

# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE



(UGC-AUTONOMOUS INSTITUTION).  
Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu  
[www.mits.ac.in](http://www.mits.ac.in) [www.mits.edu](http://www.mits.edu)



**Ref:** MITS/MPL/DU/2024/01

Date: 12<sup>th</sup> January 2024

To  
The Secretary  
University Grants Commission (UGC)  
Bahadur Shah Zafar Marg,  
New Delhi - 110002

Respected Sir,

**Sub:** MITS, Madanapalle – Submission of Detailed Project Report for MITS Deemed to be University – Reg.

\* \* \*

We hereby submit the Detailed Project Report as part of our Application for “MITS Deemed to be University”. In this connection, we would like to submit that due to restrictions of 5 MB, **we have not been able to attach all the 81 Annexures as referred in the body of the Detailed Project Report.**


However, we **have attached 17 Annexures** comprising of first and last page of the document (due to space constraint) which we thought is **more pertinent** to substantiate our view point. We hereby undertake that all the Annexures will be presented at the time of Physical verification and / or personal presentation.

Further, we have made a payment of **Rs. 22,00,011/-** (Rupees Twenty Two Lakhs and Eleven only) towards requisite fee as per the UGC Guidelines.

We shall be much grateful if you kindly consider the same.

Thanking You.

Secretary & Correspondent  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE 517 325

  
Dr. N. Vijay Bhaṣkar Choudary  
Secretary & Correspondent

  
Dr. C. Yuvaraj  
Principal  
Principal  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE

# DETAILED PROJECT REPORT

## MIT S

### DEEMED TO BE UNIVERSITY



January 2024

Angallu, Madanapalle-Kadiri Road, NH-42 [old NH-205]

Madanapalle- 517325, Andhra Pradesh, India.

[www.mits.ac.in](http://www.mits.ac.in)

  
Principal  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE

  
Secretary & Correspondent  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE 517 325

**Madanapalle Institute of Technology & Science (MITS)**  
**A Detailed Project Report (DPR) for**  
**Approval of the Deemed to be University**

**The Table of Contents**

Ref No	Ref Sub No	Contents	<u>Page No</u>
<b>Chapter I: Deemed to be University</b>			
<b>1.0</b>		<b>Executive Summary</b>	<b>1</b>
<b>2.0</b>		<b>The Location and the value proposition of the University</b>	<b>2</b>
	<b>2.1</b>	The University Value Proposition	<b>2</b>
	<b>2.2</b>	The Location proposition vis a vis the State of Andhra Pradesh	<b>3</b>
<b>3.0</b>		<b>Introduction to the Project: The Background and Rationale</b>	<b>5</b>
	<b>3.1</b>	Introduction	<b>5</b>
	<b>3.2</b>	Background	<b>6</b>
	<b>3.3</b>	Rationale	<b>8</b>
	<b>3.4</b>	IT Hub- Bengaluru: (115 Km from the proposed University)	<b>8</b>
	<b>3.5</b>	IT Hub- Chennai: (240 Km from the proposed University)	<b>8</b>
	<b>3.6</b>	IT Hub- Hyderabad: (540 Km from the proposed University)	<b>9</b>
	<b>3.7</b>	Core Industrial Hubs around, Tirupati (120 Km), Kalahasti (140 Km), Anantapur (160 Km), and SriCity (160 Km)	<b>9</b>
	<b>3.8</b>	Niche programs to develop the economy of the State of Andhra Pradesh	<b>9</b>
<b>4.0</b>		<b>Vision and Mission statements</b>	<b>10</b>
	<b>4.1</b>	Vision Statement	<b>10</b>
	<b>4.2</b>	Mission Statement	<b>10</b>
	<b>4.3</b>	A Unique Proposition	<b>10</b>
<b>5.0</b>		<b>Key stakeholders and their roles</b>	<b>12</b>

	<b>5.1</b>	Students	<b>12</b>
	<b>5.2</b>	Parents	<b>12</b>
	<b>5.3</b>	Faculty	<b>12</b>
	<b>5.4</b>	Administrators	<b>13</b>
	<b>5.5</b>	Government Bodies	<b>13</b>
	<b>5.6</b>	Employers	<b>14</b>
	<b>5.7</b>	Alumni	<b>14</b>
	<b>5.8</b>	Other Stakeholders	<b>14</b>
	<b>5.9</b>	Key Documents	<b>14</b>
<b>6.0</b>		<b>Objectives and Goals of the University</b>	<b>16</b>
	<b>6.1</b>	Objectives	<b>16</b>
	<b>6.2</b>	Goals	<b>17</b>
<b>7.0</b>		<b>The Proposal: The fifteen Year Plan</b>	<b>18</b>
	<b>7.1</b>	Overview of the MITS Deemed to be University Project	<b>18</b>
	<b>7.2</b>	Phase 1 – Building a Foundation. Years 1-5	<b>18</b>
	<b>7.3</b>	Phase 2 – Enhancing the Infrastructure. Years 6-10	<b>20</b>
	<b>7.4</b>	Phase 3 – International Preeminence. Years 11-15	<b>21</b>
<b>8.0</b>		<b>Details of Academic Programs for the next five years</b>	<b>22</b>
	<b>8.1</b>	New Academic Programs with Intake	<b>22</b>
	<b>8.2</b>	Additional Intake for Existing Programs	<b>23</b>
	<b>8.3</b>	Combined Intake (New and Existing)	<b>23</b>
<b>9.0</b>		<b>NEP, Academic Bank of Credits and Curriculum Design &amp; Development</b>	<b>24</b>
	<b>9.1</b>	National Education Policy	<b>24</b>
	<b>9.2</b>	Academic Bank of Credits	<b>25</b>
	<b>9.3</b>	Curriculum Design & Development	<b>25</b>
<b>10.0</b>		<b>Infrastructure and Facilities: Over the next Five years</b>	<b>25</b>
	<b>10.1</b>	Location analysis and selection criteria	<b>25</b>
	<b>10.2</b>	Land Requirement and acquisition plan	<b>26</b>
	<b>10.3</b>	Design and layout of the campus	<b>26</b>
	<b>10.4</b>	Facilities such as Classrooms, Libraries, Labs, Dormitories, etc.	<b>26</b>
	<b>10.5</b>	Infrastructure Details – Under Construction	<b>26</b>

	<b>10.6</b>	<b>KK Block and NPN Blocks (New Construction)</b>	<b>26</b>
<b>11.0</b>		<b>Financial Planning: Over next 5 years</b>	<b>27</b>
	<b>11.1</b>	Cost estimation for infrastructure, facilities, and development	<b>27</b>
	<b>11.2</b>	Proposed Fee Structure	<b>27</b>
	<b>11.2a</b>	Program wise Intake and Fee: 2024-25	<b>27</b>
	<b>11.2b</b>	Program wise Intake and Fee: 2025-26	<b>28</b>
	<b>11.2c</b>	Program wise Intake and Fee: 2026-27	<b>29</b>
	<b>11.2d</b>	Program wise Intake and Fee: 2027-28	<b>30</b>
	<b>11.2e</b>	Program wise Intake and Fee: 2028-29	<b>31</b>
	<b>11.3</b>	Revenue model (tuition fees, grants, donations, etc.)	<b>33</b>
	<b>11.4</b>	Fund Allocation for Welfare Measures	<b>36</b>
	<b>11.5</b>	Funding Sources	<b>37</b>
		<b>Market Factors</b>	
<b>12.0</b>		<b>Market Analysis</b>	<b>38</b>
	<b>12.1</b>	Demand for higher education in the region	<b>39</b>
	<b>12.2</b>	Analysis of existing Universities & other competitors	<b>38</b>
	<b>12.3</b>	Other nearby Universities within 150 km radius	<b>39</b>
	<b>12.4</b>	Identification of target audience and their needs	<b>40</b>
<b>13.0</b>		<b>Risk Assessment and Mitigation</b>	<b>40</b>
	<b>13.1</b>	Identification of potential Risks and Challenges	<b>40</b>
<b>14.0</b>		<b>Strategies to Mitigate Risks</b>	<b>42</b>
	<b>14.1</b>	Mitigating Risks	<b>42</b>
	<b>14.2</b>	Financial Risks	<b>42</b>
	<b>14.2a</b>	Diversify Funding Sources	<b>42</b>
	<b>14.2b</b>	Financial Planning: Current	<b>43</b>
<b>15.0</b>		<b>Reputation and Credibility</b>	<b>44</b>
	<b>15.1</b>	Quality Assurance	<b>44</b>
<b>16.0</b>		<b>Transparency and Communication</b>	<b>44</b>
<b>17.0</b>		<b>Accreditation and Compliance</b>	<b>45</b>

<b>18.0</b>		<b>Recruitment and Retention</b>	<b>45</b>
	18.1	Faculty and Staff Development	<b>45</b>
<b>19.0</b>		<b>Student Support Services</b>	<b>46</b>
<b>20.0</b>		<b>Engagement and Community Building:</b>	<b>47</b>
<b>21.0</b>		<b>Operational Challenges</b>	<b>47</b>
	21.1	Risk Management Policies	<b>47</b>
<b>22.0</b>		<b>Technology Infrastructure</b>	<b>48</b>
<b>23.0</b>		<b>Sustainable Growth</b>	<b>49</b>
<b>24.0</b>		<b>Market and Competition</b>	<b>50</b>
	24.1	Market Research	<b>50</b>
<b>25.0</b>		<b>Differentiation Strategy</b>	<b>51</b>
<b>26.0</b>		<b>Adaptability and Innovation</b>	<b>52</b>
<b>27.0</b>		<b>Implementation plan</b>	<b>53</b>
<b>28.0</b>		<b>Resource allocation and project management</b>	<b>54</b>
<b>29.0</b>		<b>Marketing, Outreach and social media</b>	<b>55</b>
	29.1	Branding and marketing strategy	<b>55</b>
	29.2	Identify Unique Selling Proposition (USP)	<b>55</b>
	29.3	Target Audience	<b>55</b>
	29.4	Compelling Brand Story	<b>55</b>
	29.5	Consistent Brand Identity	<b>56</b>
	29.6	Marketing and social media	<b>56</b>
	29.7	Digital Presence and Search Engine Optimization (SEO)	<b>56</b>
	29.8	Events and Campus Tours	<b>56</b>
	29.9	Engage with Alumni and Current Students	<b>56</b>

	<b>29.10</b>	Partnerships and Collaborations	<b>57</b>
	<b>29.11</b>	Measure and Adjust	<b>57</b>
		<b>Monitoring and Evaluation</b>	
<b>30.0</b>		<b>Monitoring and evaluation mechanisms</b>	<b>57</b>
	<b>30.1</b>	Academic Programs: Course Evaluations	<b>57</b>
	<b>30.2</b>	Graduate Surveys	<b>58</b>
	<b>30.3</b>	Program Reviews	<b>58</b>
<b>31.0</b>		<b>Research and Innovation</b>	<b>59</b>
	<b>31.1</b>	Research output tracking	<b>59</b>
	<b>31.2</b>	Impact assessment	<b>60</b>
<b>32.0</b>		<b>Student Performance and Support Services</b>	<b>60</b>
	<b>32.1</b>	Retention Rates	<b>60</b>
	<b>32.2</b>	Advising and counseling assessments	<b>60</b>
<b>33.0</b>		<b>Institutional Effectiveness</b>	<b>60</b>
	<b>33.1</b>	Strategic plan assessments	<b>60</b>
	<b>33.2</b>	Key performance indicators (KPIs)	<b>60</b>
<b>34.0</b>		<b>Teaching and Learning</b>	<b>61</b>
<b>35.0</b>		<b>Evaluation Mechanisms</b>	<b>61</b>
<b>36.0</b>		<b>External Reviews and Accreditation</b>	<b>61</b>
<b>37.0</b>		<b>Data Analysis</b>	<b>61</b>
<b>38.0</b>		<b>Continuous Improvement</b>	<b>62</b>
	<b>38.1</b>	Action Plans	<b>62</b>
	<b>38.2</b>	Benchmarking	<b>62</b>
	<b>38.3</b>	Iterative Process	<b>62</b>
		<b>Strategies</b>	
<b>39.0</b>		<b>Strategies to adopt for the growth of the MITS deemed to be University</b>	<b>63</b>

<b>39.1</b>	SWOC Analysis	<b>63</b>
<b>39.2</b>	Curriculum alignment for Academic Excellence	<b>66</b>
<b>39.3</b>	Create a learning environment conducive to student success	<b>66</b>
<b>39.4</b>	Recruit and retain a nationally/internationally recognized diverse, learning-centered faculty and staff	<b>66</b>
<b>39.5</b>	Research and Innovation	<b>67</b>
<b>39.6</b>	Proposed Research Centres	<b>67</b>
<b>39.7</b>	Build a national and international research reputation.	<b>69</b>
<b>39.8</b>	Foster discovery at all levels in the educational pipeline	<b>69</b>
<b>39.9</b>	Translate research and development efforts into jobs, new products and economic development throughout the nation	<b>69</b>
<b>39.10</b>	Community Engagement	<b>70</b>
<b>39.11</b>	Infuse community engagement into the curriculum for all programs	<b>70</b>
<b>39.12</b>	Establish MITS's presence within our region and nation in ways that improve the communities we serve	<b>70</b>
<b>39.13</b>	Offshore / Off-Campuses	<b>70</b>
<b>39.14</b>	Facilitate the adoption of MITS as the "region's" University. In later phases MITS will be the "nation's" University. MITS Deemed to be University will in the top 50 of the world's young Universities, below 50 years of existence	<b>70</b>
<b>39.15</b>	Organizational Excellence	<b>71</b>
<b>39.16</b>	Establishment of Online Technology Platform for promoting value added courses, audit courses and certification courses for the students, faculty and working professionals	<b>71</b>
<b>39.17</b>	Encourage and support faculty and staff professional development and wellness programs.	<b>73</b>
<b>39.18</b>	Enhance fiscal and operational effectiveness	<b>73</b>
<b>39.19</b>	Generate increased revenue	<b>74</b>
<b>39.20</b>	Infrastructure Relevance	<b>74</b>
<b>39.21</b>	Enhance the effectiveness of facilities/technology investments	<b>74</b>
<b>39.22</b>	Establish and enhance strong fiscal oversight	<b>74</b>
<b>39.23</b>	Establish a system of shared governance	<b>74</b>
<b>39.24</b>	Expected outcomes and Benefits	<b>74</b>



		<b>Operational</b>	
<b>40.0</b>		<b>Recruitment plan for students and faculty</b>	<b>75</b>
	40.1	Student Admission	<b>75</b>
	40.2	Action Plans: Establish Admission Criteria	<b>75</b>
	40.3	Marketing, Outreach and Social Media	<b>76</b>
	40.4	Online Application System	<b>76</b>
	40.5	Admission Counselling	<b>76</b>
	40.6	Admissions Committee	<b>76</b>
	40.7	Orientation and on boarding	<b>77</b>
	40.8	Feedback and Continuous Improvement	<b>77</b>
	40.9	Compliance and Reporting	<b>77</b>
	40.10	Intake & Reservation policy	<b>77</b>
<b>41.0</b>		<b>Faculty Recruitment</b>	<b>78</b>
	41.1	Recruitment plan for Faculty	<b>78</b>
	41.2	Action Plans	<b>79</b>
		<b>Outreach</b>	
<b>42.0</b>		<b>Community engagement initiatives Education and outreach programs: K-12 Education Partnerships</b>	<b>80</b>
<b>43.0</b>		<b>Continuing Education for Adults</b>	<b>80</b>
<b>44.0</b>		<b>Health and Wellness Initiatives</b>	<b>80</b>
<b>45.0</b>		<b>Cultural and Arts Initiatives</b>	<b>81</b>
	45.1	Arts Galleries and Exhibitions	<b>81</b>
	45.2	Performing Arts Events	<b>82</b>
<b>46.0</b>		<b>Research and Innovation</b>	<b>82</b>
	46.1	Community-based research	<b>82</b>
	46.2	Incubators and innovation Hubs	<b>82</b>
<b>47.0</b>		<b>Volunteerism and Service Learning</b>	<b>83</b>
<b>48.0</b>		<b>Economic Development and Support</b>	<b>83</b>

<b>49.0</b>		<b>Environmental Sustainability</b>	<b>84</b>
<b>50.0</b>		<b>Clean-Up campaigns</b>	<b>84</b>
<b>51.0</b>		<b>Community Engagement Processes</b>	<b>84</b>
	<b>51.1</b>	Partnership and collaboration Needs assessment	<b>84</b>
	<b>51.2</b>	Engagement Events	<b>85</b>
	<b>51.3</b>	Impact assessment	<b>85</b>
<b>52.0</b>		<b>Regulatory and Compliance Aspects</b>	<b>85</b>
<b>53.0</b>		<b>Conclusions</b>	<b>86</b>
	<b>53.1</b>	MITS is UGC-approved autonomous Institution	<b>86</b>
	<b>53.2</b>	The Next Step	<b>86</b>
	<b>53.3</b>	Action Plan	<b>87</b>
<b>54</b>		Consultant	<b>88</b>

<b>Chapter II: - MITS the Autonomous Institution</b>			
<b>0.0</b>		<b>Preamble</b>	<b>89</b>
<b>1.0</b>		<b>Governance and Organizational Structure</b>	<b>90</b>
	<b>1.1</b>	Organizational chart and Hierarchy	<b>90</b>
	<b>1.2</b>	Roles and Responsibilities of various Departments	<b>91</b>
	<b>1.3</b>	Governing Body	<b>91</b>
	<b>1.4</b>	Governing Body Members: (Academic Year 2023-24 onwards)	<b>93</b>
<b>2.0</b>		<b>Authorities of the Autonomous Institution</b>	<b>94</b>
	<b>2.1</b>	Academic Council	<b>94</b>
	<b>2.2</b>	Members of Academic Council	<b>95</b>
	<b>2.3</b>	Finance Committee	<b>96</b>
	<b>2.4</b>	Boards of Studies	<b>97</b>
<b>3.0</b>		<b>Other bodies of the Autonomous Institute</b>	<b>98</b>
	<b>3.1</b>	Institute Academic Committee	<b>98</b>
	<b>3.2</b>	Research Advisory Board	<b>98</b>
	<b>3.3</b>	Internal Quality Assurance Cell (IQAC)	<b>99</b>
	<b>3.4</b>	Purchase Committee	<b>100</b>
	<b>3.5</b>	Examination Committee	<b>100</b>
	<b>3.6</b>	Departmental Advisory Board	<b>100</b>
	<b>3.7</b>	Internal Department Committee	<b>101</b>
	<b>3.8</b>	Library & Information Resource Centre Committee	<b>101</b>
	<b>3.9</b>	Grievance Redressal Committee	<b>102</b>
	<b>3.10</b>	Anti-Ragging Committee	<b>102</b>
	<b>3.11</b>	Disciplinary Committee	<b>102</b>
	<b>3.12</b>	Editorial Board, MITS, The Annual Magazine	<b>103</b>
	<b>3.13</b>	Extra-Curricular & Co-Curricular Committee	<b>103</b>
	<b>3.14</b>	Sports Committee	<b>103</b>
	<b>3.15</b>	Training & Placement Committee	<b>104</b>
	<b>3.16</b>	Hostel Committee	<b>104</b>
	<b>3.17</b>	Alumni Coordination Committee	<b>105</b>
	<b>3.18</b>	Industry Institute Interaction Committee	<b>106</b>

	<b>3.19</b>	Canteen Committee	<b>106</b>
	<b>3.20</b>	SC & ST Cell	<b>107</b>
	<b>3.21</b>	Minority Cell	<b>107</b>
	<b>3.22</b>	Internal complaints committee	<b>107</b>
	<b>3.23</b>	Prevention of sexual harassment cell	<b>107</b>
	<b>3.24</b>	Committee for the welfare of differently abled persons	<b>109</b>
<b>4.0</b>		<b>Policies and Procedures for Governance</b>	<b>109</b>
<b>5.0</b>		<b>Current Infrastructure and Facilities:</b>	<b>111</b>
	<b>5.1</b>	Location analysis and selection Criteria	<b>111</b>
	<b>5.2</b>	Land requirement and acquisition plan	<b>112</b>
	<b>5.3</b>	Name of the Deed Holder	<b>112</b>
	<b>5.4</b>	The Design and layout of the campus	<b>114</b>
	<b>5.5</b>	Sports Facility	<b>115</b>
	<b>5.6</b>	Library	<b>115</b>
	<b>5.7</b>	Digital facilities at MITS	<b>116</b>
	<b>5.8</b>	Health Care	<b>117</b>
	<b>5.9</b>	Transport Facility	<b>118</b>
	<b>5.10</b>	MITS Radio 90.8 MHz	<b>118</b>
	<b>5.11</b>	Safety and Security	<b>118</b>
	<b>5.12</b>	Green Initiatives	<b>119</b>
	<b>5.13</b>	Rainwater harvesting structures and utilization in the campus	<b>120</b>
	<b>5.14</b>	Alternate energy sources	<b>120</b>
	<b>5.15</b>	Solid waste management	<b>120</b>
	<b>5.16</b>	Liquid waste management	<b>121</b>
	<b>5.17</b>	e-waste management	<b>121</b>
	<b>5.18</b>	Disaster preparedness	<b>121</b>
<b>6.0</b>		<b>Financial Planning</b>	<b>122</b>
<b>7.0</b>		<b>Academic Programs</b>	<b>125</b>
<b>8.0</b>		<b>Academic Departments and Disciplines</b>	<b>127</b>
<b>9.0</b>		<b>Current Research &amp; Development Cell</b>	<b>128</b>

<b>10.0</b>		<b>Current Student Holistic Development Activities</b>	<b>129</b>
	<b>10.1</b>	Value Based Education	<b>130</b>
	<b>10.2</b>	Student Career preparation, Placements, Higher Education	<b>130</b>
	<b>10.3</b>	Skill Development Centre	<b>131</b>
	<b>10.4</b>	Skill Oriented Courses	<b>131</b>
	<b>10.5</b>	Microsoft upskilling Programs	<b>131</b>
	<b>10.6</b>	Massive Open Online Courses (MOOCS)	<b>132</b>
	<b>10.7</b>	Soft Skills Programs	<b>133</b>
	<b>10.8</b>	Technical Skill Development	<b>133</b>
	<b>10.9</b>	Outreach Activities	<b>133</b>
	<b>10.9a</b>	National Cadet Corps (NCC)	<b>133</b>
	<b>10.9b</b>	National Service Scheme (NSS)	<b>134</b>
	<b>10.10</b>	Rural Immersion Programs	<b>136</b>
	<b>10.11</b>	Physical Education	<b>137</b>
	<b>10.12</b>	Extra-Curricular activities: Student Clubs	<b>138</b>
	<b>10.13</b>	Extra-Curricular activities: Techno Fest	<b>138</b>
	<b>10.14</b>	Minor and Honors Program	<b>138</b>
	<b>10.15</b>	Choice Based Credit System	<b>139</b>
	<b>10.16</b>	Implementation of ABC	<b>140</b>
	<b>10.17</b>	Implementation of NEP	<b>140</b>
	<b>10.18</b>	Multidisciplinary Programs	<b>141</b>
<b>11.0</b>		<b>Quality Initiatives</b>	<b>143</b>
	<b>11.1</b>	Internal Quality Assurance Cell (IQAC)	<b>143</b>
	<b>11.2</b>	Internal Quality Assurance Cell: A diagrammatic Representation	<b>143</b>
	<b>11.3</b>	The working details: (IQAC)	<b>144</b>
	<b>11.4</b>	Curriculum enrichment: (IQAC)	<b>144</b>
	<b>11.5</b>	Distinctive features added	<b>144</b>
	<b>11.6</b>	Periodical Review	<b>144</b>
	<b>11.7</b>	Curriculum Design and Development	<b>145</b>
	<b>11.8</b>	Technical Education Quality Improvement Program (TEQIP)	<b>147</b>
	<b>11.9</b>	ISO Initiatives	<b>147</b>
	<b>11.10</b>	Quality Initiatives 2022-23	<b>148</b>

<b>12.0</b>		<b>Conduct of Examinations</b>	<b>149</b>
	<b>12.1</b>	Student centric features	<b>149</b>
	<b>12.2</b>	Internal Evaluation	<b>150</b>
	<b>12.3</b>	Mid Term Test	<b>150</b>
	<b>12.4</b>	Assignments	<b>150</b>
	<b>12.5</b>	Conduction of End Semester Theory Examinations	<b>150</b>
	<b>12.6</b>	Conduction of Examinations	<b>151</b>
	<b>12.7</b>	End Semester Examination (Laboratory Courses)	<b>152</b>
	<b>12.8</b>	End Semester Examination Viva-Voce	<b>152</b>
	<b>12.9</b>	Malpractice Committee	<b>153</b>
	<b>12.10</b>	Assessment and Evaluation: Question Paper Pattern	<b>153</b>
	<b>12.11</b>	Computation of Final Mid-term Test Marks	<b>155</b>
	<b>12.12</b>	Procedure for Evaluation of End Semester Examination (Theory Courses)	<b>155</b>
	<b>12.13</b>	Conduct of Spot Valuation	<b>156</b>
	<b>12.14</b>	Preparation of Statement of Marks	<b>156</b>
	<b>12.15</b>	Computation of Letter grade, SGPA, CGPA and Results Declaration	<b>157</b>
	<b>12.16</b>	Regulations for MOOCs	<b>157</b>
	<b>12.17</b>	Grade classification and point system	<b>159</b>
	<b>12.18</b>	Grading System	<b>159</b>
	<b>12.19</b>	UG Programs: Conversion of Marks to Grade Point & Letter Grade	<b>159</b>
	<b>12.20</b>	Computation of SGPA and CGPA	<b>161</b>
	<b>12.21</b>	The SGPA Calculation	<b>161</b>
	<b>12.22</b>	Cumulative Grade Point Average (CGPA) Calculation	<b>161</b>
	<b>12.23</b>	Award of Class UG Programs	<b>162</b>
	<b>12.24</b>	Declaration of Results	<b>163</b>
<b>13.0</b>		<b>Use of ICT in Examination Section</b>	<b>164</b>
<b>14.0</b>		<b>Re-Totaling / Re-Counting</b>	<b>164</b>
	<b>14.1</b>	Post-Examination Moderation	<b>164</b>
	<b>14.2</b>	Moderation of Marks	<b>165</b>
	<b>14.3</b>	General Moderation	<b>165</b>
	<b>14.4</b>	Special Moderation	<b>165</b>

	<b>14.5</b>	Grade Card / PC / CMG	<b>166</b>
	<b>14.6</b>	Award of Ranks	<b>166</b>
<b>15.0</b>		<b>Faculty Recruitment Strategy</b>	<b>167</b>
	<b>15.1</b>	Staff Recruitment Policy	<b>168</b>
	<b>15.2</b>	Pay Structure	<b>168</b>
	<b>15.3</b>	Faculty Development Initiatives	<b>169</b>
	<b>15.4</b>	Programs organized	<b>169</b>
	<b>15.5</b>	Organizing of Conferences and Seminars	<b>170</b>
<b>16.0</b>		<b>Welfare Measures</b>	<b>171</b>
	<b>16.1</b>	Hospitalization Benefits	<b>171</b>
	<b>16.2</b>	Leave Benefits	<b>171</b>
	<b>16.3</b>	Other welfare Benefits	<b>171</b>
	<b>16.4</b>	Professional Enhancement Benefits	<b>171</b>
<b>17.0</b>		<b>Collaboration with Industry / Other Institutions</b>	<b>172</b>
	<b>17.1</b>	Collaboration with Industry	<b>172</b>
	<b>17.2</b>	Collaboration with Other Institutions	<b>172</b>
<b>18.0</b>		<b>International Collaborations</b>	<b>174</b>
	<b>18.1</b>	Asia University, Taiwan	<b>174</b>
	<b>18.2</b>	BRNO University of Technology, Czech Republic	<b>176</b>
<b>19.0</b>		<b>International MoU's Outcome</b>	<b>176</b>
	<b>19.1</b>	International MoUs signed	<b>177</b>
<b>20.0</b>		<b>Consultancy</b>	<b>177</b>
	<b>20.1</b>	Consolidated year wise details of consultancy projects executed in the last 5 years:	<b>178</b>
<b>21.0</b>		<b>Management Development Programs (MDPs)</b>	<b>178</b>
	<b>21.1</b>	MDPs Conducted	<b>178</b>
	<b>21.2</b>	Entrepreneurship Initiatives	<b>178</b>
<b>22.0</b>		<b>Concluding Remarks</b>	<b>179</b>

<b>23.0</b>		<b>List of Tables</b>	<b>181</b>
<b>24.0</b>		<b>List of Figures</b>	<b>183</b>
<b>25.0</b>		<b>List of Annexures</b>	<b>184</b>



**Madanapalle Institute of Technology & Science (MITS)**  
**A Detailed Project Report (DPR) for**  
**Approval of a Deemed to be University**

		<b>Chapter I: Deemed to be University</b>	
<b>1.0</b>		<b>Executive Summary</b>	
		<p>Madanapalle Institute of Technology &amp; Science (MITS) is a pioneering institution aimed at revolutionizing higher education. Our vision is to create a world-class educational platform that fosters innovation, diversity, and excellence. Founded on the principles of academic rigor, holistic learning, and societal impact, MITS seeks to redefine the landscape of education by providing an unparalleled experience for students, faculty, and the community.</p> <p><b>Key Objectives:</b></p> <ol style="list-style-type: none"> <li>1. <b>Academic Excellence:</b> Establish rigorous academic programs spanning various disciplines, designed to meet evolving industry needs and global challenges.</li> <li>2. <b>Innovation Hub:</b> Foster an environment that encourages creativity, entrepreneurship, and interdisciplinary collaboration, facilitating groundbreaking research and technological advancements.</li> <li>3. <b>Diversity and Inclusivity:</b> Embrace diversity in all forms and create an inclusive campus culture that celebrates unique perspectives and experiences.</li> <li>4. <b>Community Engagement:</b> Forge strong partnerships with local and global communities, promoting civic engagement, social responsibility, and sustainable practices.</li> <li>5. <b>State-of-the-Art Infrastructure:</b> Develop modern infrastructure and cutting-edge facilities to support both academic and extracurricular activities, ensuring an enriching student experience.</li> </ol> <p><b>Differentiators:</b></p> <ol style="list-style-type: none"> <li>1. <b>Interdisciplinary Approach:</b> Integrating various disciplines to address complex real-world problems.</li> <li>2. <b>Experiential Learning:</b> Providing hands-on</li> </ol>	

		<p>experiences, internships, and industry collaborations to complement classroom education.</p> <p>3. <b>Faculty Expertise:</b> Attracting and retaining top-tier faculty renowned for their expertise and commitment to teaching and research.</p> <p>4. <b>Financial Strategy:</b> The MITS Deemed to be University will have a sustainable financial model that combines diverse revenue streams, including tuition, research grants, philanthropic contributions, and partnerships with corporate entities.</p> <p>The MITS Deemed to be University aspires to set a new standard in higher education by fostering a culture of innovation, intellectual inquiry, and social responsibility. Through a commitment to excellence, inclusivity, and forward-thinking initiatives, we aim to shape future leaders and change-makers. This summary encapsulates the fundamental aspects of our proposed new University, highlighting its mission, objectives, unique selling points, financial strategies, and overarching vision.</p>	
<b>2.0</b>		<b>The Location and the value proposition of the University</b>	
	<b>2.1</b>	<p><b>The University Value Proposition</b></p> <p>The value proposition of a University in Andhra Pradesh lies in its ability to provide a holistic, enriching educational experience that prepares individuals for their careers, fosters personal growth, and contributes to the advancement of knowledge and society.</p> <p>The University will lay emphasis on</p> <p><b>Education and Learning:</b> Universities provide high-quality education, offering a diverse range of programs and courses. They employ experienced faculty, provide access to resources like libraries, laboratories, and cutting-edge technology, and offer opportunities for hands-on learning.</p> <p><b>Research and Innovation:</b> Many universities conduct extensive research across various fields. They contribute</p>	

		<p>to advancements in science, technology, humanities, and more. Students have the chance to engage in research, fostering critical thinking and innovation.</p> <p><b>Networking and Connections:</b> Universities often serve as hubs for networking, connecting students with peers, professors, alumni, and professionals in their field. This networking can lead to internships, job opportunities, collaborations, and mentorships.</p> <p><b>Personal Development:</b> Beyond academics, universities foster personal growth by encouraging extracurricular activities, leadership opportunities, and a diverse community that exposes students to different cultures and perspectives.</p> <p><b>Credentialing and Career Opportunities:</b> A degree from a reputable University can significantly enhance career prospects. Universities often have career services departments that assist students in job placement, internships, and career development.</p> <p><b>Community Engagement:</b> Many universities actively engage with the local community through outreach programs, volunteer work, and partnerships, contributing positively to societal development.</p> <p><b>Alumni Network:</b> Universities often boast extensive alumni networks, providing ongoing support, mentorship, and professional connections to graduates even after they leave the institution.</p>	
	2.2	<p><b>The Location proposition vis a vis the State of Andhra Pradesh</b></p> <p>The State of Andhra Pradesh is one of the fastest growing States in the country. Madanapalle, located in the erstwhile District of Chittoor, is fast growing and a potential Education hub, and a prospective place for cutting edge Research &amp; Industry.</p> <p>Madanapalle is the largest city in Annamayya district</p>	

and Rajampet Lok Sabha constituency of the state of Andhra Pradesh. Madanapalle is the biggest tomato market in Asia and also famous for silk and silk products.

**Andhra Pradesh** has a higher concentration of science and engineering graduates in Southern India that is attracting the world's leading technological companies to set up software developments centres in Bengaluru, Chennai and Hyderabad.

Presently there are around 400 colleges offering professional courses with a combined intake of around 3.3 lakh Under Graduate seats in the state of Andhra Pradesh.

After the State was bifurcated, from the combined Andhra Pradesh it is focusing on the establishment of industries in and around Rayalaseema. The skill development agencies and incubating institutions are being established in and around Chittoor District. The State Government has been encouraging quality education in general and technical education in particular by insisting on standards/norms as per the norms of statutory bodies. Every year around five Lakh Intermediate/10+2 qualified and its equivalent qualified students are passing from its institutions.

A large number of students from Andhra Pradesh State are giving preference to join in reputed institutions like IITs, NIITs and other Universities in the nearby states. Hence there is a dearth for the reputed institutions which offer quality education in Engineering / Science, Management and many other disciplines.

The MITS Deemed to be University will be known for its Teaching, priority to Research and Excellency in offering Engineering / Science and Management as MITS has been doing for the past 25 years. Currently it is autonomous.

It is well connected to major cities nearby. On a daily basis there are flights that operate at Bengaluru

		<p>International Airport. IndiGo, SpiceJet, Vistara, Akasha, and Air India are the most popular airline brands that fly frequently to this airport. Bengaluru Airport is 114.5 km and Chennai Airport is 248 km. Besides flying one can also reach Madanapalle by train. Madanapalle Rd is one of the most popular train stations in Madanapalle. On an average about 13 trains pass through Madanapalle on a daily basis.</p> <p>After analysing all the above facts, Madanapalle Institute of Technology &amp; Science, (MITS) with 25 years of pioneering experience is proposing to convert to a University and seeks approval for various Engineering /Science and Management and other disciplines / courses to operate as a deemed to be University.</p>	
<b>3.0</b>		<b>Introduction to the Project: The Background and Rationale</b>	
	<b>3.1</b>	<p><b>Introduction:</b> In an ever-evolving world, the significance of education as a catalyst for societal progress cannot be overstated. As we stand at the threshold of a new era characterized by rapid advancements in technology, culture, and global interconnectedness, the need for an institution that not only adapts to change but also spearheads innovation becomes paramount.</p> <p>This comprehensive project report encapsulates the vision, mission, and strategic framework for the establishment of MITS Deemed to be University, an avant-garde academic institution poised to redefine the landscape of higher education. With an unwavering commitment to excellence, innovation, and inclusivity, this report delves into the intricate planning, meticulous research, and strategic groundwork necessary for the creation of a pioneering University.</p> <p>Through extensive market analysis, consultation with educational experts, and a profound understanding of contemporary academic paradigms, this report outlines a comprehensive blueprint for the establishment of MITS</p>	

		<p>Deemed to be University. The document elucidates the core pillars that will define the ethos of the University—academic rigor, interdisciplinary collaboration, cutting-edge research, and a holistic approach to nurturing well-rounded global citizens.</p> <p>Moreover, it delineates the overarching goals, infrastructure requirements, curriculum design, faculty recruitment strategies, student outreach programs, and financial projections essential for the successful launch and sustained growth of MITS Deemed to be University. Embracing diversity in all its forms and fostering an environment that fosters critical thinking, creativity, and ethical leadership will be the cornerstone of this institution.</p> <p>As the educational landscape continues to evolve, MITS Deemed to be University. aims to emerge not just as a seat of learning but as a beacon of innovation, shaping the future by empowering individuals to think expansively, act responsibly, and lead with empathy. This project report serves as a compass guiding the journey toward realizing this ambitious endeavor—a University that stands as a testament to educational excellence, progressive thought, and societal transformation.</p>	
	3.2	<p><b>Background:</b> Madanapalle Institute of Technology &amp; Science (MITS) was established in 1998 in the picturesque backdrop of Madanapalle and is located on a sprawling 27.22-acre campus on Madanapalle – Kadiri road, NH-42 [old NH-205] near Angallu, about 10 km away from Madanapalle. MITS, originated under the auspices of Ratakonda Ranga Reddy Educational Academy under the proactive leadership of Late Sri. N. Krishna Kumar M.S. (USA), the then President and Dr. N. Vijaya Bhaskar Choudary, Ph.D., Secretary &amp; Correspondent of the Academy.</p> <p>Ratakonda Ranga Reddy Educational Academy was setup for promoting education in this region under the Society Act. The Society Registration document is attached in <b>Annexure 1</b>. MITS is governed by a</p>	

		<p>progressive management and has been striving conscientiously to develop it as one of the best centers of Academic Excellence in India.</p> <p>The Institution's profile is firmly based on strategies and action plans that match changing demands of the nation and the student fraternity. MITS enjoys support and patronage of distinguished academicians with vast experience in Engineering &amp; Management domain.</p> <p>The Institute started with 4 disciplines; Mechanical, Electrical &amp; Electronics Engineering, Electronics &amp; Communication Engineering and Computer Science &amp; Engineering and with a total intake of 180. Currently, there are eleven under graduate Programs in Engineering &amp; Technology, Master in Computer Application and Master of Business Administration with a total strength of 6873 students.</p> <p>Academic autonomy has been granted by UGC since 2014. The institute has been Accredited by NAAC with “A+” Grade (2021-26) and all the eligible programs are accredited by NBA.</p> <p>The institute is listed in 251-300 band of NIRF -2022. The Institute is ISO 9001 compliant since 2009. We have recently been audited by ISO 21001 of 2018 of TUV (SUI).</p> <p>The Civil Engineering Laboratories have been Accredited by NABL (ISO 17025:2017) for providing testing services. It is the only institute in the Rayalaseema region to have such accreditation.</p> <p>The NPTEL local Chapter of the Institute has obtained AAA rating and ranked 8th position in the Country and 2nd position in Andhra Pradesh from SWAYAM-NPTEL among 6000+ participating Institutions during July-December 2023 session.</p> <p>MITS has been Rated as “Gold Category” by AICTE CII Survey of Industry Linked Technical Institutes for the past 5 years Consecutively. The institute is registered as</p>	
--	--	---	--

		SIRO under DSIR-DST.  MoUs and Collaborations with Foreign Universities, Industries & Research Organizations are in place to facilitate global internships, higher education. MITS Radio 90.8 MHz, Community Radio Station was sanctioned by Ministry of Communications, New Delhi.	
	<b>3.3</b>	<b>Rationale</b>	
		Universities play a key role in the development of the nation as well as community by providing education, research, and innovation, which contribute to economic, social, and cultural growth.  Andhra Pradesh State Government has been encouraging quality education by maintaining the standards / norms. However, a large number of Intermediate qualified students (10+2) from Rayalaseema region of Andhra Pradesh State are migrating to other states for pursuing higher education. Therefore, to meet the higher education demand, a University needs to be established in Rayalaseema region to offer quality education.	
	<b>3.4</b>	<b>IT Hub- Bengaluru: (115 Km from the proposed University)</b>	
		It is the Silicon Valley of India and IT Capital of India. It is considered to be a global information technology hub and largest software exporter from India. The top Indian IT companies like Infosys and Wipro have headquartered in Bengaluru as are many of the global SEI-CMM Level 100 Companies like Intel, Texas Instruments, Bosch, Continental, etc. Bengaluru alone houses more than 35% of all the IT companies present in India and contains close to 5000 companies.  The students passing out from the proposed University will have ample opportunities for employment.	
	<b>3.5</b>	<b>IT Hub- Chennai: (240 Km from the proposed University)</b>	
		Chennai is the third largest exporter of IT and ITES of	



		<p>India. Almost all companies have their backup operations in Chennai. Cognizant, Syntel are major global IT service company has its Indian operations' offices in Chennai.</p> <p>The students passing out from the proposed University will have ample opportunities for employment.</p>	
	<b>3.6</b>	<b>IT Hub- Hyderabad: (540 Km from the proposed University)</b>	
		<p>Hyderabad is also a major IT hub. It is the first destination for the Microsoft development centre in India --- the largest software development centre outside of their headquarters. Hyderabad is also known as the Cyber city and houses units of many multinational corporations such as Cognizant, TCS, Infosys, Syntel, Wipro, etc.</p> <p>The students passing out from the proposed University will have ample opportunities for employment.</p>	
	<b>3.7</b>	<b>Core Industrial Hubs around, Tirupati (120 Km), Kalahasti (140 Km), Anantapur (160 Km), and SriCity (160 Km)</b>	
		<p>There are companies like AmaraRaja, Kia Motors, Foxcon having large industrial manufacturing facilities which gives ample opportunities for technically qualified skilled manpower.</p> <p>Establishment of University in Rayalaseema region of Andhra Pradesh will have the potential to make a significant contribution to rural upliftment.</p>	
	<b>3.8</b>	<b>Niche programs to develop the economy of the State of Andhra Pradesh</b>	
		<p>The MITS Deemed to be University apart from computer, IT, ITES based courses shall also conduct niche programs in various other sectors.</p> <p>The State of Andhra Pradesh offers great future employment opportunities in sectors like Ports / Airports, Roads, Rails and IWT, water grid, energy,</p>	

		<p>tourism, social infrastructure and Gas.</p> <p>There are four key industrial economic sectors, the primary sector largely raw material extraction industries such as mining and farming, the secondary sector involving refining, construction and manufacturing, the tertiary sector which deals with services (such as Law and Medicine) and distribution of manufactured goods and the quaternary sector, a relatively new type of knowledge industry focusing on technological research, design and development such as computer programming and biochemistry.</p> <p>All these sectors shall be the focus for niche programs in the proposed University over a period of time.</p> <p>Further, all the new features suggested by the National Education Policy (NEP) and the regulators like the UGC, AICTE, Council of Pharmacy, Bar Council and other regulators/councils will be implemented. .</p>	
<b>4.0</b>		<b>Vision and Mission statements</b>	
	<b>4.1</b>	<b>Vision Statement:</b> To serve our region, nation and world through academic excellence, research relevance, and community engagement while emphasizing the importance of the individuals.	
	<b>4.2</b>	<b>Mission Statement:</b> The MITS Deemed to be University is committed to providing a dynamic and inclusive learning environment that nurtures intellectual curiosity, promotes critical thinking, and cultivates ethical leadership. Our mission is to empower students with the knowledge, skills, and values necessary to thrive in a rapidly changing global society.	
	<b>4.3</b>	<b>A Unique Proposition</b> MITS is proud to be at the epicenter of discovery and innovation. At our core are a set of values that daily drive our decision making. We seek individuality, entrepreneurship, sustainability and engagement with community.	

		<p><b>Individuality</b>  The world is getting smaller every day. Technology has opened the global marketplace to business irrespective of their physical location. Some believe that “It is business; it is not personal.” We believe that from concept to ultimate use, people are critical to every aspect of the supply chain process. Since every decision ultimately affects a person, it is personal. And for businesses to be successful, they must value people: cultural and ethnic differences; family backgrounds and economic ability; geographic location; age, gender identity, and marital status.</p> <p><b>Entrepreneurialism</b>  Whether it is at the margin or through disruptive activities, progress happens when someone sees the world differently. New products, services or technologies exist when the first person sees their value. We facilitate the entrepreneurial spirit, not by teaching our students just WHAT to think, but rather, by also teaching our students HOW to think.</p> <p><b>Sustainability</b>  Recognizing how business decisions, both short-term and long-term, impact our environment is important to preserving people. The planet will survive; so we need to be ever-mindful of how business decisions impact the people on the planet. Furthermore, sustaining our operations requires us to be ever mindful of how our decisions impact our brand, our funding sources and our ability to place our students in the chosen career field. In addition, today’s research and scholarship build the foundation of tomorrow’s academic enterprise. That foundation requires us to be ever-mindful of the infrastructure – both physical and the academic freedom of our faculty and students.</p> <p><b>Community</b>  A University serves a catalyst for fostering transformative, positive change in the communities we serve. Our students, faculty and staff spend time as a member of the University community and as well as being a member of the larger, surrounding community.</p>	
--	--	--	--

		So, if we truly value our people, we must be engaged with larger community as well as the University community. We best serve our larger community by being a trusted partner, known and admired for our transparency, our expertise, our welcoming environment and our willingness to collaborate with primary and secondary education systems, business, government and not-for-profit institution	
<b>5.0</b>		<b>Key stakeholders and their roles</b>	
		Stakeholders in institute play several essential roles that contribute to the overall success and development of Institutions	
	<b>5.1</b>	<p><b>Students</b> Students are the primary stakeholders in the Institute. Their role involves:</p> <ol style="list-style-type: none"> <li>1. Seeking education and knowledge to enhance their personal and professional development.</li> <li>2. Actively participating in their learning process by engaging in classes, coursework, and academic activities.</li> <li>3. Providing feedback on curriculum, teaching methods, and institutional policies to improve the overall student experience.</li> <li>4. Contributing to campus life and community engagement activities</li> </ol>	
	<b>5.2</b>	<p><b>Parents</b> Parents are key stakeholders because they pay for their children's education. In return, they want their offspring to receive a great education that prepares them for leaving home and embarking on a career. Parents ensure they attend classes and comply with the Institute policies. They complement their children's formal education by ensuring they complete their Assignment, study for exams and follow healthy diets and sensible sleep patterns. Parents expect the institute to keep their children safe and reinforce the values taught at home.</p>	
	<b>5.3</b>	<p><b>Faculty</b></p> <ol style="list-style-type: none"> <li>1. Faculty members are at the core of the teaching, research, and academic aspects of Institute. Their</li> </ol>	

		<p>role includes:</p> <ol style="list-style-type: none"> <li>2. Delivering quality education by designing and delivering courses, conducting research, and mentoring students.</li> <li>3. Contributing to curriculum development, ensuring its relevance and alignment with industry needs.</li> <li>4. Engaging in scholarly activities, publishing Research Papers/Journals/Articles, and advancing knowledge in their respective fields.</li> </ol>	
	<b>5.4</b>	<p><b>Administrators</b> Administrators are responsible for the overall management and strategic direction of institutions. Their role includes:</p> <ol style="list-style-type: none"> <li>1. Developing institutional policies, strategic plans, and budgets.</li> <li>2. Creating a conducive learning environment that supports students and faculty.</li> <li>3. Managing academic and administrative operations, including admissions, enrollment, and student services.</li> <li>4. Ensuring compliance with regulations and accreditation standards.</li> <li>5. Building relationships with external stakeholders, including government bodies, employers, and the community.</li> </ol>	
	<b>5.5</b>	<p><b>Government Bodies</b> Government bodies at various levels, such as national or regional governments, play a significant role in Institution. Their role includes:</p> <ol style="list-style-type: none"> <li>1. Setting policies, regulations, and funding frameworks for higher education institutions.</li> <li>2. Ensuring equitable access to education and promoting affordability.</li> <li>3. Accrediting institutions and programs to maintain quality standards.</li> <li>4. Allocating financial resources to support higher education institutions and research activities.</li> <li>5. Monitoring and evaluating the performance of institutions based on predefined criteria.</li> <li>6. Providing academic advice and mentoring</li> </ol>	

		students in their educational journey.	
	<b>5.6</b>	<p><b>Employers</b> Employers are stakeholders who interact with Institutions to meet their workforce needs. Their role involves:</p> <ol style="list-style-type: none"> <li>1. Providing input on the knowledge, skills, and competencies required in the job market.</li> <li>2. Collaborating with institutions to develop curricula that align with industry demands.</li> <li>3. Offering internships, cooperative education programs, and job placement opportunities for students.</li> <li>4. Participating in advisory boards or industry partnerships to provide guidance on emerging trends and skills.</li> </ol>	
	<b>5.7</b>	<p><b>Alumni</b> Alumni play a significant role in Institutions. Their role includes:</p> <ol style="list-style-type: none"> <li>1. Mentoring current students and providing career guidance.</li> <li>2. Contributing to research, guest lectures, and industry collaborations.</li> <li>3. Supporting institutions through philanthropy, donations, and fund-raising efforts.</li> </ol>	
	<b>5.8</b>	<b>Other Stakeholders</b>	
		NGOs, Skill Development Centers, International Collaborators and others shall also be consulted and involved as may be necessary	
	<b>5.9</b>	<b>Key Documents</b>	
		<b>Annexure 2:</b> NoC from affiliating University or the application submitted for obtaining NoC.	
		An application was made to the affiliating University on ..... vide our ref no.. and a reminder letter dated ... vide our ref no... (Please refer Annexure 2)	
		<b>Annexure 3:</b> Copy of the application acknowledgment	
		Please refer Annexure A3 which is the	

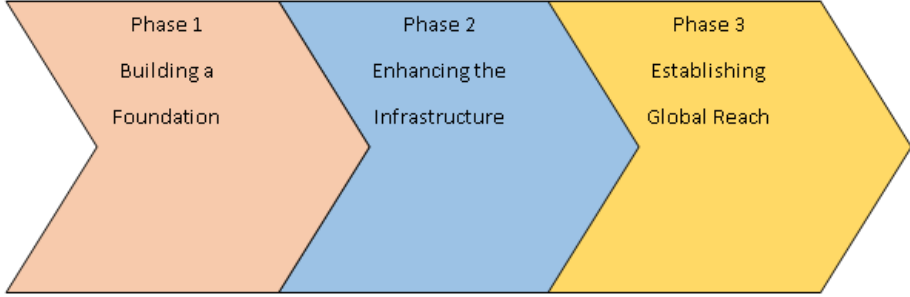
		Acknowledgement received from the University.	
		<b>Annexure4:</b> Name and contact details of Nodal Officer.	
		Please refer Annexure A4 for the details of the Nodal Officer.	
		<b>Annexure 5:</b> Name of the proposed University	
		Please refer Annexure A5 for the details of the Name of the proposed University	
		<b>Annexure 6:</b> Details of the departments which will be part of the proposed University	
		Please refer Annexure A6 for the details of the departments which will be part of the proposed University	
		<b>Annexure 7:</b> Details of the sponsoring body	
		Please refer Annexure 7 for the details of the Sponsoring Body	
		<b>Annexure 8:</b> NBA/NAAC certifications	
		Please refer Annexure 8 for the NBA / NAAC Certifications for the last three cycles.	
		<b>Annexure 9:</b> Approval of relevant statutory bodies for professional courses being offered in the institution	
		Please refer Annexure 9 for the Approval of relevant statutory bodies for professional courses being offered in the institution	
		<b>Annexure 10:</b> Details of financial sustainability (last 3 years audited financial statements)	
		Please refer Annexure 10 for the Details of financial sustainability (last 3 years audited financial statements)	
		<b>Annexure 11:</b> Undertaking of the sponsoring society abiding all provisions of the act, rules, and regulations.	
		Please refer Annexure A11 which is an undertaking of sponsoring society abiding all provisions of the act, rules, and regulations.	

		<b>Annexure 12:</b> Undertaking of the proposed institution deemed to be University abiding all provisions of the act, rules, and regulations.	
		Please refer Annexure A12 which is an undertaking of the proposed institution deemed to be University abiding all provisions of the act, rules, and regulations.	
		<b>Annexure 13:</b> Undertaking from the Principal stating that the uploaded information is correct	
		Please refer Annexure A13 which is an undertaking from the Principal stating that the uploaded information is correct	
		<b>Annexure 14:</b> The Layout of the campus and the Building Plans and Floor Plans of different facilities	
		Please see the Annexure 14 for the details of the layout of the campus and the Building Plans and Floor Plans of different facilities (Statement and Architectural drawings)	
		<b>Annexure 15:</b> Common facilities, recreational facilities, details of hostel and other amenities	
		Please see the Annexure 15 for the details of common facilities, recreational facilities, details of hostel and other amenities	
<b>6.0</b>		<b>Objectives and Goals of the University</b>	
	<b>6.1</b>	<b>Objectives</b>	
		<ol style="list-style-type: none"> <li>1. Provide for higher education leading to excellence and innovations in such branches of knowledge as may be deemed fit, primarily at undergraduate, post-graduate, and research degree levels, fully conforming to the concept of a University;</li> <li>2. Engage in areas of specialisation with proven ability to make distinctive contribution to the objectives of the higher education system in diverse discipline;</li> <li>3. Provide for high-quality teaching and research and for the advancement of knowledge and its dissemination through various research programs</li> </ol>	



		<p>under taken in-house by substantial number of full time faculty /research scholar in diverse discipline;</p> <ol style="list-style-type: none"> <li>4. Recognise, identify and foster the unique capabilities of each student, by sensitising teachers as well as parents to promote each student’s holistic development;</li> <li>5. Provide multi-disciplinary and a holistic education in the faculties of science, engineering, technology, social sciences, arts, humanities, and other disciplines;</li> <li>6. Transform into research and teaching intensive University over a period of time;</li> <li>7. Focus on research and innovation by setting up start-up incubation centers; technology development centres; centres in frontier areas of research; greater industry-academic linkages; and inter-disciplinary research;</li> <li>8. Provide flexible and innovative curriculum, which includes credit-based courses and projects in the areas of community engagement and service, environmental education, value-based education, etc.</li> <li>9. Adopt the provisions of NEP, 2020;</li> <li>10. Strengthen the research ecosystem by establishing Recognised Research Cell (RRC);</li> <li>11. Possess such academic and physical infrastructure as may specified by the UGC or the relevant statutory body, as the case may be;</li> </ol>	
	<b>6.2</b>	<b>Goals</b>	
		<p><b>Academic Excellence</b>  Create a distinctive learning experience producing graduates imbued with the knowledge and skills essential in their chosen career field, international competency, critical thinking, an appreciation for the arts, a commitment to life-long learning and the ability and willingness to lead in an ever-evolving world. Our quality will be judged not on our admission standards but on the success of our graduates and our faculty</p> <p>Besides the Academic Excellence, the University will</p>	

		also focus on Research and innovation, Startups, incubation centers, community engagement and service, and organizational excellence.	

<b>7.0</b>		<b>The Proposal :The fifteen Year Plan</b>	
<b>7.1</b>		<b>Overview of the MITS Deemed to be University Project</b>	
		 <p style="text-align: center;"><b>Fig. 1: Overview of the MITS Deemed to be University Project</b></p>	
<b>7.2</b>		<b>Phase 1 – Building a Foundation: Years 1-5</b>	
		<p>The focus during the first five years of this plan is establishing MITS’s strong academic credentials, research expertise and community connections.</p> <p>Students will attend as they know the MITS and its degrees will put them on their career path. Faculty and staff will contribute their expertise. Employers will hire our graduates as they are confident in the quality of our graduates.</p> <p>Our strong alumni association is community-based and helps in project learning in the curriculum. This is our Phase 1.</p> <p>Also, during the Phase 1, national and, to a lesser extent, international awareness of MITS will be cultivated. Establishing working relationships with universities across the nation and across the globe should begin now.</p> <p>Finding a University, college, or department with an international focus that has a connection to Bharat would be a first step.</p> <p>Over time, this will allow our students to get opportunity to study</p>	

		abroad, in addition to research collaborations and better employment.	

**Table 1: Progress in Admissions, Academics, Operations, and others (Year 1 – 5)**

Time Period	Admissions	Academics	Operations	Others
Year 1	Establish Multi-Stream Admissions Policy/Criteria/Process (Plus 2 score, Andhra Pradesh EAMCET rank, JEE rank, etc)	Convert Curricula into Flexible Credit Hour System	Establish a Center for Teaching and Learning with Infrastructure Support for monitoring student success in classroom, faculty teaching/training, and pedagogical research)	Establishment of Schools, Upgrade Department/College Names (e.g., College of Engineering, College of Computing, etc), and Leadership Positions for MITS (e.g., Vice Chancellor)
	Obtain Data Sets of plus 2 students and approach as MITS as an option	Establish Key Partnership with Potential Sister Institutions (US/UK/Asia with Top Ranking) for Curricular Adaptation, Student Exchanges, and Faculty Collaboration	Starting construction requirement for II Year	Get Industry Adjunct Faculty to Augment Skill-Based Training
	Participate in Admission Fairs	First Year Design with Community Service Projects Established	Create Institutional Data Analytics Center	Expand Industry Interaction Cell to Scan Skill-Based Training Needs and Identify Key Offerors
	Expand admission to Nighboring Regions/State as well as Select International Locations through Reputed, Approved, Consultants.	Mandatory Industry Internship/International Project Instituted	Finalize Faculty and Staff Continuous Improvement and Promotion/Recognition Policy	Update Database of Alumnae and Create Database of Key Industrial Contacts
		Academic Calendar Established to National/International Norms	Establish Office of Regulatory/Compliance	Build Engagement Plan to Involve Key Industrial Stakeholders in Campus Activities, Build a Campus Communications Plan
		Supplementary Exam System Established to Enable Fewer Carry Over of Courses to Subsequent Semesters	Modernize library to include collaboration space/ industry-academic enclave	Expand Advisory Board with Involvement of Major Industry Heads
		Engagement of Pilot Industry Faculty to teach 10% of Classes		Create staff, student and alumni awards recognition programs to highlight achievements by members of the University community.
		Expanding e-learning infrastructure to enable seamless interaction with national/international faculty teaching from remote locations		
		Expand Peer Students Mentoring for At-Risk Students		
Years 2 - 5	Create MITS Entrance Exam and Administer it to Align with Other Major Institutions and the Admissions Cycle	Expand Masters and PhD Program Offerings through Direct International Collaborations	Campus Incubator for Technology Commercialization	Conduct MITS Economic Impact Studies and Publish Periodic Reports
	Expand Admissions to Other States and International Locations	Establish Policies and Mechanisms to Assess/Expand Program Offerings	Augment the Center for Teaching and Learning	Establish a Writing Center to Help Support Students with Resume Building/Interview Preparation

		Hire Eminent and Pre-eminent Faculty	Formalize Technology Commercialization Support Programs	Create Support Center for GATE/GRE/TOEFL/CAT/GMAT Exams
		Expand Industry Faculty	Initiate Complete Construction of Campus required for III Year	Every Student has a Compelling Portfolio of Industry/Real-World Project Exposure
		Incorporate Project-Based Learning in All Undergraduate Programs	New schools Non-Engineering Support Programs	Engagement of Alumni

	<b>7.3</b>	<b>Phase 2 – Enhancing the Infrastructure. Years 6-10</b>	
		<p>Expanding MITS’s reach across the nation can occur if</p> <ol style="list-style-type: none"> <li>1. The people/businesses know about MITS,</li> <li>2. Graduates are finding jobs in their career field and where they want to live geographically, and</li> <li>3. Graduates and their families, employers and foundations all speak highly of the quality of their experiences with MITS.</li> </ol> <p>The focus during the second five years of this plan is scaling MITS’s regional success, nationally. The alumni association will have chapters in every region of the state, faculty will offer seminars addressing current needs of each region, and students will be able to complete their degree virtually; however, regular weekend residencies will help to solidify the connection between the student and the institution.</p> <p>When students reflect on their programs, rarely to they speak of the institution, the college and even the department. Students reflect on their experience, generally, with respect to faculty, staff and their student peers. For that to occur in a virtual world, face-to-face meetings are compulsory.</p>	

**Table2: Phase II -Admissions, Academics, Operations, Others**

<b>Time Period</b>	<b>Admissions</b>	<b>Academics</b>	<b>Operations</b>	<b>Others</b>
<b>Years 6-10</b>	Expand Student admissions from out of state and	Expand Centers of Excellence in Key Areas	Complete Construction of Campus	Build mechanisms to reengage alumnae/industry

	international students			leaders for interdisciplinary design projects
		Institutionalize Project-Based Learning in 50% of Classes at All Levels	Food Court	Establish a Center for Continuing Education (initially focused on training MITS graduates who are already in their mid career in industry)
		Expand International Exchange Programs for Faculty and Students at All Levels		Create infrastructure for an alumni association that can scale up as our reach expands

	<b>7.4</b>	<b>Phase 3 – International Preeminence. Years 11-15</b>	
		<p>Bringing MITS to the world and the world to MITS is the focus of Phase 3.</p> <p>During Phase 1 and, to a greater extent, Phase 2, expanding our global reach is being cultivated.</p> <p>During Phase 3, the global reach will flourish. Student teams from disparate universities will collaborate on projects with an international emphasis, research will be conducted jointly by faculty from disparate universities, students will be placed in internships domestically and internationally.</p> <p><b>Admissions in the 11 – 15 Year of the third phase</b></p> <ol style="list-style-type: none"> <li>1. Operational Educational Degree Offerings with Direct International Collaboration</li> <li>2. Good number of Faculty and Students from International Destinations</li> </ol>	

	3. 10% of Faculty are Among the Nation's Leaders in their Profession	
	4. 25% of Faculty have Industry Experience	

<b>8.0</b>	<b>Details of Academic Programs for the next five years</b>							
<b>8.1</b>	<b>New Academic Programs with Intake</b>							
	<b>Table 3: New Academic Programmes over the next five years</b>							
	<b>School</b>	<b>Branch</b>	<b>Level</b>	<b>2024-25</b>	<b>2025-26</b>	<b>2026-27</b>	<b>2027-28</b>	<b>2028-29</b>
	<b>School of Engineering</b>	<b>VLSI Design</b>	PG	30	-	-	-	-
		<b>Automation &amp; Robotics</b>	UG	-	-	-	120	-
		<b>Biotechnology</b>	UG	-	-	-	120	-
		<b>Advanced Manufacturing Systems</b>	PG	-	-	-	-	30
		<b>Electrical Power Systems</b>	PG	-	-	-	-	30
		<b>Structural Engineering</b>	PG	-	-	-	-	30
	<b>School of Computing</b>	<b>Computer Science &amp; Engineering</b>	PG	30	-	-	-	-
		<b>Doctoral Programs</b>	Ph.D	-	10	10	-	10
		<b>M. Sc., Computer Science</b>	PG	-	60	-	-	-
		<b>B. Sc., Computer Science</b>	UG	-	-	240	-	-
	<b>School of Pharmacy</b>	<b>B. Pharmacy</b>	UG	-	180	-	-	-
	<b>School of Education</b>	<b>B. A., Ed.,</b>	UG	-	120	-	-	-
		<b>B. Sc., Ed.,</b>	UG	-	120	-	-	-
		<b>B. Com., Ed.,</b>	UG	-	120	-	-	-
	<b>School of Management</b>	<b>Bachelor of Business Administration</b>	UG	-	-	-	120	-
		<b>Hotel Management</b>		-	-	-	-	120
	<b>School of Computer Applications</b>	<b>B. Com. (Computer Applications)</b>	UG	-	-	180	-	-
		<b>M. Com., (Computer Applications)</b>	PG	-	-	60	-	-
		<b>Bachelor of Computer Applications</b>	UG	-	-	-	120	-
	<b>School of Advanced Sciences</b>	<b>M. Sc., Physics</b>	PG	-	-	60	-	-
		<b>M. Sc., Chemistry</b>	PG	-	-	60	-	-
		<b>M. Sc., Mathematics</b>	PG	-	-	60	-	-
	<b>School of fashion Technology</b>	<b>Fashion Technology</b>	UG	-	-	-	-	120
	<b>School of Law</b>	<b>Law</b>	UG	-	-	-	-	120
	<b>Total Intake</b>			<b>60</b>	<b>610</b>	<b>670</b>	<b>480</b>	<b>460</b>

## 8.2 Additional Intake for Existing Programs

**Table 4: Additional Intake for Existing Programs**

Schools	Branch	Level	2024-25	2025-26	2026-27	2027-28	2028-29
School of Engineering.	Civil Engineering	UG	-	-	-	60	-
	Electrical & Electronics Engineering	UG	-	-	-	60	-
	Mechanical Engineering	UG	-	-	-	60	-
School of Computing	Computer Science & Engineering	UG	120	-	-	180	-
	CSE -Data Science	UG	120	-	-	60	-
	CSE - Artificial Intelligence & Machine Learning	UG	240	-	-	60	-
School of Management	Master of Business Administration	PG	120	-	-	-	-
School of Computer Applications	Masters in Computer Applications	PG	180	-	-	-	-
Total increase in Intake....			780	-	-	480	-

## 8.3 Combined Intake (New and Existing)

**Table 5: Combined Intake (New and Existing)**

Schools	Branch	Level	2024-25	2025-26	2026-27	2027-28	2028-29
School of Engineering	Civil Engineering	UG	60	60	60	120	120
	Electrical & Electronics Engineering	UG	60	60	60	120	120
	Mechanical Engineering	UG	60	60	60	120	120
	Electronics & Communication Engineering	UG	300	300	300	300	300
	Automation & Robotics	UG	-	-	-	120	120
	Biotechnology	UG	-	-	-	120	120
	VLSI Design	PG	30	30	30	30	30
	Advanced Manufacturing Systems	PG	-	-	-	-	30
	Electrical Power Systems	PG	-	-	-	-	30
	Structural Engineering	PG	-	-	-	-	30
School of Computing	Computer Science & Engineering	UG	900	900	900	1080	1080
	CSE -Data Science	UG	300	300	300	360	360
	CSE - Artificial Intelligence & Machine Learning	UG	300	300	300	360	360
	Computer Science & Engineering	PG	30	30	30	30	30
	Doctoral Programs	Ph.D	-	10	20	20	30
	B. Sc., Computer Science	UG	-	-	240	240	240
	M. Sc., Computer Science	PG	-	60	60	60	60
School of Pharmacy	B. Pharmacy	UG	-	180	180	180	180
School of Education	B. A., Ed.,	UG	-	120	120	120	120
	B. Sc., Ed.,	UG	-	120	120	120	120
	B. Com., Ed.,	UG	-	120	120	120	120
School of Management	Bachelor of Business Administration	UG	-	-	-	120	120
	Master of Business Administration	PG	300	300	300	300	300

			<b>Hotel Management</b>		-	-	-	-	120
		<b>School of Computer Applications</b>	<b>Masters in Computer Applications</b>	PG	360	360	360	360	360
			<b>B. Com. (Computer Applications)</b>	UG	-	-	180	180	180
			<b>Bachelor of Computer Applications</b>	UG	-	-	-	120	120
			<b>M. Com., (Computer Applications)</b>	PG			60	60	60
		<b>School of Advanced Sciences</b>	<b>M. Sc., Physics</b>	PG	-	-	60	60	60
			<b>M. Sc., Chemistry</b>	PG	-	-	60	60	60
			<b>M. Sc., Mathematics</b>	PG	-	-	60	60	60
		<b>School of fashion Technology</b>	<b>Fashion Technology</b>		-	-	-	-	120
		<b>School of Law</b>	<b>Law</b>		-	-	-	-	120
			<b>Total Intake....</b>		<b>2700</b>	<b>3310</b>	<b>3980</b>	<b>4940</b>	<b>5400</b>

<b>9.0</b>		<b>NEP, Academic Bank of Credits and Curriculum Design &amp; Development</b>	
	<b>9.1</b>	<b>National Education Policy</b>	
		<p>MITS is committed to strengthen implementation of all aspects of NEP for inclusive development.</p> <p>As visualized in NEP-2020, MITS will give higher weightage for continuous and formative assessment in an Integrated learning frame work which broadly comprises of:</p> <ul style="list-style-type: none"> <li>• Learning</li> <li>• Critical Thinking</li> <li>• Understanding</li> <li>• Up-Skilling</li> <li>• Applying</li> <li>• Creating</li> </ul> <p>MITS will emphasize on continuous formative assessment to facilitate the candidate to “Move away from high stake examinations – towards more continuous and comprehensive evaluation”.</p> <p>In line with NEP-2020, an optional exit/ entry is provided for a candidate who has earned a minimum number of credits and has completed all the requirements up to the end of respective years of study.</p>	



	<b>9.2</b>	<b>Academic Bank of Credits</b>	
		<p>Under NEP-2020, it facilitates the students all over the nation with the “Academic Bank of Credits” (ABC) system for academic flexibility and mobility. This system enables fulfilling their thirst for knowledge by picking and modify their educational paths and linking diverse disciplines, skill-sets in acquiring the proper foundations and shaping their ambitions.</p> <p>The ABC platform will provide students with the opportunity to register for a unique ABC ID, an interactive dashboard to see their credit accumulation and options to begin a choice-based credit transfer mechanism. In addition, the student self-registration module will enable accurate identification of candidates who want to check and transfer their credits depending on their needs. MITS has already initiated the process.</p>	
	<b>9.3</b>	<b>Curriculum Design &amp; Development</b>	
		<p>MITS diligently will carry out its mandate to develop relevant and comprehensive curricula for all its programs and keep them up to date through regular revisions considering not only the national and global developments but also the local and regional needs.</p> <p>Curriculum Design and Development process focuses on identifying the requirements for the Programs to be offered by the departments, formation of the courses, evaluation plan and modes of offering the same. It should also include the provision for supporting various career categories such as:</p> <ul style="list-style-type: none"> <li>• Employability</li> <li>• Entrepreneurship</li> <li>• Innovations &amp; Start-ups</li> <li>• Research</li> </ul>	

<b>10.0</b>		<b>Infrastructure and Facilities Over the next Five years</b>	
	<b>10.1</b>	<b>Location analysis and selection criteria</b>	
		MITS is an existing Institution since last 25 years.	

	<b>10.2</b>	<b>Land Requirement and acquisition plan</b>	
		<p>The existing land parcel available in the campus gives enough opportunity for the Deemed to be University, as we have almost 19 acres of vacant land available in the existing campus.</p> <p>However, going forward, if further land requirement comes-up, then the same will be acquired for future expansion. (Such land is available nearby for any expansion plans.)</p>	
	<b>10.3</b>	<b>Design and layout of the campus</b>	
		The Design and layout of campus- Over next 5 years are attached as <b>Annexure 16</b>	
	<b>10.4</b>	<b>Facilities such as Classrooms, Libraries, Labs, Dormitories, etc</b>	
		<p>The below mentioned infrastructure is under construction and it will ready for use from 2024-25 Academic Year</p> <p>Additionally, Innovation Center / Start-Up Hubs / Industry initiated Research Facilities, Laboratories will all be provided.</p>	
	<b>10.5</b>	<b>Infrastructure Details – Under Construction</b>	
	<b>10.6</b>	<b>KK Block and NPN Blocks (New Construction) Table 4</b>	

**Table 6: KK and NPN Blocks: New Construction**

Sr No	Blocks	Floor	Description	No's	Area in Sq Met
1	KK	G + 3	Class Rooms	26	1812
2	KK	G + 3	Labs	4	359
3	KK	G + 3	Administrative	2	165
4	KK	G + 3	Amenities	8	261
5	KK	G + 3	Circulation		1688
Total					4285
1	NPN	C+G+2	Class Rooms	20	1400
2	NPN	C+G+2	Labs	4	352
3	NPN	C+G+2	Administrative	2	205
4	NPN	C+G+2	Amenities	6	195

5	NPN	C+G+2	Circulation		1453
<b>Total</b>					<b>3605</b>

**Table 7: Summary of KK and NPN Blocks**

Sr No	Blocks	Floor	Area in Sq Met	Amount in Lakhs
1	KK Block	G+3	4285	693
2	NPN Block	C+G+2	3605	582
3	Research Block Extension1	G+3	1932.38	312
4	Research Block Extension2	G+3	1244.15	200.88
<b>Total</b>			<b>11066.53</b>	<b>1787.88</b>

11.0		<b>Financial Planning: Over next 5 years</b>	
	11.1	<b>Cost estimation for infrastructure, facilities, and development</b>	

**Table 8: Cost estimation for infrastructure, facilities, and development**

Academic Year	Intake at the beginning of the AY	Additional intake in Academic Year	Total intake	Investment Required for Infrastructure (Lakhs)
2023-2024	1860	0	1860	Already Existing
2024-25	1860	840	2700	1141.63
2025-26	2700	610	3310	3381.43
2026-27	3310	670	3980	1875.44
2027-28	3980	960	4940	2460.23
2028-2029	4880	460	5400	1964.08

**Note:** The Detailed working for the additional infrastructure required for enhanced intake is attached in the **Annexure 17**.

	<b>11.2</b>	<b>Proposed Fee Structure</b>					
		The proposed fee structure is based on the line of the current fee being charged by MITS and nearby Private Universities.					
	<b>11.2a</b>	<b>Table 9: Program wise Intake and Fee:2024-25</b>					
		<b>Schools</b>	<b>Branch</b>	<b>Level I</b>	<b>Intake</b>	<b>Fee per Student (Rs.)</b>	<b>Total Fee (Rs.)</b>
		School of Engineering	Civil Engineering	UG	60	1,10,000.00	66,00,000
			Electrical & Electronics Engineering	UG	60	1,10,000.00	66,00,000

		Mechanical Engineering	UG	60	1,10,000.00	66,00,000
		Electronics & Communication Engineering	UG	300	1,60,000.00	4,80,00,000
		VLSI Design	PG	30	1,00,000.00	30,00,000
	School of Computing	Computer Science & Engineering	UG	900	1,90,000.00	17,10,00,000
		CSE -Data Science	UG	300	1,90,000.00	5,70,00,000
		CSE - Artificial Intelligence & Machine Learning	UG	300	1,90,000.00	5,70,00,000
		Computer Science & Engineering	PG	30	1,00,000.00	30,00,000
	School of Management	Master of Business Administration	PG	300	1,00,000.00	3,00,00,000
	School of Computer Applications	Masters in Computer Applications	PG	360	1,09,000.00	3,92,40,000
		<b>Total Intake....</b>		<b>2700</b>		42,80,40,000

The average fee per student for the year 2024-2025 works out to Rs. 158533.

11.2b

**Table 10: Program-wise Intake and Fee:2025-26**

Schools	Branch	Level	Intake	Fee per Student (Rs.)	Total Fee (Rs.)
School of Engineering	Civil Engineering	UG	60	1,10,000	66,00,000
	Electrical & Electronics Engineering	UG	60	1,10,000	66,00,000
	Mechanical Engineering	UG	60	1,10,000	66,00,000
	Electronics & Communication Engineering	UG	300	1,60,000	4,80,00,000
	VLSI Design	PG	30	1,00,000	30,00,000
	Doctoral Programs	Ph. D	5	90,000	4,50,000
School of Computing	Computer Science & Engineering	UG	900	1,90,000	17,10,00,000
	CSE -Data Science	UG	300	1,90,000	5,70,00,000
	CSE - Artificial Intelligence & Machine Learning	UG	300	1,90,000	5,70,00,000
	Computer Science & Engineering	PG	30	1,00,000	30,00,000
	Doctoral Programs	Ph. D	5	90,000	4,50,000

		M. Sc., Computer Science	PG	60	85,000	51,00,000
	School of Pharmacy	B. Pharmacy	UG	180	1,60,000	2,88,00,000
	School of Education	B. A., Ed.,	UG	120	85,000	1,02,00,000
		B. Sc., Ed.,	UG	120	85,000	1,02,00,000
		B. Com., Ed.,	UG	120	85,000	1,02,00,000
	School of Management	Master of Business Administration	PG	300	1,00,000	3,00,00,000
	School of Computer Applications	Masters in Computer Applications	PG	360	1,09,000	3,92,40,000
		<b>Total Intake....</b>		<b>3310</b>		<b>49,34,40,000</b>

The average fee per student for the year 2025-2026 works out to Rs. 149075

11.2c

**Table 11: Program wise Intake and Fee: 2026-27**

Schools	Branch	Level	Intake	Fee per Student (Rs.)	Total Fee (Rs.)
School of Engineering	Civil Engineering	UG	60	1,21,000.00	72,60,000
	Electrical & Electronics Engineering	UG	60	1,21,000.00	72,60,000
	Mechanical Engineering	UG	60	1,21,000.00	72,60,000
	Electronics & Communication Engineering	UG	300	1,76,000.00	5,28,00,000
	VLSI Design	PG	30	1,10,000.00	33,00,000
	Doctoral Programs	Ph. D	10	90,000.00	9,00,000
School of Computing	Computer Science & Engineering	UG	900	2,09,000.00	18,81,00,000
	CSE -Data Science	UG	300	2,09,000.00	6,27,00,000
	CSE - Artificial Intelligence & Machine Learning	UG	300	2,09,000.00	6,27,00,000
	Computer Science & Engineering	PG	30	1,10,000.00	33,00,000
	Doctoral Programs	Ph. D	10	90,000.00	9,00,000
	B. Sc., Computer Science	UG	240	80,000.00	1,92,00,000

		M. Sc., Computer Science	PG	60	85,000.00	51,00,000
	School of Pharmacy	B. Pharmacy	UG	180	1,60,000.00	2,88,00,000
	School of Education	B. A., Ed.,	UG	120	85,000.00	1,02,00,000
		B. Sc., Ed.,	UG	120	85,000.00	1,02,00,000
		B. Com., Ed.,	UG	120	85,000.00	1,02,00,000
	School of Management	Master of Business Administration	PG	300	1,10,000.00	3,30,00,000
	School of Computer Applications	Masters in Computer Applications	PG	360	1,19,900.00	4,31,64,000
		B. Com. (Computer Applications)	UG	180	70,000.00	1,26,00,000.00
		M. Com., (Computer Applications)	PG	60	85,000.00	51,00,000.00
	School of Advanced Sciences	M. Sc., Physics	PG	60	60,000.00	36,00,000.00
		M. Sc., Chemistry	PG	60	60,000.00	36,00,000.00
		M. Sc., Mathematics	PG	60	60,000.00	36,00,000.00
		<b>Total Intake....</b>		<b>3980</b>		<b>58,48,44,000</b>

The average fee per student for the year 2026-2027 works out to Rs. 146945.

**11.2d**

**Table 12: Program wise Intake and Fee: 2027-28**

Schools	Branch	Level	Intake	Fee per Student (Rs.)	Total Fee (Rs.)
School of Engineering	Civil Engineering	UG	120	1,21,000.00	1,45,20,000
	Electrical & Electronics Engineering	UG	120	1,21,000.00	1,45,20,000
	Mechanical Engineering	UG	120	1,21,000.00	1,45,20,000
	Electronics & Communication Engineering	UG	300	1,76,000.00	5,28,00,000
	Automation & Robotics	UG	120	1,60,000.00	1,92,00,000
	Biotechnology	UG	120	1,60,000.00	1,92,00,000
	VLSI Design	PG	30	1,10,000.00	33,00,000
	Doctoral Programs	Ph. D	10	90,000.00	9,00,000
School of Computing	Computer Science & Engineering	UG	1080	2,09,000.00	22,57,20,000

	g	CSE -Data Science	UG	360	2,09,000.00	7,52,40,000
		CSE - Artificial Intelligence & Machine Learning	UG	360	2,09,000.00	7,52,40,000
		Computer Science & Engineering	PG	30	1,10,000.00	33,00,000
		Doctoral Programs	Ph. D	10	90,000.00	9,00,000
		B. Sc., Computer Science	UG	240	80,000.00	1,92,00,000
		M. Sc., Computer Science	PG	60	93,500.00	56,10,000.00
	School of Pharmacy	B. Pharmacy	UG	180	1,76,000.00	3,16,80,000
	School of Education	B. A., Ed.,	UG	120	93,500.00	1,12,20,000
		B. Sc., Ed.,	UG	120	93,500.00	1,12,20,000
		B. Com., Ed.,	UG	120	93,500.00	1,12,20,000
	School of Management	Bachelor of Business Administration	UG	120	80,000.00	96,00,000
		Master of Business Administration	PG	300	1,10,000.00	3,30,00,000
	School of Computer Applications	Masters in Computer Applications	PG	360	1,19,900.00	4,31,64,000
		B. Com. (Computer Applications)	UG	180	70,000.00	1,26,00,000
		Bachelor of Computer Applications	UG	120	70,000.00	84,00,000
		M. Com., (Computer Applications)	PG	60	85,000.00	51,00,000
	School of Advanced Sciences	M. Sc., Physics	PG	60	60,000.00	36,00,000
		M. Sc., Chemistry	PG	60	60,000.00	36,00,000
		M. Sc., Mathematics	PG	60	60,000.00	306,00,000
		<b>Total Intake....</b>		<b>4940</b>		<b>73,21,74,000</b>

The average fee per student for the year 2027-2028 works out to Rs. 148213.

11.2e	<b>Table 13: Program wise Intake and Fee: 2028-29</b>					
	<b>Schools</b>	<b>Branch</b>	<b>Level</b>	<b>Intake</b>	<b>Fee per Student (Rs.)</b>	<b>Total Fee (Rs.)</b>
	School of Engineering	Civil Engineering	UG	120	1,33,100.00	1,59,72,000
		Electrical & Electronics Engineering	UG	120	1,33,100.00	1,59,72,000
		Mechanical Engineering	UG	120	1,33,100.00	1,59,72,000

		Electronics & Communication Engineering	UG	300	1,93,600.00	5,80,80,000
		Automation & Robotics	UG	120	1,60,000.00	1,92,00,000
		Biotechnology	UG	120	1,60,000.00	1,92,00,000
		VLSI Design	PG	30	1,21,000.00	36,30,000
		Advanced Manufacturing Systems	PG	30	1,00,000.00	30,00,000
		Electrical Power Systems	PG	30	1,00,000.00	30,00,000
		Structural Engineering	PG	30	1,00,000.00	30,00,000
		Doctoral Programs	Ph. D	20	90,000.00	18,00,000
	School of Computing	Computer Science & Engineering	UG	1080	2,29,900.00	24,82,92,00
		CSE -Data Science	UG	360	2,29,900.00	8,27,64,000
		CSE - Artificial Intelligence & Machine Learning	UG	360	2,29,900.00	8,27,64,000
		Computer Science & Engineering	PG	30	1,21,000.00	36,30,000
		Doctoral Programs	Ph. D	10	90,000.00	9,00,000
		B. Sc., Computer Science	UG	240	88,000.00	2,11,20,000
		M. Sc., Computer Science	PG	60	93,500.00	56,10,000
	School of Pharmacy	B. Pharmacy	UG	180	1,76,000.00	3,16,80,000
	School of Education	B. A., Ed.,	UG	120	93,500.00	1,12,20,000
		B. Sc., Ed.,	UG	120	93,500.00	1,12,20,000
		B. Com., Ed.,	UG	120	93,500.00	1,12,20,000.00
	School of Management	Bachelor of Business Administration	UG	120	80,000.00	96,00,000
		Master of Business Administration	PG	300	1,21,000.00	3,63,00,000
		Hotel Management		120	85,000.00	1,02,00,000
	School of Computer Applications	Masters in Computer Applications	PG	360	1,31,890.00	4,74,80,400
		B. Com. (Computer Applications)	UG	180	77,000.00	1,38,60,000
		Bachelor of Computer Applications	UG	120	70,000.00	84,00,000
		M. Com., (Computer Applications)	PG	60	93,500.00	56,10,000
	School of Advanced	M. Sc., Physics	PG	60	66,000.00	39,60,000



	Sciences	M. Sc., Chemistry	PG	60	66,000.00	39,60,000
		M. Sc., Mathematics	PG	60	66,000.00	39,60,000
	School of Technology	Fashion Technology	UG	120	85,000.00	1,02,00,000
	School of Law	Law	UG	120	85,000.00	1,02,00,000
		<b>Total Intake....</b>		<b>5400</b>		<b>83,29,76,400</b>
The average fee per student for the year 2028-2029 works out to Rs. 154254.						

	<b>11.3</b>	<b>Revenue model (tuition fees, grants, donations, etc.)</b>	
--	-------------	--	--

**Table 14: Revenue model**

<b>Expenditure</b>	<b>AY:2024-25 (Rs. In Lakhs)</b>	<b>AY:2025-26 (Rs. In Lakhs)</b>	<b>AY:2026-27 (Rs. In Lakhs)</b>	<b>AY:2027-28 (Rs. In Lakhs)</b>	<b>AY:2028-29 (Rs. In Lakhs)</b>
Teaching & non-teaching staff Salary	5,400.00	6,869.20	8,590.18	10,964.70	12,772.62
M.Tech Stipend / Ph.D Stipend	108.00	252.00	288.00	288.00	486.00
Softwares	100.00	200.00	250.00	300.00	350.00
Printing, Stationary & Consumables	230.22	319.31	464.44	671.85	793.35
Repairs & Maintenances	115.11	136.85	232.22	373.25	440.75
R&D Expenses and Center for Excellence expenses	150.00	500.00	700.00	900.00	1,100.00
Travel, Boarding & Lodging	50.00	55.00	66.00	79.20	95.04

Training & Placement Expenses	268.59	364.92	464.44	671.85	793.35
Social Welfare	25.00	27.50	33.00	39.60	47.52
Professional Charges & Consultancy	60.00	66.00	79.20	95.04	114.05
Power and Generator	82.19	90.41	108.49	130.19	156.22
Rent, Rates & Taxes	25.00	27.50	33.00	39.60	47.52
Departmental expenditure/activities including FDPs, Seminars, Workshops, Industry visits, etc	179.80	214.50	257.40	308.88	308.88
College operating Expenses	130.00	143.00	171.60	205.92	247.10
Communication and Radio station Expenses	75.00	137.50	165.00	198.00	237.60
Promotion & Publicity Expenses	306.96	433.34	696.66	1,045.10	1,410.40
Vehicle Maintenance (including service, fuel charges, etc.)	200.00	220.00	264.00	316.80	380.16
National festivals and events	25.00	27.50	33.00	39.60	47.52
Membership & other Fee	3.50	3.85	4.62	5.54	6.65
Library	95.93	114.04	174.17	223.95	264.45
Development of Labs	153.48	273.69	464.44	597.20	705.20
Examination conducting expenditure	153.48	182.46	348.33	447.90	617.05
Interest charges on vehicle loans	47.00	36.00	24.00	12.50	2.50
Bank charges	1.25	1.5	1.75	2.0	2.25
New Departmental Expenses			300.00	400.00	600.00

New Program Labs			33.00	48.00	23.00
New Lab setup for new Programs				400.00	400.00
Depreciation on assets (Approx.)	300.00	400.00	500.00	600.00	700.00
Total Expenditure	8,285.50	11,096.05	14,746.93	19,404.68	23,149.19
Furtherance 10%	828.55	1,109.61	1,474.69	1,940.47	2,314.92
	<b>9114.05</b>	<b>12205.66</b>	<b>16221.62</b>	<b>21345.14</b>	<b>25464.11</b>
<b>Income</b>					
<b>Income</b>	<b>AY:2024-25 (Rs. In Lakhs)</b>	<b>AY:2025-26 (Rs. In Lakhs)</b>	<b>AY:2026-27 (Rs. In Lakhs)</b>	<b>AY:2027-28 (Rs. In Lakhs)</b>	<b>AY:2028-29 (Rs. In Lakhs)</b>
<b>Tuition Fee collected</b>					
1 <sup>st</sup> Year Fee	4280.40	4934.40	5848.44	7321.74	8329.76
2 <sup>nd</sup> Year Fee	1867.00*	4280.40	4934.40	5848.44	7321.74
3 <sup>rd</sup> Year Fee	1436.00*	1867.00*	4280.40	4934.40	5848.44
4 <sup>th</sup> Year Fee	1335.00*	1436.00*	1867.00*	4280.40	4934.40
MBA 2 <sup>nd</sup> year Fee	119.00*	-			
MCA 2 <sup>nd</sup> year Fee	112.00*	-			
Development Fee	54.00	120.20	349.65	597.20	1016.50
Consultancy Income	9.10	10.01	11.01	12.11	13.32
Interest Income on Corpus fund	150.00	150.00	150.00	150.00	150.00
Interest Income on excess income generated	0.00	29.40	76.52	65.71	30.00
<b>Total Income</b>	<b>9362.50</b>	<b>12827.41</b>	<b>17517.42</b>	<b>23210.00</b>	<b>27644.17</b>
<b>* Fee from existing Students</b>					
<b>Total Income &amp; Expenditure</b>					
	<b>AY: 2024-25 (Rs. In Lakhs)</b>	<b>AY: 2025-26 (Rs. In Lakhs)</b>	<b>AY: 2026-27 (Rs. In Lakhs)</b>	<b>AY: 2027-28 (Rs. In Lakhs)</b>	<b>AY: 2028-29 (Rs. In Lakhs)</b>
Total Income	9362.50	12827.41	17517.42	23210.00	27644.17
Total Expenditure	9114.05	12205.66	16221.62	21345.14	25464.11

Excess of income over Expenditure	248.45	621.75	1295.80	1864.86	2180.06
Net Income as a % to total income	3%	5%	7%	8%	8%
<b>Cash Generation</b>					
Excess of income over Expenditure	248.45	621.75	1295.80	1864.86	2180.06
Non-Cash Expenditure (Depreciation on assets)	300.00	400.00	500.00	600.00	700.00
Cash Generation in Previous Years	0.00	135.68	516.59	388.88	350.22
<b>Total...</b>	<b>548.45</b>	<b>1157.41</b>	<b>2312.39</b>	<b>2853.74</b>	<b>3230.28</b>
<b>Capital Expenditure</b>					
Building cost (A)	0.00	0.00	1329.44	1877.23	1,305.08
Furniture Cost of all Rooms(B)	114.00	186.00	151.00	153.00	209.00
Lab Equipment Cost (C)	12.00	56.00	60.00	80.00	100.00
Computer Lab Cost (D)	270.00	335.00	335.00	350.00	350.00
<b>Total Capital Expenditure (A+B+C+D)</b>	<b>396.00</b>	<b>577.00</b>	<b>1875.44</b>	<b>2460.23</b>	<b>1964.08</b>
Cash Flow available (Rs. in Lakhs)	152.45	580.43	436.95	393.51	1266.20
Fund Allocation for Welfare Measures (Rs. in Lakhs)	16.77	63.84	48.07	43.29	139.27
<b>Net Cash Flow needed for expansion and development (Rs. in Lakhs)</b>	<b>135.68</b>	<b>516.59</b>	<b>388.88</b>	<b>350.22</b>	<b>1126.93</b>
<b>Note:</b> In 2024-25 & 2025-26, Building expenditure (A) will not be applicable, as the same is under construction.					

<b>11.4</b>	<b>Table 15: Fund Allocation for Welfare Measures</b>							
	<b>Year</b>	<b>Cash Flow (Rs. in Lakhs)</b>	<b>CSR Fund @ 2% of cash flow (Rs. in Lakhs)</b>	<b>Student Welfare Fund @ 2% of cash flow (Rs. in Lakhs)</b>	<b>Staff Welfare Fund @ 2% of cash flow (Rs. in Lakhs)</b>	<b>Scholarship Fund @ 5% of cash flow (Rs. in Lakhs)</b>	<b>Total fund for Welfare Measure</b>	<b>Net Cash flow available (Rs. in Lakhs)</b>

				Lakhs)	Lakhs)		res	Lakhs)
	2024-25	152.43	3.05	3.05	3.05	7.62	16.77	135.66
	2025-26	580.43	11.61	11.61	11.61	29.02	63.84	516.59
	2026-27	436.95	8.74	8.74	8.74	21.85	48.07	388.88
	2027-28	393.51	7.87	7.87	7.87	19.68	43.29	350.22
	2028-29	1266.20	25.32	25.32	25.32	63.31	139.27	1126.93

**11.5 Table 16: Funding Sources**

Academic Year	Addition al intake in Academic Year	Fund Availa ble from Cash Gener ation (In Lakhs)	Infrastructu re Investment Required for the additional intake (In Lakhs)	Funding Sources
2024-25	840	548.45	Infrastructur e Existing	Internal Accrual
2025-26	610	1157.4 1	Infrastructur e Under Construction	Internal Accrual
2026-27	670	2312.3 9	1875.44	Internal Accrual
2027-28	960	2853.7 4	2460.23	Internal Accrual
2028-2029	460	3230.2 8	1964.08	Internal Accrual

		<b>Market Factors</b>	
<b>12.0</b>		<b>Market Analysis</b>	
	<b>12.1</b>	<b>Demand for higher education in the region</b>	
		<p>Madanapalle Institute of Technology &amp; Science, Madanapalle is situated about 10 KMs from Madanapalle town which is one of the leading institutions in Rayalaseema Region offering Engineering and Management Education.</p> <p>The demand for higher education in this region is influenced by the following factors such as:</p> <ol style="list-style-type: none"> <li>1. Rural population aspiring for Technical Education</li> <li>2. Awareness that technically skilled manpower has Global Opportunities</li> <li>3. Understanding the importance of Education for Social Upliftment</li> <li>4. Conducive climatic conditions for education</li> <li>5. Large opportunities for industry set up to cater to the agricultural/ sericulture produce</li> <li>6. MITS currently enjoys the privilege and is running successfully with 100% admissions. In future too, the conditions are going to prevail and MITS appropriately strategizes to meet the expectations</li> </ol>	
	<b>12.2</b>	<b>Analysis of existing Universities &amp; other competitions</b>	
		<p>Considering the above conducive environment in the region, many institutions and universities have come up in the region.</p> <p>Nearby Madanapalle within a radius of 150 kms, the following universities as per Table 10, 11, 12 are existing,</p> <p>However, excluding JNTUA, IIT and Mohan Babu University, the other universities / institutions are general in nature and are in no direct competition with the proposed MITS University.</p> <p>However, MITS has a unique proposition with respect to its faculty strength, research publications, strict adherence to the academic curriculum, national</p>	

		&International connects which differentiates with the other institutes. MITS shall continue to prove its uniqueness and build strong forts to mark its territory.	
	<b>12.3</b>	<b>Other nearby Universities within 150 Km radius</b>	

**Table 17: Central Universities nearby MITS**

Sl.No	Central Universities	Location	Established	Specialization
1.	Central University of Andhra Pradesh	Anantapur	2018	General
2.	National Sanskrit University	Tirupati	1961 (1987†)	Sanskrit

**Table 18: Centrally Funded Technical Institutions (CFTI) nearby MITS**

Sl.No	CFTI	Location	Established	Specialization
1.	Indian Institute of Technology	Tirupati	2015	Technology
2.	Indian Institute of Science Education and Research	Tirupati	2015	Science
3.	Indian Culinary Institute, Tirupati	Tirupati	2016	BBA– Culinary
4.	Dr. YSR Architecture and Fine Arts University	<u>Kadapa</u>	2020	Architecture and Fine Arts
5.	Jawaharlal Nehru Technological University, Anantapur	Anantapur	2008	Technology
6.	Sri Krishnadevaraya University	Anantapur	1981	General
7.	Sri Padmavati Mahila Visvavidyalayam	Tirupati	1983	Women's only
8.	Sri Venkateswara Institute of Medical Sciences	Tirupati	1993	Medical
9.	Sri Venkateswara University	Tirupati	1954	General
10.	Sri Venkateswara Vedic University	Tirupati	2006	Vedic studies
11.	Sri Venkateswara Veterinary University	Tirupati	2005	Veterinary school
12.	Yogi Vemana University	Kadapa	2006	General

**Table 19: Private Universities nearby MITS**

Sl.No	Private University	Location	Established	Specialization
-------	--------------------	----------	-------------	----------------

1.	Mohan Babu University	Tirupati	2023	Engineering, Management, Fine arts, Agriculture, Film & Media
----	-----------------------	----------	------	--

	<b>12.4</b>	<b>Identification of target audience and their needs</b>	
		Presently MITS is focusing on the students from the Rayalaseema Region with a very small percentage from other parts of the state. Going into future, MITS shall devise a strategy to attract students across the country and also a few foreign nationals to pursue their education. For this, accommodation, food at international level is being planned. Further, with the curriculum being mapped to the NEP-2020 to ensure that the academic requirements of the new segment of the students also are met.	

	<b>13.0</b>	<b>Risk Assessment and Mitigation</b>	
	<b>13.1</b>	<b>Identification of potential Risks and Challenges</b>	
		<p>The risks are classified based on their likelihood of occurrence and their significant impact on the development and growth of the University.</p> <p>Risks that will have a high probability of occurrence and a high impact on the University will be generally classified as high risks, while those which cause moderate impact on the growth will be classified as medium. Low risks will be the ones that have a least chance of occurrence and possess a low impact on the University.</p> <p>A summary of the high risks is presented below:</p> <ul style="list-style-type: none"> <li> <b>Reputational Risk:</b>            Negative publicity may damage the image of the organization and this can be mitigated by developing and implementing an effective communication strategy. Further to manage the crisis, the institution would promote prompt dissemination of information.         </li> </ul> <p>Currently, MITS website provides the entire information concerning the activities of the Institute very transparently.</p>	



It publishes all the credentials of the Institute which are hard earned by the Institute. Apart from the website, MITS has its presence in various social media and is very active with large number of followers.

In addition to that, the Senior Manager Communications maintains good relations with the Media to reach the Public. These existing initiatives will further be strengthened to ensure no risk happens and also to mitigate if any negative publicity happens.

- **Legal Risks:**

Academic Program approval and Regulatory requirements fall under this category. This can be mitigated by ensuring that all the Academic Programs offered by the University are approved by relevant bodies and they comply with the requirements as mandated.

Further, we plan to conduct internal, statutory and management audits to ensure that all the regulatory requirements are met to the fullest satisfaction. MITS fulfils and would continue to fulfil all the statutory and legal requirements from time to time.

- **Financial Risks:**

Non-payment of student tuition fees on time and inadequate funding for running the academic programs and funded research fall under this category. This risk can be mitigated by doing the following:

1. Ensuring all the student tuition fees payable are collected within the Academic Year.
2. Establish partnership with other stakeholders like alumni, employers to provide financial assistance and scholarships.
3. Connect with industry to seek financial assistance to carry out research in collaboration with industry

Currently, MITS ensures periodically that all the fee dues from the students are remitted in time with timely circulars and reminders. Going into the future, MITS shall create a Corpus Fund to mitigate this risk, such that the day-to-day operations of the Institute shall not be affected.

		<ul style="list-style-type: none"> <li> <b>Operational Risks:</b>            Inadequate supply of utilities and sudden pandemic outbreaks generally fall under this category. This can be mitigated by ensuring surplus backup of essential commodities', power and storage facilities. Further we will ensure that all Health and Safety standards are maintained in all residential and institutional premises.            The necessities for the day-to-day operations like Water, Power, Diesel etc., are already planned. Water source is a plenty in the region, though Sewage Treatment Plant is already established and in full use. For Power, alternatively, MITS generates Solar Power and already is contributing to the Power Grid. These initiatives shall be further strengthened in future.         </li> <li> <b>Quality Risks:</b>            Inadequate satisfaction of clients and stake holders will fall under this category. This can be mitigated by immediate fulfillment of client requests to utmost satisfaction. Further the institute shall ensure that faculty members / staff are capable to meet the expectations of all stake holders.             The expectations of all the stakeholders is already being addressed. However, enlistment of the expectations of the stakeholders and assigning the responsibilities to specific wings of MITS who are trained to become competent to address the same is being ensured.         </li> </ul>	
<b>14.0</b>		<b>Strategies to Mitigate Risks</b>	
	<b>14.1</b>	Mitigating risks in a new University involves strategic planning and proactive measures. These are several strategies to address potential risks:	
	<b>14.2</b>	<b>Financial Risks</b>	
	<b>14.2a</b>	<b>Diversify Funding Sources</b>	
		<p>Non-payment of student tuition fees and insufficient funding for academic programs and research pose significant financial risks for MITS. To address this challenge, MITS is actively diversifying its funding sources through strategic initiatives.</p> <p>This includes ensuring timely collection of all student</p>	

		<p>tuition fees within the academic year, establishing partnerships with stakeholders like alumni and employers for financial assistance and scholarships, and engaging with industry for collaborative research opportunities.</p> <p>By tapping into a variety of funding streams, MITS aims to create a more resilient financial foundation that goes beyond traditional revenue sources.</p>	
	14.2b	<ul style="list-style-type: none"> <li> <p><b>Financial Planning:</b></p> <p>MITS recognizes the importance of robust financial planning to sustain its day-to-day operations and mitigate potential risks. The institution currently employs proactive measures, such as periodic checks on fee payments with timely circulars and reminders.</p> <p>Looking ahead, MITS is taking a forward-thinking approach by planning to establish a Corpus Fund. This fund will serve as a financial reserve, providing a buffer against uncertainties and ensuring the seamless continuation of institute operations. By incorporating financial planning strategies, MITS aims to foster stability and long-term financial health.</p> </li> <li> <p><b>Risk Assessment and Contingency Plans</b></p> <p>Understanding the inherent risks associated with non-payment of tuition fees and inadequate funding, MITS is actively engaged in risk assessment and contingency planning. The institution is committed to ensuring that all fee dues are collected on time through regular checks and reminders. Additionally, MITS plans to create a Corpus Fund as a proactive contingency measure.</p> <p>This fund will act as a safeguard, allowing the institution to navigate financial challenges without compromising day-to-day operations. By emphasizing risk assessment and implementing contingency plans, MITS is strengthening its resilience and preparedness for any unforeseen financial adversities.</p> </li> </ul>	

<b>15.0</b>		<b>Reputation and Credibility</b>	
	<b>15.1</b>	<b>Quality Assurance</b>	
		<p>MITS is committed to upholding the highest standards of academic excellence and quality across all facets of its educational offerings.</p> <p>The institution places a strong emphasis on Quality Assurance as a foundational principle. This commitment extends to ensuring the quality of academic programs, faculty, and research initiatives. MITS understands that maintaining these high standards is essential not only for the credibility of the institution but also for providing students with a top-notch education that prepares them for the challenges of the modern world.</p> <p>Through continuous assessment, evaluation, and improvement, MITS is dedicated to delivering an educational experience that meets and exceeds the expectations of its students and stakeholders.</p> <p>As a part of MITS commitment to the society, Quality and competency-based Certificate or Diploma courses with reference to local needs will be made available to the immediate local population</p>	
<b>16.0</b>		<b>Transparency and Communication:</b>	
		<p>MITS recognizes the critical importance of transparent communication with all stakeholders, including students, faculty, staff, and the wider community. Our commitment to transparency is integral to building trust and fostering an open and supportive environment.</p> <p>We understand that clear and honest communication is key to addressing concerns promptly. MITS is dedicated to establishing channels that facilitate open dialogue, ensuring that information is readily accessible and easily understood. Whether it involves sharing updates on academic programs, addressing faculty and staff inquiries, or engaging with the community, our aim is to promote a culture of transparency that builds trust and strengthens relationships.</p> <p>By actively embracing transparent communication practices,</p>	

		MITS seeks to create an inclusive and collaborative atmosphere where all stakeholders feel heard and valued. This commitment extends to promptly addressing concerns and providing clarity, reinforcing our dedication to maintaining a positive and constructive relationship with everyone involved in the University community.	
<b>17.0</b>		<b>Accreditation and Compliance</b>	
		<p>MITS places a high priority on accreditation and compliance with educational standards to uphold credibility and assure the quality of our educational programs. We are committed to meeting and exceeding the established benchmarks and guidelines set by relevant accrediting bodies.</p> <p>Our institution understands the importance of adhering to educational standards as a means of ensuring that our academic offerings meet recognized benchmarks of excellence. Pursuing and obtaining relevant accreditations is a proactive step taken by MITS to demonstrate our commitment to delivering high-quality education.</p> <p>By aligning with accreditation requirements and maintaining compliance with educational standards, MITS aims to provide students with a reputable and recognized education. This dedication not only enhances the credibility of our institution but also ensures that our academic programs are held to rigorous standards, fostering a learning environment that prepares students for success in their chosen fields. Our continuous efforts in accreditation and compliance underscore our commitment to academic excellence and the continuous improvement of our educational offerings.</p>	
<b>18.0</b>		<b>Recruitment and Retention</b>	
	<b>18.1</b>	<b>Faculty and Staff Development</b>	
		MITS recognize the pivotal role that faculty and staff play in the overall educational experience. Our commitment to excellence extends to the professional development of our faculty and staff members. We understand that investing in their growth not only enhances their individual capabilities but also contributes to the overall quality of education provided at our institution.	

	<p>MITS is dedicated to create an environment that encourages continuous learning and skill enhancement. Through strategic investments in professional development programs, we aim to attract and retain talented individuals who are passionate about fostering academic growth and innovation. These programs will cover a range of areas, including pedagogical advancements, technological updates, research methodologies, and leadership skills.</p> <p>By prioritizing faculty and staff development, MITS ensures that our educators stay abreast of the latest advancements in their respective fields, contributing to a dynamic and enriching learning environment. This commitment underscores our dedication to nurturing a team of professionals who are not only knowledgeable but also deeply invested in the success and development of our students.</p>	
<b>19.0</b>	<b>Student Support Services</b>	
	<p>MITS is committed to provide comprehensive student support services to enhance the overall student experience and foster high retention rates. Recognizing that student success goes beyond the classroom, we have developed a range of support services to ensure that every student receives the guidance and assistance they need throughout their academic journey.</p> <p>Our institution places a strong emphasis on academic advising, offering personalized guidance to help students navigate their academic paths successfully. Additionally, we provide counseling services to address the diverse needs of our student community, promoting mental well-being and resilience.</p> <p>Furthermore, MITS is dedicated to support students in their career development. Our career services are designed to equip students with the skills and resources needed to make informed career choices, pursue internships, and transition seamlessly into the professional world.</p> <p>By offering robust student support services, MITS aims to create a nurturing environment where students feel</p>	

		supported in their academic pursuits, personal development, and career aspirations. These services are an integral part to our commitment to student success and retention, ensuring that each student receives the holistic support necessary to thrive during their time at our institution.	
<b>20.0</b>		<b>Engagement and Community Building</b>	
		<p>MITS is dedicated to foster a vibrant campus community that goes beyond the classroom. We recognize the importance of student engagement and its impact on overall retention and satisfaction. To achieve this, the institute actively promotes and supports a variety of extracurricular activities, clubs, and events.</p> <p>Our institution believes that a well-rounded education extends to involve in activities outside of academic studies. We encourage students to participate in diverse extracurricular activities that cater to a range of interests. Whether it's joining a club, participating in cultural events, or engaging in sports and recreational activities, MITS provides ample opportunities for students to explore their passions and connect with like-minded peers.</p> <p>By fostering a sense of community through these activities, the Institute aims to create a supportive and inclusive environment. This not only enriches the overall student experience but also contributes significantly to student retention. Our commitment to engagement and community building reflects our belief in the holistic development of our students, ensuring that they not only succeed academically but also form lasting connections and memories during their time at MITS.</p>	
<b>21.0</b>		<b>Operational Challenges</b>	
	<b>21.1</b>	<b>Risk Management Policies</b>	
		Certainly, at MITS, we are dedicated to the safety, security, and well-being of our campus community. To ensure a secure and conducive environment, we have developed comprehensive risk management policies that span key areas such as cybersecurity, campus safety, academic integrity, and crisis management.	

	<p>In the realm of cybersecurity, MITS is committed to safeguarding our digital infrastructure and sensitive information. Our policies encompass measures to prevent cyber threats, secure data integrity, and regularly update our systems to stay ahead of evolving risks in the digital landscape.</p> <p>Campus safety is a top priority for the Institute. Our risk management policies include stringent safety protocols, emergency response plans, and ongoing training programs. These initiatives are designed to create a safe and secure environment for the students, faculty, and staff, fostering a campus where everyone feels protected and supported.</p> <p>Maintaining academic integrity is fundamental to the educational experience at MITS. Our policies address issues such as plagiarism, cheating, and other forms of academic misconduct. By upholding strict standards of academic honesty, we ensure the integrity of our educational programs and the value of the degrees awarded.</p> <p>In preparation for unforeseen events or emergencies, our institution has developed crisis management policies. These policies outline clear procedures for communication, evacuation, and coordination with relevant authorities to effectively respond to crises and minimize their impact on the campus community.</p> <p>By implementing and regularly reviewing these risk management policies, MITS demonstrates its commitment to provide a secure, ethical, and resilient learning and working environment. We remain vigilant in our efforts to identify and mitigate potential risks, adapting our strategies to uphold the highest standards of safety, security, and integrity across the campus.</p>	
<b>22.0</b>	<b>Technology Infrastructure</b>	
	<p>MITS has recognized the critical role of technology in enhancing the learning environment and supporting the overall operations of our institution. To ensure a seamless and secure technological experience, we are committed to invest in robust IT infrastructure and, cybersecurity</p>	



		<p>measures.</p> <p>Our commitment begins with the development and maintenance of a state-of-the-art technology infrastructure. This includes regular upgrades to hardware, software, and networking systems to keep pace with technological advancements. By investing in cutting-edge technologies, MITS aims to provide tools and resources necessary for a modern and efficient educational experience for students, faculty and staff.</p> <p>In tandem with enhancing our technology infrastructure, cybersecurity is a top precedence. MITS is dedicated to safeguard sensitive data and ensure the privacy and security of our digital assets. Our cybersecurity measures involve comprehensive strategies to identify, prevent, and respond to potential cyber threats. Regular assessments, updates, and training programs contribute to a proactive approach in maintaining a secure digital environment.</p> <p>By prioritizing both robust technology infrastructure and cybersecurity measures, MITS is committed to create a technologically advanced and secure campus. This investment not only supports the smooth day-to-day operations of the institution but also fosters an environment where students can engage with cutting-edge technology while having confidence in the security and integrity of their digital interactions.</p>	
<b>23.0</b>		<b>Sustainable Growth</b>	
		<p>MITS is dedicated to foster sustainable growth by adopting a strategic and responsible approach to expansion. We recognize the importance of ensuring that growth aligns with the available resources and infrastructure capacity to maintain a sustainable and thriving institution.</p> <p>Our commitment to sustainable growth involves careful planning and assessment of the institution's capabilities and limitations. We prioritize the alignment of expansion initiatives with the existing infrastructure, ensuring that we can support increased enrollment, additional programs, and expanded facilities without compromising the quality of</p>	

		<p>education or the student experience.</p> <p>When planning for growth, MITS takes into account the factors such as faculty and staff capacity, physical infrastructure, financial resources, and technological capabilities. By conducting thorough assessments and utilizing a phased approach to expansion, we aim to avoid overstretching resources and maintain a balance that supports long-term sustainability.</p> <p>This commitment to sustainable growth is not only about expanding in size but also about enhancing the quality of education and services provided. Through responsible planning, MITS seeks to create an environment where growth is synonymous with continuous improvement where every aspect of expansion contributes to the institution's overall excellence.</p>	
<b>24.0</b>		<b>Market and Competition</b>	
	<b>24.1</b>	<b>Market Research</b>	
		<p>MITS recognizes the dynamic nature of education and are committed to provide a student-centric experience that aligns with evolving needs. To achieve this, we prioritize continuous market research to gain insights into changing student preferences, industry trends, and the competitive landscape.</p> <p>Our dedication to market research involves regular and thorough assessments of the educational landscape. This includes understanding the shifting demands of students, emerging trends in academic disciplines, and the evolving requirements of industries and employers. By staying informed about these dynamics, MITS ensures that our academic programs remain relevant and aligned with the expectations of both students and the workforce.</p> <p>We are committed to utilize market research findings to enhance our educational offerings, optimize program structures, and introduce new initiatives that cater to the evolving needs of our student community. Additionally, this research allows us to stay competitive by identifying areas for improvement and innovation within the higher education</p>	

		sector.  At MITS, the integration of market research into our strategic planning processes enables us to adapt proactively to the changes in the educational landscape. By staying attuned to the pulse of the market, we aim to provide a forward-looking and responsive educational environment that prepares our students for success in a rapidly evolving world.	
<b>25.0</b>		<b>Differentiation Strategy</b>	
		<p>MITS embrace a differentiation strategy aimed at showcasing our unique strengths and offerings. We understand the importance of standing out in a competitive educational landscape. To achieve this, we emphasize and highlight distinctive selling points that set us apart from competitors.</p> <p>Our commitment to differentiation encompasses several key areas. First and foremost, we take pride in our innovative academic programs that are designed to meet the evolving needs of students and industries. These programs are tailored to provide a cutting-edge and forward-looking educational experience.</p> <p>Additionally, our research initiatives contribute to our differentiation strategy. By fostering a culture of inquiry and discovery, we aim to make significant contributions to knowledge and engage students in impactful research opportunities. This emphasis on research not only enhances the learning experience but also reinforces our commitment to academic excellence.</p> <p>Moreover, our focus on comprehensive student support services forms a crucial part of our differentiation strategy. We believe in going beyond traditional academic offerings to provide a supportive and enriching environment for our students. Whether through mentorship programs, counseling services, or career support, we aim to create a holistic educational experience that sets us apart.</p> <p>By consistently highlighting these unique selling points,</p>	

		<p>MITS strives to position itself as a distinctive and attractive choice for students seeking a high-quality, innovative, and supportive educational journey. Our differentiation strategy is a testament to our commitment to providing a well-rounded and unparalleled educational experience.</p>	
<b>26.0</b>		<b>Adaptability and Innovation</b>	
		<p>MITS recognize the dynamic nature of education and the importance of staying at the forefront of evolving trends. Our commitment to adaptability and innovation is a fundamental pillar of our approach to education.</p> <p>We understand that educational landscapes are continuously changing, driven by advancements in technology, shifts in learning preferences, and emerging industry needs. To stay competitive, MITS is dedicated to remain highly adaptable. This involves regularly assessing educational trends, understanding the evolving needs of students, and being responsive to changes in the broader educational environment.</p> <p>In embracing innovation, we prioritize the development and implementation of cutting-edge teaching methods and curriculum enhancements. This commitment is designed to create a dynamic and engaging learning experience for our students. Whether through the integration of technology, the exploration of new pedagogical approaches, or the development of interdisciplinary programs, MITS seeks to foster an environment where innovation in education is encouraged and embraced.</p> <p>Our adaptability and innovation strategy not only enhance the quality of education but also ensure that our graduates are well-prepared for the challenges of a rapidly changing world. By staying ahead of educational trends and incorporating innovative practices, MITS aims to provide a learning experience that is not only relevant and effective but also positions our institution as a leader in shaping the future of education.</p> <p>By implementing these strategies, a new University can proactively address potential risks, enhance its resilience,</p>	

		and establish a strong foundation for long term success. Regular evaluation and adaptation of these strategies are crucial to effectively manage risks in a dynamic educational landscape.  MITS is committed to proactively mitigate potential risks and ensure long-term success through strategic implementation. Our focus on risk management policies, technology infrastructure, market research, differentiation, adaptability, and innovation aims to build resilience. Regular evaluation and adaptation of these strategies are integral to our approach, allowing us to stay responsive in the ever-evolving educational landscape and maintain a strong foundation for sustained excellence.	
<b>27.0</b>		<b>Implementation plan</b>	
		Phased timeline for construction and development: We have initiated constructions of rooms in the first phase requirement of 2024-25 and the details are given below:	

**Table 20: Infrastructure Required: Phase I**

S.No	Description	No's
1	Class Rooms	26
2	Laboratories	4
3	Administrative Rooms	2
4	Amenities	8

**Note:** To be Completed by June 2024

**Table 21: Infrastructure Required: Phase II**

S.No	Description	No's
1	Class Rooms	20
2	Laboratories	4
3	Administrative Rooms	2
4	Amenities	6

**Note:** To be completed by November 2024.

**Table 22: Additional Infrastructure Required for Expansion**

Academic year	Additional intake	Requirement					Total
		Class Rooms	Tutorial rooms	Labs	Admin Block	Amenities	
2023-24	–	Already existing					
2024-25	780 (UG)+60 (PG)	12	6	6	4	4	20
2025-26	540 (UG)+60(PG)+10 Ph.D	10	2	6	5	3	16
2026-27	420 (UG) +240 (PG)+10 Ph.D	11	2	8	6	3	19
2027-28	960(UG)	16	3	8	6	5	22
2028-29	360 (UG)+90(PG)+ 10 Ph.D	6	6	4	3	2	15
		55	19	32	24	17	92

**Table 23: Additional Infrastructure Required for Expansion (Under construction / To be constructed)**

Academic year	Additional intake	Class Rooms	Tutorial rooms	Labs	Adm in Block	Amenities	Total	Remarks	
2023-24	–	Already existing						To be Completed by	
2024-25	780 (UG)+60 (PG)	19	6	6	4	8	43	June,2024	
2025-26	540 (UG)+60(PG)+10 Ph.D	13	4	6	5	6	34	November,2024	
2026-27	420 (UG) +240 (PG)+10 Ph.D	Construction of multi-storied building has been planned for which permission has been sought from Andhra Pradesh State Govt. Authorities. Inspection of the site has been completed and permission is awaited.							
2027-28	960 (UG)								
2028-29	360 (UG)+ 90(PG)+ 10 Ph.D								

28.0	<b><u>Resource allocation and project management</u></b>	
	<ol style="list-style-type: none"> <li>1. In the first phase of the constructions which has already started, an estimated amount of Rs. 693 lakhs will be spent.</li> <li>2. In the second phase of the construction, an amount of Rs. 582 lakhs is proposed to spend.</li> <li>3. In the third phase of the construction, an amount of Rs. 513 lakhs is proposed to spend.</li> </ol>	

**Table 24: Infrastructure Estimates**

INFRASTRUCTURE DETAILS					
APPROXIMATE ESTIMATE					
S.no	Blocks	Floor	Area (Sq Mt.)	Amount in lakhs	Time Frame
1	KK Block	G+3	4276.86	693	To be completed by June 2024.
2	NPN Block	C+G+2	3604.99	582	Will start on December 15th 2023 and will be completed by November 2024.
3	Research Block Extension-1	G+3	1932	312	Will start in March 2024 and will be completed by November 2024.
4	Research Block Extension-2	G+3	1244	200.88	Will start in March 2024 and will be completed by November 2024.
			<b>TOTAL</b>	<b>1787.88</b>	

<b>29.0</b>		<b>Marketing, Outreach and social media</b>	
	<b>29.1</b>	<b>Branding and Marketing Strategy</b>	
		Developing a branding and marketing strategy for a University involves understanding its unique value propositions, target audience, and goals. Here are the steps that are involved:	
	<b>29.2</b>	<b>Identify Unique Selling Proposition (USP)</b>	
		MITS stands out as the pioneer in the region in terms of academic excellence, research and innovation. The University shall focus on the advancements a student can make in his/her career by exposing them to the latest developments.	
	<b>29.3</b>	<b>Target Audience</b>	
		The target audience shall be in the initial years predominantly be drawn from the Rayalaseema region, but shall target the audience from across the country and also from the other third world countries.	
	<b>29.4</b>	<b>Compelling Brand Story</b>	
		MITS has started its journey of academic excellence with a humble beginning of 180 seats and has grown to 1860 seats over 25 years. With a continuous upward trajectory MITS	

		has excelled in drawing the best of the faculty well qualified and experienced not only across the country but from the globe. This has paved way for enhanced research, project funding, inventions, placements etc., and made its mark in the entire State. With Alumni scattered across the Globe working in industry, studying in Higher Education Institutes, MITS can find its mark in many of the developed countries. Accreditations and Certifications from various bodies prove its academic excellence for the stakeholders.	
	<b>29.5</b>	<b>Consistent Brand Identity</b>	
		The Institution shall continue the Logo of MITS, Color Palette, typography etc in all its marketing materials, online presence and the campus environment as MITS has already created its Brand Identity over the last 25 years.	
	<b>29.6</b>	<b>Marketing and social media</b>	
		MITS shall recruit Content Writers exclusively for promoting the University's offerings, achievements to the nearby community and all the stakeholders by exploring all the social media platforms and the Websites.	
	<b>29.7</b>	<b>Digital Presence and Search Engine Optimization (SEO)</b>	
		MITS shall engage the professional services for SEO Consultancy and create a user-friendly interface. MITS website already enjoys the patronage of lakhs of visitors and with the professional SEO and enhanced digital presence will be able to attract and facilitate the prospective students with transparent information.	
	<b>29.8</b>	<b>Events and Campus Tours</b>	
		MITS shall continue to organise workshops, seminars, conferences, open days, industrial visits, campus tours etc., in a much bigger way to provide hands-on experience to the students. The department-wise coordinators shall work as per the Strategic Plan deployment and engage students in wholesome skill development practice.	
	<b>29.9</b>	<b>Engage with Alumni and Current Students</b>	
		MITS enjoys the patronage of its strong Alumni who actively take part in Providing Project Works, Internships	



		and also Job Offers to our students. Further, they also are involved in our BoS, DAB, Guest Lectures etc. MITS shall focus on involving the active participation of the Alumni in acting as Brand Ambassadors not only for admissions but also in several Campus Activities that shall be taken up vigorously for going forward.	
	<b>29.10</b>	<b>Partnerships and Collaborations</b>	
		MITS, through its IIC and International Relations Office establishes partnerships and enters into MoUs with several Business Organisations and educational institutions in India and Abroad. MITS will strengthen the activity with greater impetus by recruiting additional staff exclusively for these activities.	
	<b>29.11</b>	<b>Measure and Adjust</b>	
		<p>MITS, as it expands its activities shall measure the performance of its marketing efforts using SMM (Social Media Measurement). MITS specifically shall be focusing on:</p> <ol style="list-style-type: none"> <li>1. Engagement Rate (No. of followers, No. of posts, comments, Shares, Likes, Saves, Clicks)</li> <li>2. Amplification rate</li> <li>3. Virality Rate</li> <li>4. REACH</li> <li>5. Impressions</li> <li>6. Video Views</li> <li>7. Video Completion rate</li> <li>8. Audience Growth Rate</li> <li>9. Click-through Rate (CTR) etc., by using appropriate software.</li> </ol>	

		<b>Monitoring and Evaluation</b>	
<b>30.0</b>		<b>Monitoring and evaluation mechanisms</b>	
	<b>30.1</b>	<b>Academic Programs: Course Evaluations</b>	
		We conduct course evaluations at regular intervals, including one midway through the semester (referred to as Phase I feedback) and another at the end of each semester (referred to as Phase II feedback) throughout the academic year.	

		<p>To streamline data collection, we utilize online survey tool named “Quia” software. This technology enables efficient data gathering, allowing us to analyze trends, identify correlations, and generate reports to facilitate informed decision-making.</p> <p>We ensure the consistency of the evaluation process, covering all pertinent aspects of the courses, including individual course assessments, instructor effectiveness, and course content. Additionally, we administer course exit surveys at the conclusion of each semester for every course.</p>	
	<b>30.2</b>	<b>Graduate Surveys</b>	
		<p>We conduct a graduate survey periodically, specifically once a year, to assess the employment status of our graduates, their job satisfaction, and whether they have pursued further education. This practice enables us to measure the success of our programs in preparing graduates for the workforce or advanced studies.</p>	
	<b>30.3</b>	<b>Program Reviews</b>	
-		<p>We have established specific criteria for monitoring and evaluating the goals and objectives of the program. This encompasses curriculum design, course outcomes, program outcomes, student success rates through CO-PO mapping analysis, and alignment with industry needs. Furthermore, we ensure that the program adheres to the standards set by relevant accrediting bodies such as NBA, NAAC, and others. We assess the adequacy of resources supporting the program, including facilities, technology, and library resources. Our commitment is to guarantee that students have access to the necessary tools for successful learning.</p> <p>To measure the effectiveness of the program, we utilize data from various sources, including student performance metrics, graduation rates, and alumni feedback. Findings are discussed in various administrative committees, such as the Department Advisory Board (DAB), Program Assessment Committee (PAC), Board of Studies (BoS), and Academic Council. Recommendations from committee members are received and considered for enhancing the program content.</p>	

<b>31.0</b>		<b>Research and Innovation</b>	
	<b>31.1</b>	<b>Research output tracking</b>	
		<p>We collect publication records on a monthly basis from each department to monitor research outputs. The collected data undergoes cross-verification with Scopus and Web of Science portals to maintain a comprehensive record of publications. The database is regularly updated to incorporate new publications. Additionally, we encourage faculty members to maintain comprehensive profiles on Vidwan, encompassing details on publications, patents, grants, and collaborations.</p> <p>Moreover, we conduct department-level research review meetings on a quarterly basis throughout the academic year. Faculty members are also encouraged to apply for government-sponsored projects from organizations such as DST, SERB, UGC, CSIR, ISRO, etc., or industry-sponsored projects like La-Fondation, to enhance research and development activities on our campus. We utilize grant tracking systems to monitor the submission and success rates of grant applications, aiding in the assessment of research proposal competitiveness and securing necessary funding for projects.</p>	
	<b>31.2</b>	<b>Impact assessment</b>	
		<p>We monitor the transfer of technology and the commercialization of innovations by tracking patents, licenses, startups, and industry partnerships that result from our research. Additionally, we highlight innovations in mainstream and social medias, such as newspapers and LinkedIn, and keep track of media coverage related to our research. This practice helps capture public interest and awareness, contributing to the societal impact of our work.</p>	
<b>32.0</b>		<b>Student Performance and Support Services</b>	
	<b>32.1</b>	<b>Retention Rates</b>	
		<p>We have implemented a robust student information system in the IMS portal to track and manage real-time information about students' enrolment, course progression, and graduation. This portal is monitored at various levels, including the course instructor, mentor, class teacher, and head of the department, to track the progress of each student.</p>	

	<b>32.2</b>	<b>Advising and counseling assessments</b>	
		We have started a Grievance Redressal Cell (GRC) to provide a mechanism to Students for redressal of their grievances on academic, non-academic matters, Admissions & Examinations. The Vice-Principal – Administration is nominated as the Co-ordinator for the Grievance Redressal Cell. The grievance can be lodged online at the website <a href="https://forms.office.com/r/vke9XhMFac">https://forms.office.com/r/vke9XhMFac</a> or send through e-mail to <a href="mailto:grc@mits.ac.in">grc@mits.ac.in</a> or in writing to "The Coordinator-GRC, MITS, Madanapalle - 517325". Further, we have placed suggestion boxes in strategic locations on campus where students can drop anonymous feedback. We also ensure that these boxes are regularly checked, and encourage students to provide constructive input.	
	<b>33.0</b>	<b>Institutional Effectiveness</b>	
	<b>33.1</b>	<b>Strategic plan assessments</b>	
		We collect data and assess it to ensure accuracy and relevance as we progress toward our goals. Review meetings are conducted at predetermined intervals to evaluate both short-term and long-term objectives. We identify areas where the institution/department excels and areas that may require further improvement. To facilitate this process, committees have been established at various levels to evaluate progress toward specific goals. Based on the recommendations from these committees, we formulate action plans for further improvements.	
	<b>33.2</b>	<b>Key performance indicators (KPIs)</b>	
		We ensure the continuous monitoring of Key Performance Indicators (KPIs) such as the student retention rate and graduation rate over time. We make certain that the parameters used to assess these KPIs align with accreditation standards and requirements. Additionally, we demonstrate compliance with accrediting bodies to uphold institutional credibility. Furthermore, we communicate the progress, successes, and any challenges our students may face to the entire institution via email. This practice fosters a culture of transparency, building trust and engagement among stakeholders.	

<b>34.0</b>		<b>Teaching and Learning</b>	
		<ul style="list-style-type: none"> <li>• <b>Classroom Observations</b> We encourage faculty members to reflect on their own teaching and provide self-assessments. Additionally, we evaluate teaching methods and the performance of instructors through annual performance-based appraisal meetings. Any identified areas for improvement are communicated through the head of the department. Furthermore, we have incorporated students' feedback on teaching effectiveness through online surveys.</li> <li>• <b>Assessment of Learning outcomes</b> The learning outcomes of each course are assessed through continuous evaluation, which includes mid-semester examinations and assignments, as well as semester end examinations for all the programs offered at our institution. We utilize Bloom's Taxonomy to structure the question papers. Additionally, we have developed a strategy to map the course outcomes of each course to achieve a target level.</li> </ul>	
<b>35.0</b>		<b>Evaluation Mechanisms</b>	
		<b>Surveys and Feedback</b> We use our institute's website portal ( <a href="https://mits.ac.in/newiqac1#ug-tab26">https://mits.ac.in/newiqac1#ug-tab26</a> ) to gather feedback from all stakeholders. The collected data is analyzed, and the compiled results will be communicated to the respective department/section in-charges. The feedback collected remains anonymous throughout the entire process.	
<b>36.0</b>		<b>External Reviews and Accreditation</b>	
		Accreditation bodies such as NBA or NAAC provide feedback and recommendations, highlighting strengths and suggesting areas for improvement. We develop action plans based on this feedback and implement them before their next visit to the institute.	
<b>37.0</b>		<b>Data Analysis</b>	
		We collect data from various sources, ensuring its accuracy, completeness, and proper documentation. This process typically involves extracting data from databases, spreadsheets, survey platforms, or other sources. After	

		verifying the accuracy of the data, we integrate information from multiple sources and analyze it to gain a better understanding.	
<b>38.0</b>		<b>Continuous Improvement</b>	
	<b>38.1</b>	<b>Action Plans</b>	
		We identify specific action steps needed to address each weakness. Subsequently, we break down larger initiatives into smaller, manageable tasks. Following this, we identify the resources and manpower required to implement the action plan. Each task is then assigned to the respective in-charge along with a deadline. Ensuring efficient allocation of resources to support improvement efforts, we communicate the identified weaknesses, the action plan, and the anticipated initiatives for the improvement to the stakeholders.	
	<b>38.2</b>	<b>Benchmarking</b>	
		We compare our institution's performance with that of peer institutions, considering factors such as the number of publications, published patents, and secured research funds to identify any gaps. Since 2020, we have been participating in the NIRF ranking under the engineering institutions category. We identify performance differences and assess whether MITS ranks above or below its peers. Additionally, we identify best practices and strategies employed by competing institutions that can contribute to enhance MITS's performance in both academic and research fronts. MITS has achieved a AAA rating from the National Program on Technology Enhanced Learning (NPTEL) consecutively for the seventh time. <b>Annexure 18.</b>	
	<b>38.3</b>	<b>Iterative Process</b>	
		We identify strengths and weaknesses through the evaluation process, setting clear improvement objectives based on the results. Subsequently, we develop a detailed action plan outlining steps to address weaknesses and enhance the institution's strengths. Responsibilities are assigned, timelines are set, and resources are allocated for the implementation of improvement initiatives. Implementation follows the identified changes and	

		improvements according to the action plans. A monitoring mechanism is established to track the progress of implemented changes, regularly assessing whether the initiatives achieve desired outcomes and meet established benchmarks. Feedback is collected from stakeholders, including students, faculty, staff, and alumni members, using it to gain insights into the impact of changes and identify areas that may need further refinement. Based on the collected feedback and ongoing monitoring, we remain prepared to adapt and refine strategies, policies, and programs. This may involve in making adjustments to implementation plans or revisiting certain aspects of the improvement initiatives, iterating through the cycle of evaluation, improvement, and refinement.	

		<b>Strategies</b>	
<b>39.0</b>		<b>Strategies to adopt for the growth of the MITS deemed to be University</b>	
<b>39.1</b>		<p><b>SWOC Analysis:</b> Involves examining the strengths, weaknesses, opportunities, and challenges or constraints.</p> <p><b>Strengths</b>  Technical Expertise, Research and Innovation, Industry Partnerships, State-of-the-Art Facilities, and Diverse Programs</p> <p>S1. Committed, Proactive &amp; Visionary Management to take the Institution to greater heights.  S2. Guidance from Distinguished Academic &amp; Industry Experts and support from Alumni.  S3. MITS is accredited by NAAC with A+ grade and all the eligible UG &amp; PG Programmes are accredited by NBA.  S4. Institution has Autonomous status since 2014 and also 2(f) &amp; 12 (B) status granted by UGC.  S5. Highly qualified, committed and experienced faculty members from premier Institutions.  S6. Experienced, efficient and effective administration of the Institution.  S7. Good Research Publications and Consultancy</p>	

activities.

S8. Institutional support to the faculty in Knowledge Development, Research & Innovation.

S9. Good infrastructure with state-of-the-art IT Infrastructure and e-learning Facilities.

S10. Strong student culture in pursuing MOOCS, resulting in nation-wide recognition.

S11. Support for National & International Internships, Skill Development and Training & Placements.

S12. Active Industry Institute Interaction cell connects students and faculty members with Industry in various aspects.

S13. Incentives for Meritorious Students from Institute and support for getting Scholarships.

S14. Eco-friendly and lush green Campus.

S15. Consistently full admissions in UG & PG programmes.

S16. MITS has excellent Faculty diversity

**Weaknesses:**

Resource Constraints, Curriculum Agility, Faculty Shortage, Accessibility and Outdated Infrastructure:

W1. Communication skills of students coming from rural background.

W2. Currently no PG programmes offered in Engineering disciplines.

W3. Gender imbalance in staff.

W4. Lack of diversity in student admissions.

W5. Residential facility for staff is lacking.

W6. Limited placement in core Industry.

W7. Advanced research facility is lacking in core domain.

W8. Limited foreign collaborations in R&D activities.

W9. Indoor stadium facility for sports yet to be established.

**Opportunities:**

Emerging Technologies, Global Collaborations, Online



		<p>Education, Public-Private Partnerships, Skill and Niche development Programs.</p> <p>O1. No Deemed to be University in Rayalaseema region which has more than 2 crore population.  O2. To produce more Ph.D qualified candidates since the region faces dire scarcity.  O3. Establishment of Centres of Excellence.  O4. To attract students who are migrating to Universities in other states for pursuing quality higher education.  O5. Enhancement of International Student/faculty exchange programmes and research collaborations.  O6. Enhancement of Entrepreneurial, Innovation and Incubation facilities.  O7. Improvement of Alumni networking towards Academic and Placement activities.  O8. Scope for offering agriculture related courses for the benefit of the community.  O9. Initiating short term job oriented certificate courses.  O10. Accreditations from International bodies.  O11. Enhancing close interaction with core companies.  O12. Engagement of faculty from Foreign Countries.</p> <p><b>Challenges:</b></p> <p>Rapid Technological Changes, Competition, Regulatory Compliances, Changing Demographics: and Funding Uncertainty</p> <p>C1. Fast changing Technologies and Educational Eco-system.  C2. Student/faculty start-ups.  C3. Bridging the skill gap between students and industry requirements.  C4. Attracting core engineering companies for placement.  C5. International student admissions.  C6. Funded Research projects and commercialisation of Patents.</p>	

39.2	<b><u>Curriculum alignment for Academic Excellence</u></b>	
	<b>Strategy:</b> <ol style="list-style-type: none"> <li>1. Non-engineering departments that support the overall growth of the students such as liberal arts will be built.</li> <li>2. Student success will be the central mantra for MITS's development and growth.</li> <li>3. Rebuild external advisory panels at all levels to inform curriculum development</li> <li>4. Admission decision with result from a combination of test scores and essays</li> </ol>	
39.3	<b>Create a learning environment conducive to student success</b>	
	<b>Strategy</b> <ol style="list-style-type: none"> <li>1. Leverage e-learning technologies through flipped class rooms to accelerate student learning and help to have retention.</li> <li>2. Create the Center for Teaching and Learning in the first year. The aim of the center is to collaborate with leading institutions in the world on pedagogical improvements, especially in engineering education.</li> <li>3. Institutionalize project-based learning across courses in all disciplines.</li> <li>4. Establish supplemental material for the students who struggle.</li> <li>5. Create mentoring programs for faculty to improve teaching quality.</li> </ol>	
39.4	<b>Recruit and retain a nationally/internationally recognized diverse, learning-centered faculty and staff.</b>	
	<b>Strategy:</b>	
	<ol style="list-style-type: none"> <li>1. Create an eminent scholars' program.</li> <li>2. Incorporate "learning centeredness" into an enhanced professional development program for faculty and staff.</li> <li>3. Develop a world-class review process for faculty and staff to enable their professional development.</li> <li>4. Support international partnerships and networking opportunities to draw more international faculty into MITS</li> </ol>	

	<b>39.5</b>	<b>Research and Innovation</b>	
		Institutionalize research and scholarship in innovative ways that are important to the region, nation, and to the global partners. Create partnerships for faculty with national/international universities. Create opportunities for faculty with national/international business and foundation.	
	<b>39.6</b>	<p><b>Proposed Research Centres</b></p> <p>The proposed MITS Deemed to be University will host in future as a part of its expansion plans. The following research centres that cater to diverse disciplines and societal needs are:</p> <p><b>Interdisciplinary Research Center:</b> Focused on collaborative research across various disciplines, promoting innovation and problem-solving by combining expertise from different fields.</p> <ol style="list-style-type: none"> <li>1. <b>Health and Medical Research Center:</b> Conducting research on diseases, medical treatments, public health, and healthcare policies, aiming to improve healthcare practices and outcomes.</li> <li>2. <b>Environmental Sustainability Center:</b> Studying climate change, renewable energy, conservation efforts, and sustainable practices to address environmental challenges.</li> <li>3. <b>Data Science and AI Research Center:</b> Exploring artificial intelligence, machine learning, big data analytics, and their applications in various fields like healthcare, finance, and technology.</li> <li>4. <b>Social Sciences Research Center:</b> Engaging in research on societal issues, cultural studies, economics, psychology, sociology, and anthropology, contributing to social policy and understanding human behavior.</li> <li>5. <b>Engineering and Technology Innovation Center:</b> Focusing on cutting-edge technology,</li> </ol>	

		<p>engineering solutions, robotics, nanotechnology, and material sciences to drive technological advancements.</p> <p>6. <b>Business and Economic Research Center:</b> Conducting studies on economics, business strategies, entrepreneurship, finance, and market trends, aiding in policy-making and business development.</p> <p>7. <b>Education and Pedagogy Research Center:</b> Investigating effective teaching methods, curriculum development, educational technology, and learning sciences to enhance educational practices.</p> <p>8. <b>Arts and Humanities Center:</b> Supporting research in literature, history, philosophy, arts, languages, and cultural studies, contributing to human expression and understanding.</p> <p>9. <b>Cybersecurity and Digital Privacy Center:</b> Focused on research in cybersecurity, digital forensics, cryptography, and privacy protection in the digital age.</p> <p>10. <b>Policy and Governance Center:</b> Conducting research on public policy, governance models, political science, and international relations to inform policy-making and societal development.</p> <p>11. <b>Biotechnology and Biomedical Research Center:</b> Engaged in research related to genetics, biomedicine, bioengineering, and pharmaceuticals, advancing healthcare and life sciences.</p> <p>These centers serve as hubs for cutting-edge research, collaboration with industry partners, attracting funding, nurturing talent, and contributing to the academic reputation and societal impact of the University. The choice of research centers often aligns with the strengths and strategic priorities of the institution and aims to address current and future challenges in various fields.</p>	

	<b>39.7</b>	<b>Build a national and international research reputation.</b>	
		<p>Strategy:</p> <ol style="list-style-type: none"> <li>1. Create Office of Research and Sponsored programs. The Center's aim is to help in writing winning proposals, contract negotiation, and compliance upon receiving grants/contracts.</li> <li>2. Enhance currently recognized programs that can meet regional and national needs.</li> <li>3. Collaborate with internal and external partners to obtain funding to grow research enterprise.</li> <li>4. Create more endowed chairs and eminent scholars.</li> <li>5. Begin to build national and international reputations for centers of excellence.</li> </ol>	
	<b>39.8</b>	<b>Foster discovery at all levels in the educational pipeline</b>	
		<p>Strategy</p> <ol style="list-style-type: none"> <li>1. Infuse research culture in all programs.</li> <li>2. Institutional data research department will be set up to support tracking analytics on student progress in the curriculum, alumnae relationships, and student recruitment.</li> <li>3. Create and support opportunities for graduate research in all disciplines.</li> <li>4. Create internships and cooperative education programs for all students.</li> <li>5. Provide opportunities for pre-college students to engage in learning through doing.</li> </ol>	
	<b>39.9</b>	<b>Translate research and development efforts into jobs, new products and economic development throughout the nation.</b>	
		<p>Strategy:</p> <ol style="list-style-type: none"> <li>1. Create infrastructure to support faculty commercialization.</li> <li>2. Facilitate faculty, staff and students being embedded in companies.</li> <li>3. Respond to national research opportunities.</li> <li>4. Foster a research environment that creates more entrepreneurs through an on-campus incubator.</li> </ol>	

	<b>39.10</b>	<b>Community Engagement</b>	
		Promote and support social, cultural and economic development within the region through our academic enterprise and our Centers of Excellence.	
	<b>39.11</b>	<b>Infuse community engagement into the curriculum for all programs.</b>	
		<p>Strategy:</p> <ol style="list-style-type: none"> <li>1. Institutionalize the use of community leaders and experts in the classroom and in student activities.</li> <li>2. Engage community experts in curriculum development and review.</li> <li>3. Infuse community-based learning opportunities into all programs (e.g., practicum, service learning, class projects, distance learning.)</li> </ol>	
	<b>39.12</b>	<b>Establish MITS’s presence within our region and nation in ways that improve the communities we serve</b>	
		<p><b>Strategy:</b></p> <ol style="list-style-type: none"> <li>1. Create external advisory board for newly created Research and Sponsored Programs</li> <li>2. Conduct bi-annual economic impact studies of MITS.</li> <li>3. Use faculty, students and staff to support and promote community groups including but not limited to arts, economics, educations, and health.</li> </ol>	
	<b>39.13</b>	<b>Offshore / Off Campuses</b>	
		MITS shall establish offshore / Off campuses as permitted by UGC and the Ministry of Education and as and when eligible to do so.	
	<b>39.14</b>	<b>Facilitate the adoption of MITS as the “region’s” University. In later phases MITS will be the “nation’s” University</b>	
		<p>MITS aims to be in the top 50 of the world’s young Universities, below 50 years of existence.</p> <p>Strategy: Community and campus facilities will be created to</p>	

		support housing for students and faculty, establishing a food court to support dining options involving cuisines from around the nation and the world, Foster and support entertainment/athletic options on campus and throughout the community	
	<b>39.15</b>	<b>Organizational Excellence</b> Be known and admired for our organizational integrity with respect to our financial stability, the administrative infrastructure and transparency in our governance processes	
	<b>39.16</b>	Establishment of Online Technology Platform within the regulatory framework for promoting value added courses, audit courses and certification courses for the students, faculty and working professionals  Online teaching and learning rely on various technologies and pedagogies to create effective and engaging educational experiences.  <b>We will use the following technologies:</b>  1. <b>Learning Management Systems (LMS):</b> Platforms such as SWAYAM, Moodle, Canvas, or Blackboard as central hubs for course materials, discussions, assignments, and grading. 2. <b>Video Conferencing Tools:</b> Applications such as Zoom, Microsoft Teams, or Google Meet for live lectures, discussions, and virtual classrooms. 3. <b>Content Creation Tools:</b> Software for creating multimedia content, like presentations, videos, podcasts, or interactive simulations, enhances engagement. Tools include Canva, Adobe Creative Suite, or Camtasia may be used. 4. <b>Collaboration Tools:</b> Platforms like Google Workspace or Microsoft Office 365 will be used for shared document editing, real-time collaboration, and communication among students and teachers. 5. <b>Assessment and Feedback Tools:</b> Online quizzes and exams within the LMS to specialized software	

like Turnitin for plagiarism checks and rubric-based grading systems will be used.

6. **Virtual Reality (VR) and Augmented Reality (AR):** Emerging technologies that allow for immersive learning experiences, particularly in fields like healthcare, engineering, and sciences will also be used.

**We will use Pedagogies such as:**

1. **Asynchronous Learning:** Providing materials and activities that students can access at their own pace, facilitating flexibility and accommodating diverse schedules.
2. **Synchronous Learning:** Live sessions for lectures, discussions, and real-time interaction, fostering engagement and immediate feedback.
3. **Hybrid/Blended Learning:** Combining online and in-person elements to maximize benefits from both modalities.
4. **Active Learning Strategies:** Encouraging participation through group projects, discussions, case studies, and problem-solving exercises to deepen understanding.
5. **Adaptive Learning:** Customizing learning paths based on individual student progress and learning styles, often facilitated by AI-powered systems.
6. **Social Learning:** Creating online communities, discussion forums, or peer collaboration platforms to foster interaction and shared learning experiences.
7. **Gamification and Microlearning:** Using game elements or breaking content into smaller, easily digestible modules to increase engagement and retention.

The successful implementation of online teaching and learning involves a thoughtful combination of these technologies and pedagogical approaches, tailored to the needs of the students and the subject matter being taught. Flexibility, accessibility, and interactivity are key considerations in designing effective online educational experiences.



	<b>39.17</b>	<b>Encourage and support faculty and staff professional development and wellness programs.</b>	
		<b>Strategy:</b> <ol style="list-style-type: none"> <li>1. Enhance leadership training.</li> <li>2. Enhance staff development opportunities.</li> <li>3. Empower employees through engagement in University-wide initiatives.</li> <li>4. Achieve and maintain competitive salaries and benefits.</li> <li>5. Enhance wellness initiatives</li> </ol>	
	<b>39.18</b>	<b>Enhance fiscal and operational effectiveness.</b>	
		<b>Strategy:</b> <ol style="list-style-type: none"> <li>1. Generate consistent positive operating margins.</li> <li>2. Employ data-analytics based approach for enrollment management for both regional, national, and international student recruitment.</li> <li>3. Performance evaluation of faculty and staff, the promotion of faculty to senior ranks, and support for the retention of high-quality faculty and staff will be systematized.</li> <li>4. Establish and grow an annual pool of funds for strategic investment.</li> <li>5. Continuously evaluate the effectiveness of support services.</li> <li>6. Create Annual Report.</li> </ol>	
	<b>39.19</b>	<b>Generate increased revenue</b>	
		<b>Strategy:</b> <ol style="list-style-type: none"> <li>1. Improve student retention.</li> <li>2. Grow enrollment to capacity.</li> <li>3. Execute comprehensive capital (fund-raising) campaign.</li> <li>4. Monetize public/private partnerships with community.</li> <li>5. Solicit and response to student, faculty, employer and community-partner feedback.</li> </ol>	

	<b>39.20</b>	<b>Infrastructure Relevance</b>	
		Develop and support the human, financial and physical resources required to accomplish the University's mission and vision.	
	<b>39.21</b>	<b>Enhance the effectiveness of facilities/technology investments</b>	
		<b>Strategy:</b> <ol style="list-style-type: none"> <li>1. Develop a system of accountability for capital investments.</li> <li>2. Conduct bi-annual technology surveys.</li> <li>3. Establish a deferred maintenance program.</li> <li>4. Continually address housing options, dining options, library facilities and leisure activities.</li> </ol>	
	<b>39.22</b>	<b>Establish and enhance strong fiscal oversight</b>	
		<b>Strategy:</b> <ol style="list-style-type: none"> <li>1. Enhance the effectiveness of the Office of Internal Audit.</li> <li>2. Develop the Office of Communication.</li> <li>3. Fund raising/development infrastructure will be created for generating additional resources for MITS's growth.</li> </ol>	
	<b>39.23</b>	<b>Establish a system of shared governance</b>	
		<b>Strategy:</b> <ol style="list-style-type: none"> <li>1. Engage faculty and staff in University oversight.</li> <li>2. Evaluate faculty and staff recruiting and retention programs.</li> <li>3. Enhance usefulness of annual performance evaluations.</li> <li>4. Publish a MITS University Annual Report</li> </ol>	
	<b>39.24</b>	<b>Expected outcomes and Benefits</b>	
		<p>Establishment of the University will give opportunity to the residents of the Rayalaseema region to have quality technical and general education to start with which will help them to have a better quality of life.</p> <p>In course of time, this University will impart high</p>	

		quality of education to the potential students of the nearby states as well as national and international students.	

		<b>Operational</b>	
<b>40.0</b>		<b>Recruitment plan for students and faculty</b>	
	<b>40.1</b>	<b>Student Admission</b>	
		<p>A comprehensive Student Admission Plan is crucial for the effective establishment and functioning of a prospective Deemed to be University.</p> <p>This plan delineates the University's goals, strategies, and measures to attract, admit, and retain a diverse and highly qualified student population. Serving as a guiding framework, the admission plan guarantees the synchronization of the University's mission and academic objectives with the processes of recruitment and enrolment.</p> <ol style="list-style-type: none"> <li>1. The primary aim is to enroll students who demonstrate academic capability and a drive to excel in their chosen fields of study.</li> <li>2. Foster a diverse student body, reflecting various backgrounds, cultures, and perspectives to cultivate an inclusive and enriching academic environment.</li> <li>3. Develop an admission process centred on students, offering support and guidance to applicants throughout their admission journey.</li> <li>4. Guarantee the integrity, transparency, and fairness of the admission process by adhering to ethical standards and regulations.</li> <li>5. Harmonize the admission plan with the University's strategic goals and academic programs, ensuring a uniform and cohesive approach to enrolment.</li> </ol>	
	<b>40.2</b>	<b>Action Plans: Establish Admission Criteria</b>	
		<ol style="list-style-type: none"> <li>1. Clearly outline and establish comprehensive admission criteria for each academic program, encompassing prerequisites, minimum academic standards, and additional requirements that involve ranks / scores secured based on University Conducted Entrance Tests / JEEE Mains.</li> </ol>	

		2. Create a weighted scoring system designed to assess applicants, considering their academic accomplishments, extracurricular activities, and other pertinent factors.	
	<b>40.3</b>	<b>Marketing and Outreach</b>	
		<ol style="list-style-type: none"> <li>1. Formulate an all-encompassing marketing strategy aimed at promoting the University and its programs to a broad spectrum of potential applicants.</li> <li>2. Employ digital marketing, social media platforms, and traditional advertising channels to connect with prospective students.</li> <li>3. Take part in educational fairs, webinars, and various events to interact with potential applicants and furnish information about the University.</li> <li>4. Collect Database of students currently enrolled for Higher School Education (+2) across State Board / Central Board Schools.</li> </ol>	
	<b>40.4</b>	<b>Online Application System</b>	
		<ol style="list-style-type: none"> <li>1. Introduce a streamlined and user-friendly online application system, enabling applicants to effortlessly submit their data, monitor application status and communicate with admissions staff.</li> <li>2. Guarantee the system's security, safeguarding applicants' personal information, and offering assistance for any technical issues.</li> </ol>	
	<b>40.5</b>	<b>Admission Counselling</b>	
		<p>Provide counselling services for prospective students, guiding them through the application process, elucidating program requirements, and addressing any questions or concerns they may have.</p> <p>Offer support to applicants who may need special accommodations due to disabilities.</p>	
	<b>40.6</b>	<b>Admissions Committee</b>	
		<ol style="list-style-type: none"> <li>1. Establish an admission committee composed of competent faculty and staff tasked with assessing applications.</li> </ol>	

		2. Provide training to committee members on admission criteria and ethical practices to uphold consistency and fairness in decision-making.	
	<b>40.7</b>	<b>Orientation and on boarding</b>	
		<ol style="list-style-type: none"> <li>1. Conduct a thorough orientation program for accepted students to ease their integration into the University community.</li> <li>2. Offer resources and support services to assist students in achieving success both academically and socially.</li> </ol>	
	<b>40.8</b>	<b>Feedback and Continuous Improvement</b>	
		<p>Gather input from applicants, accepted students, and faculty/staff engaged in the admission process to pinpoint areas for improvement.</p> <p>Assessment, admission criteria and procedures should be done by data guided through earlier feedback provided.</p>	
	<b>40.9</b>	<b>Compliance and Reporting:</b>	
		<ol style="list-style-type: none"> <li>1. Verify that the admission process adheres to applicable laws, regulations, and accreditation standards.</li> <li>2. Consistently communicate admission statistics and outcomes to University stakeholders and relevant authorities.</li> <li>3. By executing this Student Admission Plan, the envisioned Deemed University can strive to achieve its goals of academic excellence, diversity, inclusivity, and ethical practices. This involves attracting and retaining a high space caliber student body that aligns seamlessly with the institution's mission and objectives.</li> </ol>	
	<b>40.10</b>	<b>Intake &amp; Reservation policy:</b>	
		<p>Seats will be allocated for admission in UG, PG, and PhD programs in accordance with the guidelines issued by the regulatory body.</p> <ol style="list-style-type: none"> <li>1. The State Government/ UT/ Commissioner of Technical Education/ Directorate of Medical</li> </ol>	

		<p>Education will ensure a 10% reservation for Economically Weaker Sections (EWS) as per the reservation policy for admission, effective from the Academic year 2019-20, without impacting the reservation percentages for SC/ ST/ OBC/ General categories.</p> <p>2. Following the norms of the Commissioner of Technical Education, Govt. of Andhra Pradesh, admission for B.Tech, M.Tech and Ph.D will be conducted through Joint Entrance Exam (JEE)-Mains-I / II or a Separate Entrance exam by the deemed-to-be University.</p> <p>3. Foreign students gain admission through the Ministry of External Affairs (GOI) Quota.</p>	
<b>41.0</b>		<p><b>Faculty Recruitment</b> Efforts will be made to induct the best faculty following the norms of UGC as they prevail</p>	
	<b>41.1</b>	<p><b>Recruitment plan for Faculty</b></p>	
		<p>The success of any reputable institution hinges on its faculty. Acknowledging this, the institution is committed to maintain a pool of distinguished faculty members who possess high caliber in both research and teaching. We will actively promote the recruitment and retention of exceptional faculty by offering increased rewards / incentives for excellence in both teaching and research. Given the emphasis of the NEP 2020 on scale, substantial investment in building a substantial and diverse faculty strength across multiple disciplines is imperative as we strive for excellence.</p> <ol style="list-style-type: none"> <li>1. Developing a faculty recruitment policy and strategy to fulfil the academic plan requirements and attain a faculty-student ratio of 1:15.</li> <li>2. Aspiring to become a world-class institution, having a robust community of students and faculty.</li> <li>3. Proposing the recruitment of faculty members from diverse backgrounds, including industry, government, non-profit organizations, and abroad.</li> </ol>	

41.2	<b>Action Plans</b>	
	<ol style="list-style-type: none"> <li>1. <b>Faculty size:</b> Refining the faculty composition in terms of quantity, quality, and competence is a priority. MITS is committed to ensure that each school within the University possesses a sufficient number of faculty resources dedicated to both teaching and research. To facilitate this, the Institute will establish two distinct tracks for faculty: the Academic track and the Research track, each with its own Key Performance Indicators (KPIs).</li> <li>2. <b>Faculty composition:</b> To achieve a faculty-student ratio of 1:15, the University, beyond conventional recruitment, aims to draw in distinguished faculty members. These candidates from reputed National / International organizations will be invited to serve as visiting professors in centres of excellence. Their involvement is expected to attract young scholars to their respective disciplines, thereby enhancing the research output of the University. The institution aims to enhance the diversity of its faculty, both in terms of gender and geographical representation.</li> <li>3. <b>Faculty internationalization:</b> The institution's approach involves recruiting professors and associate professors who possess International experience. The strategy commences with appointing international faculty members as visiting professor positions and subsequently establishing regular positions.</li> <li>4. Inviting experts from government, industry, and non-profit organizations for specialized certificate/diploma programs.</li> <li>5. Attracting researchers and faculty members with interests in multidisciplinary fields by providing seed grant to conduct research</li> <li>6. <b>Hiring of Adjunct Faculty:</b> Regarding faculty recruitment, the institution strives for a composition wherein approximately 90% are full-time faculty members. Within the remaining 10%, which includes visiting/adjunct faculty, the goal is to have half from foreign exchange programs and the other half from the industry.</li> <li>7. <b>Industry Adjunct Faculty:</b> The institution will utilize its network of connections with the industry and alumni to engage industry professionals as adjunct faculty members.</li> </ol>	

		<b>Outreach</b>	
<b>42.0</b>		<b>Community engagement initiatives</b> <b>Education and outreach programs: K-12 Education Partnerships</b>	
		<p>MITS will host educational activities to engage the school students of Andhra Pradesh. This could include science fairs, workshops, summer camps, innovation fairs, and mentorship programs.</p> <p>Also, to conduct family workshops, information sessions, and events to build a supportive community around K-12 education. Explore ways to leverage technology for education and engage in partnership with K-12 institutions towards online resources, virtual sessions, or technology-based learning tools.</p> <p>Focusing on enhancing school performance and providing career guidance to students for their future studies. Facilitating rural students in pursuing quality higher education by deputing a team of faculty members annually to counsel students.</p>	
<b>43.0</b>		<b>Continuing Education for Adults</b>	
		<p>Ensure that continuing education programs are affordable and accessible. Explore financial aid options, discounts, or partnerships with local businesses to support adult learners. Provide workshops and seminars that focus on professional development, leadership skills, and career advancement. Collaborations with industry experts and professionals to deliver relevant content. Develop a targeted marketing strategy to reach the adult community. Utilize social media, community events, and local media to promote the continuing education programs offered by the University. Organizing training programs for youth and the farming community to develop their technical skills, thereby improving manpower, employability, and economic stability.</p>	
<b>44.0</b>		<b>Health and Wellness Initiatives</b>	
		<ul style="list-style-type: none"> <li>• <b>Health clinics and services</b></li> </ul> <p>Organize health fairs and wellness events to provide free</p>	



		<p>health screenings, consultations, and educational resources. Collaborate with local health organizations and professionals to enhance the scope and impact of these events. Develop and promote preventive health programs focused on areas such as nutrition, exercise, mental health, and chronic disease management. Offer workshops, classes, and resources to empower community members to prioritize their health. Broadcast awareness programs on Health, Education and Agriculture etc. for the benefit of the society through Community Radio Station 90.8 MHz.</p> <ul style="list-style-type: none"> <li> <p><b>Fitness and wellness programs</b></p> <p>Provide health services and wellness programs to the community, including free health clinics, fitness classes, and nutrition workshops. Partner with healthcare professionals and organizations to enhance the impact of health initiatives. Partner with local fitness professionals, trainers, and wellness experts to design and implement programs. Collaborate on workshops, classes, and events that cater to a variety of fitness levels and interests. Develop outdoor fitness spaces, such as walking trails, fitness parks, or outdoor workout areas. These spaces will encourage physical activity and provide opportunities for community members to exercise in a natural environment. Host group fitness classes will be conducted that cater to various fitness levels and preferences. This could include yoga, dance, aerobics, or specialized classes for specific age groups or health conditions. Organize community sports leagues, tournaments, marathon, or recreational teams to promote teamwork and social interaction.</p> </li> </ul>	
<b>45.0</b>		<b>Cultural and Arts Initiatives:</b>	
	<b>45.1</b>	<p><b>Arts Galleries and Exhibitions</b></p> <p>Host exhibitions specifically for student artworks. This provides a platform for emerging artists and contributes to the artistic development of students within the University and the broader community. Extend the gallery experience beyond the walls by incorporating public art installations on campus. These installations can serve as a year-round showcase of creativity and engage a broader audience. Embrace digital platforms to extend the reach of exhibitions. Share virtual tours, artist interviews, and behind-the-scenes</p>	

		content online to engage those who may not be able to visit in person.	
	<b>45.2</b>	<b>Performing Arts Events</b>	
		Collaborates with local cultural institutions, artists, and performers to organize events, exhibitions, and performances. Showcase the talents of both University and community members to promote cultural exchange.	
	<b>46.0</b>	<b>Research and Innovation</b>	
	<b>46.1</b>	<b>Community-based research</b>	
		<p>The institute will conduct research projects in collaboration with community organizations to address real-world issues. Involve community members in the research process to ensure that the findings are relevant and applicable to local needs.</p> <p>The institution emphasizes that the research output from various departments should possess a tangible impact on society. Close collaboration between researchers and live labs is encouraged to identify impactful projects.</p> <p>Departments are encouraged to collaborate with industry in identifying research projects. The institution aims to support industries by disseminating research output through conferences and workshops where faculty members will share their findings.</p>	
	<b>46.2</b>	<b>Incubators and innovation Hubs</b>	
		Establish partnerships with local businesses, startups, government agencies, and non-profit organizations. This collaboration can bring diverse perspectives, resources, and opportunities for joint research and innovation. Conduct open innovation challenges or competitions that invite community members to propose solutions to specific problems. This encourages creativity and involvement from a wide range of individuals. Create specialized innovation hubs tailored to specific industries or sectors relevant to the community. This could include areas such as healthcare, technology, sustainability, or social innovation.	

47.0	<b>Volunteerism and Service Learning</b>	
	<ul style="list-style-type: none"> <li>• <b>Service-Learning Programs</b> As a part of the final year project, our students actively take part to find solutions to community problems. To achieve this, they collaborate with the local organizations like municipality and/or agencies to identify the projects that align with the academic goals.</li> <li>• <b>Volunteer Opportunities</b> Establish a University-wide volunteer program that connects students, faculty, and staff with local community organizations. Promote volunteer opportunities through campus-wide communication channels.</li> </ul>	
48.0	<b>Economic Development and Support</b>	
	<ul style="list-style-type: none"> <li>• <b>Business Incubators</b> Develop physical spaces on or near the University campus dedicated to business incubation. Provide shared offices, co-working spaces, and meeting rooms equipped with necessary resources for startups. Allow incubator participants access to University resources, including research facilities, labs, libraries, and mentorship from faculty members. This can add significant value to the startups' development. Offer legal and business support services to assist startups in navigating regulatory requirements, intellectual property issues, and other legal considerations.</li> <li>• <b>Job Fairs and Training</b> Organize regular job fairs on campus or in collaboration with community venues. Invite a diverse range of employers to participate, representing various industries and, job sectors. Consider hosting virtual job fairs to reach a broader audience, especially in situations where in-person events may not be feasible. Use online platforms to connect job seekers with employers. Conduct skills development workshops that focus on in-demand skills within the local job market. These workshops can cover topics such as digital literacy, communication skills, and industry-specific training.</li> </ul>	

<b>49.0</b>		<b>Environmental Sustainability</b>	
		<ul style="list-style-type: none"> <li>• <b>Environmental Education</b> Offer educational workshops and seminars on various environmental topics, such as climate change, biodiversity, conservation, and sustainable living practices. Invite experts, professors, and community leaders to lead these sessions. Develop outdoor learning spaces in the University campus that can be used for environmental education programs. These spaces could include gardens, nature trails, or eco-friendly demonstration areas. Organize nature walks, bird-watching tours, or eco-tours in nearby natural areas. Provide opportunities for community members to connect with the local environment and learn about local flora and fauna.</li> </ul>	
<b>50.0</b>		<b>Clean-Up campaigns</b>	
		<p>The NSS unit of the University will conduct ongoing extension activities in the adopted villages throughout the year.</p> <p>Identify areas within the community that need clean-up, such as parks, canals, streets, or urban/rural spaces. Consider areas with visible litter or those impacted by environmental degradation. Launch public awareness campaigns leading up to the clean-up events. Use posters, social media, and community newsletters to inform residents about the clean-up schedule, goals, and how they can participate. Establish a regular schedule for clean-up events, whether monthly, quarterly, or seasonally. Consistency encourages ongoing community involvement and contributes to a sustained impact.</p>	
<b>51.0</b>		<b>Community Engagement Processes:</b>	
	<b>51.1</b>	<ul style="list-style-type: none"> <li>• <b>Partnership and collaboration</b> MITS will collaborate with local organizations, government agencies, and community groups to execute community involved initiatives and also leverage their expertise, resources, and networks.</li> <li>• <b>Needs assessment</b> MITS will conduct a survey through Rural Immersion Program to understand the specific concerns, i.e. environmental, educational, health, cultural, economic etc., within the community and tailor need based campaigns to</li> </ul>	

		address those issues effectively.	
	<b>51.2</b>	<b>Engagement Events</b>	
		Every department is required to engage in a minimum of two extension and outreach initiatives annually like Community gathering and Hosting forum.  This effort contributes to a sustainable environment over time.	
	<b>51.3</b>	<b>Impact assessment</b>	
		MITS collects feedback from participants, community members, and other stakeholders through its NSS volunteers. The Institute also uses surveys to measure satisfaction, perceived impact, and areas for improvement. Maintain detailed documentation of all activities, events, and outcomes. Keep records of partnerships formed, resources utilized, and any challenges faced during implementation. Develop a comprehensive report summarizing the findings of the evaluation.	
	<b>52.0</b>	<b>Regulatory and Compliance Aspects</b>	
		MITS is a NAAC A+ Grade Institution since AY 2021-22. It has a dedicated cell on Planning, Approvals, Accreditations and Ranking Cell (PAARC) which looks after all type of accreditations, certifications, approvals and prepares the strategic plan. The outcome of the cell is quantified by NBA Accreditations of all the eligible UG and PG programs.  The Civil Engineering Laboratories are NABL ( <b>Annexure 19</b> ) Accredited conforming to ISO 17025:2017 guidelines. The PAARC also monitors all the performance metrics which are essential for various rankings. NIRF (Engineering.) ranked the institute in the band of 251-300 in the academic year 2022-23. MITS has maintained ISO 9001 certification and in the year 2023 applied for ISO 21001 certification applicable for Educational Institutions. Audit has been completed and the final outcome is awaited. MITS maintains all licenses required to function. Institute has fire safety license which is valid till May 2027. There are 28 paid software licenses and 32 open source software licenses essential for running all programs.	

<b>53.0</b>		<b>Conclusions</b>	
	<b>53.1</b>	MITS is a UGC-approved autonomous institution established in 1998 on a sprawling 110155.43 m <sup>2</sup> (27.22-acre) campus on Madanapalle – Kadiri road. This document is a detailed project report (DPR) on developing MITS as a Deemed to be University.	
	<b>53.2</b>	<b>The Next Steps</b>	
		<p>We envision our path in three phases. Phase one, spanning the first five years, will make MITS a regionally and nationally aspired University through solid collaborations with leading national and International Universities. The foundation for becoming an internationally recognized University will be laid in this phase. In phase two, spanning the next five years (years 6 to 10), the effort will be focused on expanding its academic excellence and infrastructure to accommodate students and faculty members from other states and nations. The next phase, phase three (years 11 to 15) will be focused on making MITS a globally renowned University that provides eminent degrees in collaboration with international Universities.</p> <p>These phases will be achieved through our five-pointed goal: The first point of our goal is about achieving academic excellence by creating a distinctive learning experience, fostering international competencies, critical thinking, an appreciation for the arts, a commitment to life-long learning and the ability and willingness to lead in an ever-evolving world. These changes will be channeled through implementing project-based learning, aligning the curriculum with academic excellence, enhancing learning experience through flipped classrooms and e-learning from global experts, recruiting diverse faculty experts, and encouraging extra-curricular, cultural, and recreational activities.</p> <p>The second point of our goal is to achieve excellence in research and innovation by fostering discovery right at the undergraduate level. The precise objective is to build a reputation by collaborating with outside partners, receiving research grants, and converting the research efforts into jobs, products, and economic development.</p>	

		<p>The third point of our goal is focused on community development. It will be achieved through institutionalizing the use of community leaders at the regional, national, and international levels at the classroom level. An external advisory board on research will be set up, and the economic impact of community-oriented research will also be studied to achieve this goal space.</p> <p>The fourth point of our goal is to strive for organizational excellence by promoting leadership among faculty and administrative staff and finding opportunities for organizational growth. The fifth point of the goal is about achieving infrastructural excellence by sustaining the human, financial, and physical resources required to accomplish the University's Mission and Vision.</p>	
	<b>53.3</b>	<b>Action Plan</b>	
		<p>Our action plan includes enhancing the infrastructural needs, admitting students across the nation and abroad, and recruiting faculty experts and industry-adjunct faculty to aid in academic excellence. In term space of brick-and-mortar infrastructure, 4 new buildings are being constructed to meet future requirements. When it comes to admissions, MITS is already a sought-after institution in Andhra Pradesh, evidenced by 100% admissions year after year within the initial rounds of admissions.</p> <p>The marketing initiatives shall be carried out to admit students nationwide and abroad through JEE and international test scores. MITS entrance examination will also be initiated. These initiatives will ensure students from nearby metro cities (Bengaluru, Hyderabad, and Chennai) flock to MITS instead of students opting for metro cities for their career needs, enabling a reverse migration and creating a cosmopolitan learning culture.</p> <p>To meet the faculty requirement, a faculty recruitment plan will be incorporated to ensure the recruitment and retention of the nation's best faculty experts and industrial leaders. International visiting and adjunct faculty members shall be recruited to meet the research standards of an eminent</p>	

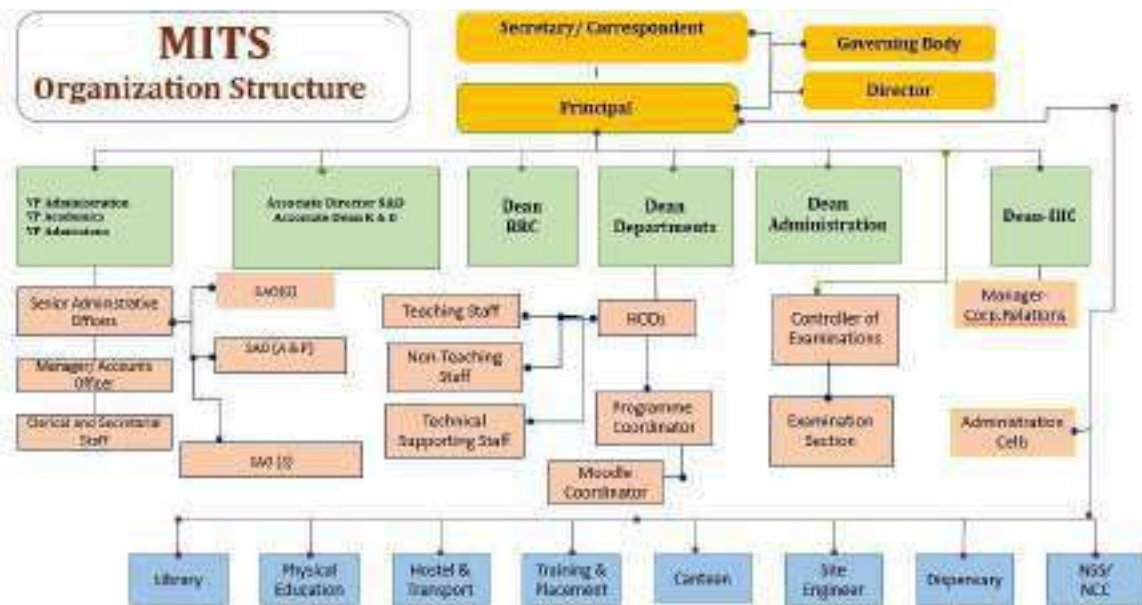
		University. In addition, community development and sustainable development goals shall be encouraged through society-focused projects and research.	
<b>54.0</b>		<b>Consultant</b>	
		MITS has not engaged any consultant for the preparation of the Detailed Project Report (DPR). It is an honest representation of the facts as understood by the MITS Trust which is making this application.	



		<b>Chapter II: MITS the Autonomous Institution</b>	
<b>0.0</b>		<p><b>Preamble:</b>  At MITS, Madanapalle, Andhra Pradesh, we foster a dynamic and forward-thinking environment dedicated to shaping the future of technology, innovation, and learning. Established on the principles of academic excellence and innovation by the Ratakonda Ranga Reddy Educational Academy under the proactive leadership of Late Sri. N. Krishna Kumar M.S. (USA), the then President and Dr. N. Vijaya Bhaskar Choudary, Ph.D., Secretary &amp; Correspondent of the Academy.</p> <p>We stand as a beacon of technical education, research, and industry collaboration.</p> <p>We envision a future where groundbreaking discoveries, technological advancements, and transformative education converge. We seek to be a global leader in technical education, producing skilled professionals, fostering innovation, and contributing significantly to the advancement of society.</p> <p><b>Commitment to Excellence</b>  With a legacy of 25 years in technical education, we have continuously evolved to meet the changing landscape of technology. Our commitment to academic excellence, coupled with a focus on practical application, research, and innovation, prepares our students to excel in an ever-evolving global economy.</p> <p><b>Key Pillars of MITS</b></p> <p><b>Cutting-Edge Education:</b> Our comprehensive curriculum, designed in collaboration with industry experts, provides students with a solid foundation and hands-on experience in their chosen fields.</p> <p><b>Innovative Research:</b> We foster a culture of innovation, encouraging faculty and students to explore new frontiers, leading to groundbreaking research and discoveries that</p>	

		<p>impact industries and society.</p> <p><b>Industry Partnerships:</b> Collaborations with leading corporations and startups offer our students real-world exposure, internships, and opportunities to work on industry-relevant projects.</p> <p><b>Global Outreach:</b> We embrace diversity and global perspectives, offering international collaborations, exchange programs, and a multicultural environment that enriches the learning experience.</p> <p><b>Our community</b> At MITS, we believe in nurturing a vibrant community of scholars, researchers, educators, and industry partners. Our dedicated faculty, driven students, and supportive staff create a collaborative ecosystem that fuels innovation, creativity, and academic excellence.</p> <p>As we embark on this journey together, we invite you to join us in shaping the future of technology, innovation, and education. At MITS Deemed to be University, we are committed to empowering individuals, advancing knowledge, and making a lasting impact on a global scale.</p> <p>Welcome to a place where ideas flourish, boundaries are challenged, and innovation knows no limits.</p>	
<b>1.0</b>		<b>Governance and Organizational Structure</b>	
	<b>1.1</b>	<b>Organizational chart and Hierarchy</b>	
		<p>In MITS, various statutory bodies are in place in-line with UGC/AICTE guidelines. The Board of Governors is the highest decision-making body in the institution. It formulates rules/regulations for functioning of various Departments and Cells.</p> <p>To take care of academics, there is an Academic Council at the apex level, followed by Board of Studies (BOS) responsible for aligning the syllabus with the Industry's requirements, and Finance Committee to take care of financial aspects at institution level.</p>	

	<p>The entire staff are arranged in a sequential and hierarchical order through which the formulated rules/regulations are effectively carried out in their respective functionality in-line with the organization structure.</p> <p>There is a formal organizational structure in place giving the roles and responsibilities representation of this governance structure is presented below:</p>	



**Fig 2: Organization Structure**

<b>1.2</b>	<b>Roles and Responsibilities of various Departments</b>	
	MITS has a well-structured administrative setup with Governing Body as the highest decision-making body along with other functional bodies and committees.	
<b>1.3</b>	<b>Governing Body</b>	
	<ol style="list-style-type: none"> <li>1. Governing Body shall have powers to function subject to the existing provision in the bye-laws of MITS and rules lay down by the state government/ affiliated University.</li> <li>2. The following are the functions of Governing Body: Evolves the Vision, Mission and Objectives of the College and ensures that they are achieved Ensures Total Academic and Administrative Autonomies for achieving Short Term and Long Term objectives of the Institute.</li> </ol>	

3. Governing Body makes all policy decisions (Autonomous Institute Policy, Quality Policy, HR Policy, Admission Policy, Administration Policy, Finance Manual, Alumni Manual, IT Policy, Globalization Policy, Innovation & Incubation Policy and Patent Policy etc.) regarding courses to be offered, recruitment of staff, service conditions of teaching and non-teaching staff, conduct of staff and students academic and non-academic activities, also it ensures that they are periodically updated.

1. Approves the curriculum as recommended by the Academic Council.
2. Approves new programs of study leading to degree.
3. Approves scholarships, fellowships, studentships, medals, prizes and certificates on the recommendations of the Academic Council and ensures the adequacy of financial resources for asset management
4. All matters concerning the Academic and Finance Committees are thoroughly discussed and their recommendations/ comments are communicated to the concerned.
5. For administers the physical resources of the Institute.
6. Reviews the performance of the Institute and guide to function effectively to achieve excellence in Academics, Research and Industry collaborations.
7. Ensures the Regulatory Compliance of all the decisions by the concerned authorities like the Principal, HoD and other Officers of the Institute in all matters of fundamental concern.
8. Ratifies and resolves the minutes of Academic Council, BOS, Finance Committee and IQAC
9. Reviews to apply Accreditations of different regulatory bodies (NBA, NAAC, UGC etc.) Monitors the effective functioning of different non statutory committees of the college.
10. Encourages and gives directions to the faculty members to apply for funds from different funding agencies.

<b>1.4</b>	<b>Governing Body Members:</b> (Academic Year 2023-24 onwards)	
	The current list of Governing Body Members are given in Table 25	

**Table 25: Governing Body Members (GBM)**

S. No	Name	Category	Position in BoG	Qualification	Designation / Background
1.	Dr. N. Vijaya Bhaskar Choudary	Management	Chairman	Ph.D.	Secretary & Correspondent, MITS
2.	Mrs. N. Keerthi	Management	Member	B.E. (Hons)	Executive Director, MITS
3.	Sri. N. Dwarakanath Naidu	Management	Member	B.A.	President, RRR Educational Academy, Madanapalle
4.	Sri. T.G. Ravi Kumar	Management	Member	B.Com., M.B.A	Philanthropist/ Social Activist, Madanapalle
5.	Dr. V. Vamsidhar	Management	Member	M.Tech., Ph.D.	Associate Professor, Dept. of Mechanical Engineering, MITS
6.	Dr. Sremmant Basu	Teachers of the College	Member	M.B.A., Ph.D.	Professor and Dean-Admn & International Relations, MITS
7.	Dr. D. Pradeep Kumar	Teachers of the College	Member	M.B.A., Ph.D.	Professor in Management Studies, MITS
8.	Mrs. M. Prathibha	Administrative Staff of the College	Member	B.Com	Senior Administrative Officer (General), MITS
9.	Prof. N.V.R. Naidu	Educationist	Member	M.Tech., Ph.D.	Principal, MSRIT, Bangalore, Karnataka State
10.	Dr. M. S. Sukumar	Nominated by Dept. of Technical Education, A.P.	Member	Ph.D.	Principal, Government Polytechnic, Chandragiri, A.P.
11.	Prof. M. Vijay Kumar	University Nominee	Member	M.Tech., Ph.D.	Professor in EEE & Rector, JNTUA, Ananthapuramu
12.	Dr. C. Yuvaraj	Principal of College	Member Secretary	M.E., Ph.D.	Principal, MITS

2.0	<b>Authorities of the Autonomous Institution</b>	
	2.1 <b>Academic Council</b>	
	<ol style="list-style-type: none"> <li>1. To monitor the overall academic affairs of the institute.</li> <li>2. To provide direction with regard to methods of instruction, evaluation, research, improvement in academic standards</li> <li>3. To consider matters of academic interest either on its own initiatives or at the insistence of the Governing Body and take proper action there on.</li> <li>4. To approve the proposals/regulations recommended by the Board of Studies on academic regulations, framing of syllabus and evaluation methods. To introduce value added courses/ certificate courses which are required to meet the industry needs.</li> <li>5. To prescribe courses of study leading to undergraduate and Post graduate degree of the institute.</li> <li>6. To develop the regulations for student's admission based on government policies. To formulate guidelines for the conduct of examinations in conformity with bye-laws of the institute and the affiliating University.</li> <li>7. To maintain proper standards of the examination.</li> <li>8. To develop the guidelines for sports, extracurricular activities, maintenance and functioning of play grounds and hostels.</li> <li>9. To promote research within the institute and acquire reports on such research from time to time for further guidance and advise.</li> <li>10. To prescribe measures for departmental coordination.</li> <li>11. Ratifies and resolves the minutes of Board of Studies.</li> <li>12. To make recommendations to the governing council for the following: Inception of new courses.</li> <li>13. Initiate measures for the improvement of standards of teaching.</li> <li>14. Ensures Training and Research fellowships, Travelling fellowships, Scholarships, Medals, prizes etc.</li> <li>15. Establishment or discontinuation of courses / centers and formulate by laws guiding the academic functioning of the institute admissions and examinations.</li> </ol> <p>Principal office order of the constitution of Academic council is attached as <b>Annexure 20</b>.</p>	

	2.2	<b>Members of Academic Council:</b> The current list of Academic Council members are given in Table:26	

**Table 26: Members of the Academic Council**

S. No	Name	Designation	Position
1.	Dr. C. Yuvaraj	Principal	Chairman
2.	Mr. B.V. Krishna Rao	Former Secretary, SBTET, Andhra Pradesh	External Member
3.	Dr. V. V. Kutumba Rao	Honorary Visiting Scientist, DRDO, Hyderabad	External Member
4.	Prof. V. Sumalatha	Director of Academic & Planning, JNT University Anantapuramu	University Nominee, Ex-Officio
5.	Prof. E. Keshava Reddy	Director of Evaluation, JNT University Anantapuramu	University Nominee, Ex-Officio
6.	Prof. P. Sujatha	Director, Foreign Affairs & Alumni Matters, JNTUA, Ananthapuramu	University Nominee, Member
7.	Mr. D. Surendra Babu	Chartered Accountant, Bangalore	External Member
8.	Dr. K. S. Sridhar	Registrar, PES University, Bengaluru	External Member
9.	Prof. K. S. S. Seshan	Professor and Head (Retd), Department of History, University of Hyderabad.	External Member
10.	Sri. Sisir Koppaka	Managing Director Blue Insight Digital Pvt. Ltd. BENGALURU – 560103.	External Member
11.	Dr. Dipankar Roy	Professor in Civil	Head –Civil
12.	Dr. R. Kalpana	Professor in CSE	Head – CSE
13.	Dr. M. Sreedevi	Professor in CST	Head – CST
14.	Dr. K. Chokkanathan	Associate Professor in CSE (AI)	Head – CSE (AI)
15.	Dr. S.V.S. Ganga Devi	Professor in CSE (CS)	Head – CSE (CS)
16.	Dr. S. Kusuma	Assistant Professor in CSE (DS)	Head – CSE (DS)
17.	Dr. S. Rajasekaran	Professor in ECE	Head – ECE
18.	Dr. A.V. Pavan Kumar	Professor in EEE	Head – EEE
19.	Dr. S. Baskaran	Professor in ME	Head - ME

20.	Dr. K. V. Geetha Devi	Assistant Professor in MBA	Head – MBA
21.	Dr. N. Naveen Kumar	Associate Professor in MCA	Head – MCA
22.	Dr. R. Thulasiram Naidu	Professor in Humanities	Head – Humanities
23.	Dr. P. Ramesh Reddy	Assistant Professor in Mathematics	Head – Mathematics
24.	Dr. M. Chandra Sekhar	Associate Professor in Physics	Head – Physics
25.	Dr. Renjith Bhaskaran	Assistant Professor in Chemistry	Head – Chemistry
26.	Dr. P. Athahar	Associate Professor in English	Head– English & Foreign Languages
27.	Dr. K.V.N. Murthy	Associate Professor in Maths & CoE	Member (Ex Officio)
28.	Dr. C. Kamal Basha	Professor in EEE & Vice Principal-Administration	Member
29.	Dr. N. Gangisetty	Professor in MBA	Member
30.	Dr. K. Sathesh	Associate Professor in ECE	Member
31.	Dr. A. Subba Rao	Assistant Professor in Maths	Member
32.	Dr. P. Ramanathan	Professor in ECE & Vice Principal –Academics	Member Secretary

	<b>2.3</b>	<b>Finance Committee</b>	
		<ol style="list-style-type: none"> <li>1. The annual accounts and financial estimates of Institute shall be placed before the Finance Committee for scrutiny and thereafter submitted to the Governing Body together with the comments of the Finance Committee for approval.</li> <li>2. The Finance Committee shall fix limits of the total recurring expenditure and the total non-recurring expenditure for the year based on the income and resources of the Institute. No expenditure shall be incurred by the Institute in excess of the limits so fixed.</li> <li>3. No expenditure other than that provided in the budget shall be incurred by the Institute without the approval of the Finance Committee.</li> <li>4. To provide the financial estimates in respect of building and other infrastructural facilities that are planned to be provided based on the recommendations of Institute Development Committee.</li> <li>5. Estimates the income from fees and other sources.</li> </ol>	



		<p>6. Estimates the fund received from UGC/AICTE/any other funding agency Prepares plan of expenditure for running of the institution on day to day basis.</p> <p>7. Scrutinizes the budget submitted by the different depts. and monitor the utilization of department's budget.</p> <p>8. Proposes the budget for the financial year for the departments and the institute.</p> <p>9. To consider audited accounts of the Institute and submits the audited accounts to GC.</p> <p>10. To make recommendations to the Governing Council for the following to: Advise the Governing Body on all financial matters.</p> <p>11. To scrutinize the budget submitted by the different departments and monitor the utilization of department budget.</p> <p>12. Propose the budget for the financial year for the departments and institute Consider and submit the audited accounts.</p> <p>Principal office order of the constitution of Finance committee is attached as <b>Annexure 21</b>.</p>	
--	--	---	--

**Table 27: Members of the Finance Committee**

S.No	Name	Designation	Position
1.	Dr. C. Yuvaraj	Principal	Chairman
2.	Mr. D. Surendra Babu	Chartered Accountant, Bangalore	Member
3.	Dr. D. Pradeep Kumar	Professor in MBA and Chief Coordinator-PAARC	Member
4.	Mr. P. Anil Kumar	Finance Officer	Member Secretary

	<b>2.4</b>	<b>Boards of Studies</b>	
		<p>To approve the Course Outcomes (COs), Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs) of the programs offered by the department.</p> <p>Design the syllabus as per Mission, Vision, Program Outcomes, Program Specific Outcomes, and Course Outcomes of all programs offered by the Department</p>	

		<p>Prepares the contemporary syllabi for different programs based on the changing needs of the profession and the requirements of the industry for all the courses with respect to the objectives of the college, stakeholders, societal / local / national / regional / global developmental needs.</p> <p>Approve the curriculum and its structure for all the programs of the department.</p> <p>Advises innovative pedagogical methods teaching and evaluation methods.</p> <p>Suggest the panel of names to the academic council for the appointment of examiners</p> <p>Co-ordinates research, teaching, consultancy and any other academic matters for the growth of the department/institute.</p> <p>To make recommendations to the Academic Council for the following: Starting of new courses, initiate measures for improvements of standards of teaching, Training and research.</p> <p>All the Board of Studies have representatives from Industry to make the Syllabi more Industry Oriented.</p>
<b>3.0</b>		<b>Other Bodies of the Autonomous Institute</b>
	<b>3.1</b>	<b>Institute Academic Committee</b>
		<ol style="list-style-type: none"> <li>1. Plan, monitor and control the academic systems of all the Departments.</li> <li>2. Introduce innovative methodology in Teaching, Learning and Evaluation practices.</li> <li>3. Introduce the additional infrastructural facilities which are required to strengthen the Departments for the changing needs, curriculum revision and for the introduction of new disciplines.</li> <li>4. Evolve processes for inducting Academic Audit both at the Institute level and at the Department level.</li> </ol>
	<b>3.2</b>	<b>Research Advisory Board</b>
		<ol style="list-style-type: none"> <li>1. Identifying the funding agencies.</li> <li>2. Finalize thrust areas for institutional R&amp;D projects.</li> <li>3. Identifying the Research projects.</li> </ol>

4. Review the progress of the research projects.
5. Review of new/ existing Center for Excellence in the Institute. Looking for additional resources for research infrastructure.
6. Contributing towards the development of curriculum.
7. Recognizing recent trends in Science and Technology.
8. Identifying the thrust / emerging research areas and advises on the research processes and current technological practices.
9. Reviews the faculty publications.
10. Recommends the incentives for all those papers published in the peer reviewed journals.
11. Suggests the faculty for further patent work.

**Table 28: Research Advisory Committee**

Sl.No	Name	Designation	Position in the Advisory Board
1	Dr. C. Yuvaraj	Principal	Chairman
2	Dr. D. Pradeep Kumar	Chief Coordinator, (NAAC/NEP/ISO Affairs)	Member
3	Dr. P. Ramanathan	Vice Principal (Academics)	Member
4	Dr. C. Kamal Basha	Vice Principal (Administration)	Member
5	Dr. Sremmant Basu	Dean-Administration, I.R. & UGC-Affairs)	Member
6	Dr. R. Thulasiram Naidu	Advisor- Advisor - R&D & Consultancy	Member
7	Dr. P. Sivaiah	Associate Dean-R&D	Member
8	Dr. K. Arul Kumar	NIRF coordinator	Member
9	Dr. Manish Sharma	NAAC Criteria-III coordinator	Member

Principal office order of the constitution of Research Advisory Board is attached as **Annexure 22**.

**3.3 Internal Quality Assurance Cell (IQAC)**

1. Dissemination of information on various quality parameters of higher education.
2. Facilitating the creation of a learner-centric environment.
3. Development and application of quality benchmarks /parameters for all the academic and administrative activities of the institution.
4. Acting as a nodal agency of the Institution for coordinating quality-related activities.
5. Development of quality concerned culture in the institute.

Principal office order of the constitution of Internal Quality Assurance Cell

		is attached as <b>Annexure 23.</b>
<b>3.4</b>	<b>Purchase Committee</b>	
		<ol style="list-style-type: none"> <li>1. Maintains the approval letters and collects the quotations from various vendors, later compares the prices from these quotations.</li> <li>2. Finalizes the competitive prices and Places the Purchase Order.</li> <li>3. Settles the bills and submits the same for auditing purpose</li> </ol> Principal office order of the constitution of Purchase Committee is attached as <b>Annexure 24.</b>
<b>3.5</b>	<b>Examination Committee</b>	
		<ol style="list-style-type: none"> <li>1. Prepares relevant time tables of the Institute based on the Examination Time Table.</li> <li>2. Prepares and displays an overall Supervision Duty List.</li> <li>3. The Exam Committee shall hold a pre-exam meeting to brief the members of faculty with regard to the examination procedures and the role and responsibilities and a report of same shall be submitted to the Principal.</li> <li>4. Committee collects list of examiners for assessment and moderation of each subject from respective HODs.</li> <li>5. Ensures that the evaluation and moderation process is completed on time.</li> <li>6. Prepares smooth conduct of examinations, time – table schedules, Invigilation duty chart, Seat allotment in the Examination halls etc.</li> <li>7. Ensures that the entire exam related documents reach the University in time.</li> <li>8. Conducts Internal Assessment examination as per academic calendar.</li> <li>9. Distributes marks lists to the students after the results of various examinations received from the University.</li> <li>10. Processes all circulars, guidelines, office orders, notifications received by the University.</li> </ol> Principal office order of the constitution of Examination Committee is attached as <b>Annexure 25.</b>
<b>3.6</b>	<b>Departmental Advisory Board</b>	
		<ol style="list-style-type: none"> <li>1. Department Advisory Board (DAB) is responsible for the academic audit of the department.</li> <li>2. Plan, monitor and control of the academic system of the department.</li> <li>3. DAB also considers the recommendations of Program Assessment</li> </ol>

		<p>Committee (PAC) relating to any development aspect that may include programs of study, change in syllabus, Laboratory up-gradation and maintenance, introduction of new courses and make further recommendations to the Board of Studies (BoS).</p> <ol style="list-style-type: none"> <li>4. Planning, monitoring and control of the academic system of the department concerned.</li> <li>5. Suggest additional infrastructural facilities required for strengthening the department.</li> <li>6. Implement the innovative practices in the Teaching and Learning methods and evaluation system.</li> <li>7. Review Industrial visits, Result Analysis, Research proposals from different funding agencies, Research publications, adherence to Accreditations norms of NBA, NAAC.</li> </ol>
	<b>3.7</b>	<b>Internal Department Committee</b>
		<ol style="list-style-type: none"> <li>1. Collect feedback from all the stake holders viz. the students, staff, parents, Industry experts, academic peers etc. regarding the course requirements, emerging trends and the corrections needed in the existing academic system and verifies whether it relates to the conduct of the course work or organizing the laboratories.</li> <li>2. Analyze the feedback and make reviews.</li> <li>3. Review on FDP/Workshops/conferences/Any Other Funding proposal to various funding agencies.</li> <li>4. Review on Budget utilization.</li> <li>5. Review on Infrastructure.</li> <li>6. Reconstitution of Committees.</li> <li>7. Result Analysis.</li> <li>8. Changes to the syllabus Introduction of the new courses, upgrading the laboratories and introducing new laboratories.</li> <li>9. Recommend the requirements of new infrastructural facilities.</li> </ol>
	<b>3.8</b>	<b>Library &amp; Information Resource Centre Committee</b>
		<ol style="list-style-type: none"> <li>1. Collecting the requirements of the text books, reference books, journals and ensuring adequate number of copies are made available in the library as per norms.</li> <li>2. Planning and implementing the library automation, procedures, digital library development and usage.</li> <li>3. Finalizing the list of books, journals, magazines and equipment to the institute as well as department libraries and propose budgetary estimate to the administration.</li> <li>4. Conducting annual stock verification</li> </ol>

		Principal office order of the constitution of Library & Information Resource Centre Committee: is attached as <b>Annexure 26.</b>
<b>3.9</b>	<b>Grievance Redressal Committee</b>	
		<ol style="list-style-type: none"> <li>1. All the grievances of the students/staff which could not be settled in the routine process should be referred to this committee.</li> <li>2. Committee tries to settle the issues amicably in a time bound manner.</li> <li>3. Introduces a reasonable and reliable solution for grievances of various issues received from students/parents.</li> <li>4. Ensures that the grievances are resolved on time impartially and confidentially.</li> </ol> <p>Principal office order of the constitution of Library &amp; Information Resource Centre Committee: is attached as <b>Annexure 27.</b></p>
<b>3.10</b>	<b>Anti-Ragging Committee</b>	
		<ol style="list-style-type: none"> <li>1. Ensures that at least one faculty member will be present at any particular time at all the locations to prevent ragging activities.</li> <li>2. Takes precautions to prevent ragging activities at other locations like bus stops and gives instructions to the student volunteers and secret informers at various boarding points.</li> <li>3. Canvases about anti-ragging in the forms of Flexes, Posters and Boards in college premises and surrounding areas where there is a chance of ragging.</li> <li>4. Arranges counseling and guidance programs for the fresher's and parents regarding ragging.</li> <li>5. Takes affidavits from the students and parents regarding Ragging during the Admission.</li> <li>6. Provides helpline details inside and outside college premises.</li> <li>7. Resolves the complaint received from the victim and verifies the facts through enquiry.</li> <li>8. Awards disciplinary action against culprit.</li> </ol> <p>Principal office order of the constitution of Library &amp; Information Resource Centre Committee: is attached as <b>Annexure 28.</b></p>
<b>3.11</b>	<b>Disciplinary Committee</b>	
		<ol style="list-style-type: none"> <li>1. Maintains discipline in the institute by corrective or punitive action against the acts of indiscipline and disruption by the students in the institute premises and Counsels the indiscipline students.</li> <li>2. Counsels the students about ill-effects of ragging.</li> <li>3. Enlightens the students on the consequential administrative and legal</li> </ol>

		<p>implications.</p> <ol style="list-style-type: none"> <li>4. Monitors the movement of the students in the college and prevent students loitering around in the corridors during the college working hours.</li> <li>5. Ensures that all the students attend classes without absenting &amp; prevent the students from leaving the college early.</li> <li>6. Maintains proper discipline in the college canteen, student waiting room, corridors during the college working hours.</li> <li>7. Assists the college anti-ragging committee in preventing ragging in the College and to spread anti- ragging campaign throughout the student's community.</li> </ol> <p>Principal office order of the Disciplinary Committee is attached as <b>Annexure 29.</b></p>
	<b>3.12</b>	<b>Editorial Board, MITS, The Annual Magazine</b>
		<p>Collects and sorts all the information under various headings. Checks and edits the information and does proof reading.</p> <p>Gives a final shape to the magazine by inviting quotations from the printers.</p> <p>Receives printed copies from printer and arranges for distribution.</p> <p>Principal office order of the Editorial Board, MITS, The Annual Magazine Committee is attached as <b>Annexure 30.</b></p>
	<b>3.13</b>	<b>Extra-Curricular &amp; Co-Curricular Committee</b>
		<ol style="list-style-type: none"> <li>1. The committee shall plan for creating the infrastructural facilities.</li> <li>2. Submission of quarterly report regarding the adequacy and quality of the maintenance of the facilities.</li> <li>3. The committee is responsible for the event planning, scheduling the events, budget planning, ensuring maximum participation by coordinating the student activities.</li> </ol> <p>Principal office order of the Extra-Curricular &amp; Co-Curricular Committee is attached as <b>Annexure 31.</b></p>
	<b>3.14</b>	<b>Sports Committee</b>
		<ol style="list-style-type: none"> <li>1. To plan, conduct all sports in the college including competitions.</li> <li>2. Train students for inter college and inter University, state and national level competitions.</li> <li>3. Monitor and maintain the discipline in student players.</li> <li>4. Keep all the play grounds, sports equipment for scheduling all the related activities without effecting the class/Lab work, examination</li> </ol>

		<p>schedules.</p> <ol style="list-style-type: none"> <li>5. To systemize the development of sports and extra-curricular activities.</li> <li>6. To plan and update the infrastructural facilities required as per norms through Professor in charge resources.</li> <li>7. To plan and monitor the maintenance of all the infrastructural facilities related to sports and games.</li> <li>8. To Organize competitions of Intramural, Republic Day, Fresher's Day, Independence Day, etc.,</li> <li>9. To Organize Inter collegiate tournaments.</li> <li>10. To Coach players to participate in All India Inter University and various Inter collegiate meets.</li> <li>11. To Organize Annual Sports Fest.</li> </ol> <p>Principal office order of the Sports Committee is attached as <b>Annexure 32</b>.</p>
	<b>3.15</b>	<b>Training &amp; Placement Committee</b>
		<ol style="list-style-type: none"> <li>1. Collects and maintains the students database for the purpose of T&amp;P activities.</li> <li>2. Does the training need analysis for all third year students.</li> <li>3. Based on the same, plans for imparting the necessary skills such as soft skills, hard skills and technical skills.</li> <li>4. Responsible for identifying placement opportunities across reputed organizations.</li> <li>5. Arrange for interaction with industry and bridge the gap between Institute and industry.</li> <li>6. Arranges for better conduct of industry – specific Training programs.</li> <li>7. Assists companies in the recruitment process by conducting interviews, group discussions, written tests etc. in the Campus.</li> <li>8. Arranges the special sessions for providing the contemporary trends and development in the technologies and tools to the students.</li> <li>9. The Training and placement cell conducts lectures on personality development communication skills and conduct mock sessions for improving presentation skills.</li> <li>10. Coordinates with Training Officer for identifying the training requirements related to Soft and communication skills</li> </ol>
	<b>3.16</b>	<b>Hostel Committee</b>
		<ol style="list-style-type: none"> <li>1. To plan and monitor the maintenance of all the infrastructure facilities concerned with the Hostel</li> <li>2. To supervise all facilities/amenities and their maintenance, receive</li> </ol>



		<p>complaints from students, redress of grievances etc.</p> <ol style="list-style-type: none"> <li>3. To control, counsel the behavior of students in the hostel norms, monitor study schedules and patterns, etc.</li> <li>4. To plan for all the infrastructure facilities, the need for proper maintenance of the lodging and boarding facilities of the hostel and for smooth running of the hostel.</li> <li>5. Responsible for the receipts and the payments of the hostel</li> </ol> <p>Principal office order of the Hostel Committee is attached as <b>Annexure 33</b>.</p>
	<b>3.17</b>	<b>Alumni Coordination Committee</b>
		<ol style="list-style-type: none"> <li>1. Responsible for the registration of all the outgoing students as alumni members and maintenance of the database.</li> <li>2. Collects and compiles information of the distinguished alumni, viz., their achievements, progress and successful careers.</li> <li>3. Maintains continuous interaction with the alumni and plans for utilizing their services for the benefit of present students and the institute.</li> <li>4. Establishes the network of the alumni and present students through seminars, guest lectures, workshops etc.</li> <li>5. Responsible for establishing alumni chapters and conducting their annual meets frequently.</li> <li>6. Identifies and forwards the information to main Chapter at MITS regarding the Alumni occupying good positions in Industry / R&amp;D / Academics / Business etc.</li> <li>7. Publish the alumni details on the Institute Website by interacting with individual HOD's through Institute Automation and update the same regularly.</li> <li>8. Circulates the details of alumni to the present students for their benefit.</li> <li>9. Invites the Alumni who are in good professional position for guest lecturers as per discussions with HOD.</li> <li>10. Have a Web Site for as per online registration of Alumni as well as for funning information, forwards information through E-News Letter and update the Yearly Calendar of Events.</li> <li>11. Receives suggestions from the Alumni through e-mail regarding the need for curriculum updating, Lab up gradation, Imparting any Special Skills, Career Opportunities, Admission into Foreign Universities etc. and forward the same to the concerned HOD's / Principal / Management, if any action needs to be taken from their side.</li> <li>12. Identifies Funding for Instituting Scholarships for deserving</li> </ol>

		<p>meritorious students from Alumni. Collects Funds to develop Library / Equipment / computer centers, Buildings etc.</p> <p>Principal office order of the Alumni Coordination Committee:is attached as <b>Annexure 34</b>.</p>
	<b>3.18</b>	<b>Industry Institute Interaction Committee</b>
		<ol style="list-style-type: none"> <li>1. Arranges Industrial visits, Internships and Industrial Tours involves Industrial Experts to be on college Governing council, Academic council, BOS, Department Development committees, Training and Placement committee, etc.</li> <li>2. Fructifying the tie-ups into MOUs with industry for the purpose of training, placements, internships, for utilizing the services for entrepreneurship development programs</li> <li>3. Organizes student and Faculty Training at the Industry Assists in bringing in sourcing live projects to be done by Final Year B.Tech and M.Tech Students Tie-up with the Industry to implement</li> <li>4. Virtual development center Plans and implements the Entrepreneur development programs within campus.</li> <li>5. Assists in bringing then R&amp;D Projects from Research Organizations</li> <li>6. Guides in getting financial support from industry the R&amp;D Projects from Governmental organizations which include DST, CSIR, UGC, AICTE etc.</li> <li>7. Assists in bringing the R&amp;D Projects from Research Organizations Facilitates in marketing the consultancy services offered by departments.</li> </ol> <p>Principal office order of the Industry Institute Interaction Committee is attached as <b>Annexure 35</b>.</p>
	<b>3.19</b>	<b>Canteen Committee</b>
		<ol style="list-style-type: none"> <li>1. To supervise, take steps for the maintenance of canteen facilities with hygiene To maintain and control the quality of food supplied in the canteen</li> <li>2. To modernize the canteen equipment and cooking procedures.</li> <li>3. To control and make suggestions to the canteen management.</li> <li>4. To plan for all the infrastructure facilities required as per norms through Professor In charge resources.</li> <li>5. To plan and monitor the maintenance of all the infrastructure facilities related to Canteen</li> <li>6. To maintain the canteen premises clean and Hygiene.</li> </ol> <p>Principal office order of the Canteen Committee is attached as <b>Annexure</b></p>

		<b>36.</b>	
	<b>3.20</b>	<b>SC &amp; ST Cell:</b>	
		<ol style="list-style-type: none"> <li>1. Resolves the Grievances of SC/ST students and employees of the University and render them necessary help in solving their academic as well as administrative problems.</li> <li>2. Looks after the work related to SC/ST students.</li> <li>3. Ensures the effective implementation of the guidelines /policies and programs of the Government of India, UGC and State Governments with regard to backward castes, classes and physically challenged.</li> <li>4. Collects data regarding the implementation of the policies in respect of admissions, appointments to teaching and non- teaching positions in the institute and informs the same to the deserve people.</li> <li>5. Gives wide publicity through circulars to all the faculties and informs the students about the various scholarships</li> </ol> <p>Principal office order of the SC &amp; ST Cell is attached as <b>Annexure 37.</b></p>	
	<b>3.21</b>	<b>Minority Cell:</b>	
		<ol style="list-style-type: none"> <li>1. Plans to implement, coordinate and control all schemes related to disadvantaged groups.</li> <li>2. Conducts coaching classes for competitive exams and prepares students for professional examinations.</li> <li>3. Ensures the safe and secure environment for minorities.</li> <li>4. Provides counseling for any emotional emergencies arising on account of any events in the institute.</li> </ol> <p>Principal office order of the Minority Cell is attached as <b>Annexure 38.</b></p>	
	<b>3.22</b>	<b>Internal complaints committee</b>	
		<ol style="list-style-type: none"> <li>1. Takes care of not to occur eve teasing incidents in the campus and the college buses. Inappropriate behavior towards women staff. Improper treatment of girl students, passing of unaesthetic and provocative comments and messages cannot be spared.</li> <li>2. Equips the female students, faculty and staff members with the knowledge of their legal rights.</li> <li>3. Safeguards the rights of female students, faculty and staff members.</li> <li>4. Provides a platform for listening to complaints and redressal of all grievances including sexual misdemeanors.</li> </ol> <p>Principal office order of the Internal complaints committee is attached as <b>Annexure 39.</b></p>	

	<b>3.23</b>	<b>Prevention of Sexual Harassment Cell (POSHC)</b>
		<p>MITS is committed to provide congenial and conducive atmosphere for the lady employees and girl students in the institute premise. Therefore, to make the employee and students feel welcome and secure, institute has implemented Prevention of Sexual Harassment (POSH) ACT, 2013 as per the guidelines of Supreme court and formed a Prevention of Sexual Harassment Cell for preventing and redressing sexual harassment complaints at the workplace. Principal office order of the Prevention of Sexual Harassment Cell (POSHC) is attached as <b>Annexure 40</b>.</p> <p>The Cell comprises of members of administration, faculty, service staff, and students' representatives. The members of the cell are:</p>

**Table 29: Members of the Sexual Harassment Cell (POSHC)**

S. No	Name	Designation	Chairperson/Member	Email ID	Contact Number
1	Mrs. U. Vijaya Lakshmi	International Relations Coordinator & Students councillor	Chairperson	vijayalakshmiu@mits.ac.in	9100600773
2	Mrs. M. Prathibha	Sr. Administrative Officer (G.A.D)	Member	admin@mits.ac.in	9160020772
3	Dr. Sremmant Basu	Dean (Administration, International Relations & UGC-Affairs)	Member	dean-administration@mits.ac.in	9100907329
4	Dr. C. Kamal Basha	Vice Principal (Administration)	Member	viceprincipaladministration@mits.ac.in	8008570686
5	Dr. (Mrs.) R. Kalpana	Professor & Head	Member	csehod@mits.ac.in	9791358061
6	Dr. (Mrs.) S. Kusuma	Asst. Professor & Head	Member	dshod@mits.ac.in	9160023384
7	Mrs. J. Rajamma	Nurse	Member		9177197265
8	Ms. G. Dharini	Student-Civil	Member	22691A0108@mits.ac.in	9391304138
9	Ms. N.	Student- CSE	Member	22691A0504@	9553482858

Vasundara			mits.ac.in	
-----------	--	--	------------	--

<b>3.24</b>	<b>Committee for the welfare of differently abled persons</b>	
	<p>MITS is committed to provide congenial and conducive atmosphere for the lady employees and girl students in the institute premise. Therefore, to make the employee and students feel welcome and secure, institute has implemented Prevention of Sexual Harassment (POSH) ACT, 2013 as per the guidelines of Supreme court and formed a Prevention of Sexual Harassment Cell for preventing and redressing sexual harassment complaints at the workplace. Principal office order of Committee for the welfare of differently abled persons is attached as <b>Annexure 41</b>.</p> <p>The Cell comprises of members of administration, faculty, service staff, and students' representatives. The members of the cell are:</p>	

**Table 30: Committee for the welfare of differently abled persons**

S. No.	Name	Designation	Chairperson /Member	Email ID
1.	Dr. C. Yuvaraj	Professor & Principal	Chairman	principal@mits.ac.in
2.	Dr. Sremmant Basu	Dean – Administration, IRO & UGC Affairs	Member	dean-administration@mits.ac.in
3.	Dr. M. Sreedevi	Professor & Head-CST	Member	csthod@mits.ac.in
4.	Dr. K. Chokkanathan	Assoc. Professor & Head- CSE (AI)	Member	aihod@mits.ac.in
5.	Bachu Midhula	Student-MCA	Member	22691f0089@mits.ac.in
6.	M. Lakshmi Anusha	Student-CSE	Member	21695a0504@mits.ac.in
7.	Saradhi Kamalesh A	Student-MBA	Member	22691E00F7@mits.ac.in
8.	Dr. C. Kamal Basha	Vice Principal – Administration	Member Secretary	viceprincipaladministration@mits.ac.in

<b>4.0</b>	<b>Policies and Procedures for Governance</b>	
	Institute is committed to maintain a robust governance framework to ensure transparency, accountability, and effective decision-making. These policies and procedures	

are designed to provide guidance and structure to the governance processes of the institute.

1. **Teaching-Learning Methodologies Policy:** Focused on enhancing the quality of education through innovative and effective teaching methods. The Details are attached in **Annexure 42.**
2. **Examination Policy:** Ensuring fair, transparent, and rigorous assessment processes that align with University standards. The Details are attached in **Annexure 43.**
3. **Human Resource Policy:** Addressing the recruitment, development, and welfare of faculty and staff to foster a conducive working environment. The Details are attached in **Annexure 44.**
4. **International Relations Policy:** Establishing guidelines for international collaborations and partnerships to promote a global perspective. The Details are attached in **Annexure 45.**
5. **Research & Development Policy:** Encouraging a culture of research excellence, innovation, and continuous development. The Details are attached in **Annexure 46.**
6. **Intellectual Property Policy:** Safeguarding and promoting the intellectual contributions of academic community. The Details are attached in **Annexure 47.**
7. **Innovation & Startup Policy:** Facilitating and nurturing entrepreneurial initiatives and fostering a culture of innovation. The Details are attached in **Annexure 48.**
8. **Consultancy Policy:** Defining guidelines for consultancy services to leverage the expertise within the institution for external collaborations. The Details are attached in **Annexure 49.**
9. **Information Security Policy:** Ensuring the

		<p>confidentiality, integrity, and availability of information assets. The Details are attached in <b>Annexure 50.</b></p> <p>10.<b>Alumni Policy:</b> Establishing a strong connection with the alumni for mutual benefit and support. The Details are attached in <b>Annexure 51.</b></p> <p>11.<b>Library Policy:</b> Enhancing access to knowledge resources and promoting a conducive learning environment. The Details are attached in <b>Annexure 52.</b></p> <p>12.<b>IQAC Policy:</b> Focusing on continuous quality improvement through internal quality assurance mechanisms. The Details are attached in <b>Annexure 53.</b></p> <p>13.<b>Sports Policy:</b> Encouraging physical well-being and sportsmanship among students through organized sports activities. The Details are attached in <b>Annexure 54.</b></p> <p>14.<b>Training &amp; Placement Cell - Procedure for Campus Recruitment:</b> Facilitating smooth transitions from academia to the professional world. The Details are attached in <b>Annexure 55.</b></p> <p>15.<b>Transport Policy:</b> Ensuring safe and efficient transportation facilities for students and staff. The Details are attached in <b>Annexure 56.</b></p> <p>Our current policies and procedures serve as the foundation for the governance processes of the institute. However, as we transit to University status, we aim to expand and refine our policies to encompass a broader spectrum of academic, research, and administrative domains.</p>	

<b>5.0</b>		<b>Current Infrastructure and Facilities</b>	
	<b>5.1</b>	<b>Location analysis and selection Criteria</b> MITS has been an existing Institution since 1998.	

		The AICTE first approval for establishment of Institute <b>Annexure 57.</b>	
	<b>5.2</b>	<b>Land requirement and acquisition plan</b> MITS is in existence for over 25 years and the campus is spread out in 27.22 acres of land. Therefore, for the current requirement, there is no land acquisition plan.  The land ownership documents are attached in <b>Annexure 58.</b>  The summary of Land parcel details is given below: <b>(Table 31)</b>	
	<b>5.3</b>	Name of the Deed Holder: <b>Ratakonda Ranga Reddy Educational Academy</b>	



**Table 31: Summary of Land Parcel Details**

<b>S No</b>	<b>Document No:</b>	<b>Date of Registration</b>	<b>Plot No:</b>	<b>Address (Village) District</b>	<b>Extent in acres</b>	<b>Total Extent in acres</b>
1	1755	06.04.2001	205	Angallu	0.605	<b>12.1375</b>
2	1851	11.04.2001	205	Angallu	1	
3	1880	11.04.2001	205	Angallu	1.205	
4	1920	16.04.2001	205	Angallu	0.6	
5	1922	16.04.2001	205	Angallu	0.375	
6	1943	17.04.2001	205	Angallu	1.2575	
7	1986	18.04.2001	205	Angallu	0.5025	
8	1987	18.04.2001	205	Angallu	0.5025	
9	2044	20.04.2001	205	Angallu	2.105	
10	2045	20.04.2001	205	Angallu	2.105	
11	2157	26.04.2001	205	Angallu	0.0875	
12	2158	26.04.2001	205	Angallu	0.1675	
13	2159	26.04.2001	205	Angallu	0.375	
14	2163	26.04.2001	205	Angallu	0.75	
15	2162	26.04.2001	205	Angallu	0.5	
16	2360	03.05.2001	206	Angallu	0.0525	<b>0.1575</b>
17	2361	03.05.2001	206	Angallu	0.0525	
18	2362	03.05.2001	206	Angallu	0.0525	
19	2360	03.05.2001	207	Angallu	1.38	<b>4.14</b>
20	2361	03.05.2001	207	Angallu	1.38	
21	2362	03.05.2001	207	Angallu	1.38	
22	2308	30.04.2001	208	Angallu	1.39	<b>1.88</b>
23	1768	06.04.2002	208	Angallu	0.49	
24	4657	10.09.2001	212	Angallu	0.15	<b>0.15</b>
25	2001	20.04.2001	219	Angallu	1.65	<b>8.755</b>
26	2046	20.04.2001	219	Angallu	1.48	
27	2047	20.04.2001	219	Angallu	1.48	
28	2075	23.04.2001	219	Angallu	1.48	
29	2076	23.04.2001	219	Angallu	1.48	
30	2822	10.06.2002	219	Angallu	0.25	
31	2824	10.06.2002	219	Angallu	0.935	
<b>Total in Acres</b>					<b>27.22</b>	

5.4	<b>The Design and layout of the campus</b>	
	The Layout of the campus and the building plans and floor plans of different facilities are already attached as <b>Annexure 14</b> .	
	The existing facilities like classrooms, libraries, labs, dormitories, computer centers, cafeteria, auditorium, seminar halls, playground etc. have been given in the <b>Annexure 59</b> and the details are given below	

**Table 32: Existing Infrastructure Details**

Particulars	No. of Rooms	Area in Sqm
Class Rooms	77	5642.3
Tutorial Rooms	19	907
Computer Centre	3	450
Laboratories	74	6465.7
Drawing Halls	3	441.5
Workshop & Additional workshop	5	863.7
Library	3	1224.9
Seminar halls	3	442.1
Multipurpose and Others	7	632.8
Auditorium	1	709.3
Academic Area		17779.3
Administrative Area	54	3459
Amenities Area	62	2802.7
Circulation Area		9842
Total Existing Area Available in Sq. M	311	33883

5.5	<b>Sports Facility</b>	
	<p>MITS has a vibrant campus with sports activities while keeping the focus on academics. Physical fitness and mental wellbeing of the students are strengthened through the sports activities.</p> <p>The sports and games activity of the college are coordinated by the Department of Physical Education &amp; Sports under the guidance of Physical Director. The college has spacious Football/Cricket ground, 2 Basketball courts, 4 Volleyball court, Cricket net for practice and Shuttle court. Apart from these there are also indoor sports facility for Table Tennis, Chess and Carom boards. The details of the outdoor and indoor play facilities are attached in <b>Annexure 60</b>.</p> <p>Inter Departmental Tournaments such as Chess, Basketball, Football, Table Tennis, Badminton, Basketball, Free Throw, Volleyball, etc. are conducted every year. The Volleyball tournament is a very prestigious event in which colleges from across the district and University level take part. Temper run high and passion come to the boiling point especially when the home team is in finals. But with the true sportsman spirit the students cheer for both the sides and congratulates the winner as an excellent host.</p> <p>A Gymnasium is there for the health and fitness of the Students and Staff. Yoga classes are conducted regularly in the college and international yoga day is celebrated with all importance and with huge participation.</p> <p>The facility and the ambience provided in the MITS campus are so effective that students and team perform extremely well and top in different athletic, sports and games tournaments conducted at the University and State levels.</p>	
5.6	<b>Library</b>	
	The central library as well as department library of MITS acts as the main learning resource center of the Institute	

	<p>and has ample facility for reading, online studies, references and online e-books &amp; e-journals.</p> <p>Apart from this, a digital library facility named as Galileo Integrated Digital Learning Center (GDLC) is also available in campus. It supports over 117 different types of devices and over 11 protocols.</p> <p>It has the largest collection of Books, Faculty-Tools, Simulations, Industry Case Studies, Virtual Labs, Language Labs, Animations, Presentations, Videos, Magazines and Journals etc., All these can be accessed using wire and wireless devices. The details are attached in <b>Annexure 61</b>.</p>	
<b>5.7</b>	<b>Digital Facilities at MITS</b>	
	<p>MITS, has been utilizing Innovative Methodologies in Teaching-Learning Process by Digitizing IT Infrastructure. In this connection, LCD Projectors and Smart Boards have been installed in all Class Rooms &amp; Laboratories to facilitate effective presentation of Course contents. The entire campus is under the surveillance of CC TV Cameras for ensuring Gender safety and confidentiality in Examination related activities.</p> <p>Further, Digital Notice Boards are available at prominent places to disseminate information about various Activities/ Events conducted in campus. MOODLE Platform is utilized for posting Course materials and Assignments to facilitate e-Learning for Students. This Platform will provide exchanging of Ideas and Interactive Learning among Students and Faculty.</p> <p>Integrated Management System (IMS) platform is utilized to manage Classes, Timetables, Attendance, Internal Assessment Marks, Mentoring and also to generate these reports. The IMS portal facilitates sending hourly attendance to the Parents.</p> <p>Anti-Plagiarism Software “Turnitin” is provided to all the Students to verify their Assignments and Project Reports regarding the originality. Also Faculty members utilize this software to check the originality of their</p>	

	<p>Research Papers, Project Proposals etc.</p> <p>Tally software is used for effective maintenance of accounts. The software is also used for training the students.</p> <p>RF ID scanner is available in the library for issue/return of books and ensuring security in the library.</p> <p>To facilitate collaborative and participative learning, advanced digital room is established in the campus. Programming Courses/ training activities/ innovation activities, etc. are conducted in this room.</p> <p>The Institution is using effectively Bio Metric Attendance to monitor Attendance of Students and Staff members.</p>	
<b>5.8</b>	<b>Health Care</b>	
	<p>MITs, Madanapalle promotes healthy lifestyle and gives importance on both physical and physiological well-being of faculty members, staff and students. The Institute has well-established Health Care Center to provide first aid and free treatment to the faculty, staff and students. It is located in the research block of campus and the timing of the medical clinic is from 09:00 AM to 05:00 PM. One full time Doctor and one full time Nurse is available from morning 9:00 AM to evening 5:00 PM to cater the medical need in the campus. Apart from this, one visiting lady doctor also attends female patients of MITs health care center.</p> <p>It is a day care facility with 3 beds in the male section and 3 beds in the female section. It also has the facility of ambulance for carrying the patients to the nearest hospitals, based on Doctor's referral. The institute has tie-up with multiple Nursing Homes/Hospitals available in Madanapalle. The clinic conducts health awareness camp on periodic basis like, ECG camps, Blood donation camps, Eye check-up camps, etc.</p> <p>During corona time, this center in association with National Service Scheme and District Health Administration conducted vaccination drive for the</p>	

		benefit of Faculty, Staff, Students, and nearby village residents. The Portable oxygen concentrator facility is also available for the patients in moderate cases of COVID-19, when the patient used to drop in oxygen levels.  The details of the facility available in the Health Care Center is placed in <b>Annexure 62</b> .	
	<b>5.9</b>	<b>Transport Facility</b>	
		MITs College has a fleet of 30 buses and 11 cars to transport students and staff from MITs to various places and back. The college operates various points in the city and travel up to 50 kms to bring and drop day scholars.	
	<b>5.10</b>	<b>MITs Radio 90.8 MHz</b>	
		Madanapalle's first FM Community Radio Station 90.8 MHz, operates from MITs campus. The primary broadcast schedule is from 12:00 PM to 2:00 PM, with a repeat broadcast from 4:00 PM to 6:00 PM.  The broadcast is conducted in both Telugu and English to reach a wider audience.  The focus area of intervention is on Women and Child Health, Science & Technology, Youth Development, Wellness Programs, Career Counselling, Life Skills Education, Environment Issues, Social Issues, Gender Awareness, Women Empowerment, Spoken English, Telugu Culture & Heritage, Indian Constitution, Social Harmony and National Unity.	
	<b>5.11</b>	<b>Safety and Security</b>	
		<ol style="list-style-type: none"> <li>1. The institute is secured by dedicated security guards on each floor, grounds, departments and almost every important location round the clock.</li> <li>2. There is security control room which manages the surveillance with the help of 160 numbers of CCTV cameras available at all the junction points and open areas. The monitors displaying the footage is attached in <b>Annexure 63</b>.</li> </ol>	

		<p>3. Various events are organized towards self-defence training programs for female students.</p> <p>4. Reserved seats are provided to females and differently abled staff/students in all institute transportation.</p> <p>5. Feedback boxes are provided in departments, hostels, common areas and important suggestions as well as urgent grievances are directly reported to concerned authority.</p> <p>ICC (Internal Complaints Committee) is promoting gender amity, upholding the right to protection against Sexual harassment in the workplace. ICC Seeks help from the police department and local judiciary to create awareness about “She Laws” &amp; law protection to women. There is a Prevention of Sexual Harassment (POSH) committee in place.</p>	
	<b>5.12</b>	<b>Green Initiatives</b>	
		<p>MITS is located in the picturesque and pleasant environs of Madanapallehas and maintains lush green campus Total Campus area: 111976.52 sq.m out of which 58940 Sq.m is green area making it more than 50% of campus area.</p> <p>The campus is covered with trees and plants of many species. Recycled water from sewage treatment plant is provided to the gardens through highly efficient drip irrigation method.</p> <p>The green cover Details: Lawn: 132 sq met, Tree cover: 9381 sq met, shrubs and hedges: 631 sq met and potted plants: 32.32 sq met.</p> <p>Every year numerous events and awareness programs are organized inside and outside of the campus to promote tree plantation, water conservation, plastic ban etc. Almost all the major events, visit of dignitaries are marked by planting a tree. Initiatives like ‘one student one tree’ are significant move towards making the earth greener.</p>	

5.13	<b>Rainwater harvesting structures and utilization in the campus</b>	
	<p>Rain water is collected open terraces are stored in tanks. The collected water is used in gardening and cleaning purposes. Percolation ponds are also constructed at four prominent places in the campus to improve the ground water.</p> <p>The institute is committed to avoid wastage of water. To raise awareness about the benefits of water conservation, posters are exhibited across the campus to promote the save water campaign. Rainwater harvesting structures is attached as <b>Annexure 64</b>.</p>	
5.14	<b>Alternate Energy Sources</b>	
	<p>Rooftop Solar Power Plant connected to the Grid is generating 150kW power which covers about 50% of power requirement of the campus. The solar generated power is supplied into the distribution network of Discom (Southern Power Distribution Company Limited) through a MoU which is valid for 25 years.</p> <p>The capacity of the plant is planned to be increased up to 900 Kw going forward. To reduce energy consumption, energy efficient appliances are installed. Solar powered streetlights are in use in the campus. The agreement with Southern Power Distribution Company Limited along with other documents are attached in <b>Annexure 65</b>.</p>	
5.15	<b>Solid Waste Management</b>	
	<p>The institute has dustbins on all floors, all departments, common areas, canteen, mess and every open area. Recyclable and biodegradable waste such as the copies and other papers are segregated and recycled and made available to students as laboratory record books at a very nominal rate.</p> <p>The other biodegradable dry solid waste such as dead leaves, papers etc. are not allowed to burn or dump in the ground, rather they are converted into compost by adopting composting process. Use of plastics is strictly banned inside the premises. Hence, plastic cutleries are</p>	



		not in use anywhere in the campus. Use of papers is highly demotivated at all departments and only urgent and unavoidable works are paper dependent.	
	<b>5.16</b>	<b>Liquid waste management</b>	
		<p>Sewage treatment plant of capacity 50kl in 10 working hours per day is installed and the treated water is used for irrigation in the institute and other non-drinking water purposes.</p> <p>Eco friendly floor cleaners are used for floor and rest room cleaning and the water is disposed to sewage treatment plant for recycling. The current capacity is planned to be increased up to 200 klpd.</p>	
	<b>5.17</b>	<b>E waste management</b>	
		<p>Bins are made available for all the stakeholders near the computer centre to collect the E waste and the E-waste is disposed through authorized vendors for recycling.</p> <p>E-Waste certificate dated 25-05-2023 for recycling and disposal is attached as <b>Annexure 66</b>. Buy back agreement is preferred during purchase of computers, machineries, electronic equipment's. LED bulbs are only replacement for lighting appliances. Soon, whole campus and hostels will be LED lighted only</p>	
	<b>5.18</b>	<b>Disaster preparedness</b>	
		<p>Disaster prevention and mitigation is in place which involves availability of firefighting equipment, quick evacuation plan, marking of assembly point, availability of first aid kits, dispensary, ambulance etc.</p> <p>Apart from that, staff are trained by professionals on efficient usage of fire extinguishers periodically. A course on disaster management is offered to all the students as mandatory requirement for completion of degree.</p>	

<b>6.0</b>	<b>Financial Planning: Current</b>	
	<p>Cost estimation for infrastructure, facilities, and Development: Existing infrastructure facilities:</p> <p>The current built-up area for classrooms, libraries, labs, computer centres, cafeteria, auditorium, seminar halls, playground etc. in the existing campus is as below:</p> <ol style="list-style-type: none"> <li>1. Built-up area of Academic area+ Administrative area+ Amenities area=24041 sqm,</li> <li>2. Circulation area =9842 sqm</li> <li>3. Total constructed area= 33883 sqm,</li> <li>4. Cost estimation of Academic area+ Administrative area+ Amenities area=24041 @ Rs 15000= Rs.3607 lakhs</li> <li>5. Cost estimation of Circulation area=9842@Rs.5000= Rs 493 lakhs</li> </ol> <p>Total existing Building cost=3607+493= Rs 4100 lakhs</p>	

**Table 33: Existing Building Details**

<b>Existing Building Details</b>		
<b>Particulars</b>	<b>No. of Rooms</b>	<b>Area in Sqm</b>
Class Rooms	77	5642
Tutorial Rooms	19	907
Computer centre	3	450
Laboratories	74	6466
Drawing Halls	3	442
Workshop & Additional workshop	5	864
Library	3	1626
Seminar halls	4	588
Multipurpose and Others	7	85
Auditorium	1	709
Academic Area		17779
Administrative Area	54	3459

Amenities Area	62	2803
Circulation Area		9842
<b>Total Existing Area Available in Sq. M</b>	<b>311</b>	<b>33883</b>

**Table 34: Current Revenue Model**

	<b><u>Revenue model (tuition fees, grants, donations, etc.)- Current</u></b>	
	As per audited Income Tax return of Financial Years 20-21, 21-22 and 2022-23 is attached already attached in <b>Annexure-10.</b>	
	Audited statement of Financial Year 2022-2023	

**Table 35: Income Heads**

<b>Income Heads</b>	<b>Amount in Rs.</b>
<b>Fee collection</b>	
B.Tech Fee Collection	36,27,54,514
MBA Fee Collection	1,12,87,193
MCA Fee Collection	1,81,78,744
M.Tech Fee Collection	1,15,688
<b>Other collection</b>	
NBA Fees	48,95,900
Special Fees	1,12,30,012
<b>Other income</b>	
Interest income	13,02,528
Miscellaneous income	4,99,445
Transport charges from staff	10,84,475
San prints income	2,63,968
Reversal of provision of salaries	4,54,55,289
R&D Department	
SB Interest	1,441
FD Interest	38,006
Consultancy Income	8,25,313
<b>Total</b>	<b>45,79,32,516</b>

**Table 36: Expenditure Heads**

<b>Expenditure Heads</b>	<b>Amount in Rs.</b>
Departmental Expenses	40,26,724
Depreciation on Assets	1,96,33,541
Salaries & Wages	32,10,82,737
Vehicle Maintenance	1,40,95,455
College Operating Expenses	91,05,497
Communication and Correspondence	44,51,024
Bank charges	76,607
JNTU Fee and Other Payments	6,79,350
Membership and Other Fee	28,02,265
National Festivals, Events and Celebrations	9,85,161
Power and Fuel	49,66,369
Printing Stationery and Consumable	55,61,826
Professional Charges and Consultancy	57,22,370
Promotion and Publicity Expenses	15,36,126
Rent, Rates and Taxes	13,70,410
Repair and Maintenance	84,68,091
Research and Development Expenses	12,57,967
Social Service Activities	1,99,150
Staff and Student Welfare Expenses	22,20,971
Training and Placement Expenses	11,89,460
Travel Boarding and Lodging	38,55,972
Examination Conducting Expenditure	19,62,912
Total	41,52,49,985

**Note:** Excess over Income of Rs. 426.83 lakhs are utilized for the Development of the Institute.

<b>7.0</b>	<b>Current Academic Programs</b>	
	<p>Keeping in view of the interest of the students as the highest priority, the Institute is committed to provide quality education through systematic academic plans for both Under-Graduate (UG) and Post-Graduate (PG) programs.</p> <p>There is a dedicated Vice Principal (Academics) who is responsible for preparation of academic calendars and continuously monitor the effective implementation of the same.</p> <p>Each academic year consists of two semesters. Each semester spans 17 weeks to accommodate 90 working days in a semester. MITS academic calendar is prepared by gathering inputs from Heads of various departments and IQAC Cell.</p> <p>The Academic Calendar is prepared in the beginning of each academic year at the college level mentioning the duration of instruction in the form of spells, internal exam (Mid Term Test) dates and End Semester Examination dates. The institute strictly adheres to the academic calendar. This helps the students and faculty to plan the Industrial Visits, Internships, Workshops/FDPs etc., for each semester well in advance.</p> <p>The academic calendar serves as a guideline for the recruiters and placement &amp; training team of MITS to schedule campus placements and training sessions effectively for the students during the course of the study.</p> <p>The academic calendars for all programs are made available in the institute website before the commencement of the semester. <a href="https://mits.ac.in/ugc-autonomous-exam-portal">https://mits.ac.in/ugc-autonomous-exam-portal</a>. The adherence to the academic calendar also helps the International Relations Office and Industry Interaction Cell of MITS to plan International and National Internships for students without disturbing their regular class work and examinations.</p> <p>The course files are prepared for each course by the</p>	

respective faculty members with the detailed lesson plan based on the academic calendar in the beginning of the semester itself. This includes lesson plans/handouts, lecture notes, quizzes, model question papers, mini projects, topics for seminars, etc., The course plan contains course objectives, syllabus, mapping of CO with PO, detailed lesson plan, assessment planning and teaching methodologies. This helps in effective delivery of the course content to the students in the stipulated period. The copies of the same are maintained in the department and the same is shared with students through Moodle, an e-learning platform.

A report is prepared by the faculty, where the lesson plan is compared with the number of classes actually conducted in that period. If there are any deviations in the class log books, the faculty has to arrange for extra classes to make up for the same within that period.

Faculty members are provided with Moodle software login to distribute lesson plans, course materials, presentations, videos and quizzes so that students could get relevant supplementary instructional material.

All students and faculty members are enrolled in the Moodle e-learning platform for facilitating interactive learning.

All UG and PG programs in the institution comprise of several courses, each having a syllabus of five units. First mid-term test is conducted for I and II units of syllabus whereas the second mid-term test is conducted for III, IV and V units.

In relevance with the institute academic calendar, the various departments in the college prepare their calendars, disseminating the plans pertaining also to extra-curricular and co-curricular activities. Events such as workshops, guest lectures, seminars and symposiums are planned tentatively in the department academic calendar.

By proper planning, implementation and execution of the academic calendar, the interests of all the stakeholders are fulfilled.

<b>8.0</b>	<b>Current Academic Departments and Disciplines</b>	
	The various academic departments with their Year of Inception and current Students Intake details are given below along with Approval given by AICTE for the academic Year 2023-24 as in <b>Annexure 67</b> .	

**Table 37: Current Programs**

<b>S. No</b>	<b>Title of the Program</b>	<b>Year of Inception</b>	<b>Current Students Intake</b>
1.	B. Tech - Civil Engineering	2014	60
2.	B. Tech - Electrical & Electronics Engineering	1998	60
3.	B. Tech - Mechanical Engineering	1998	60
4.	B. Tech - Electronics and Communication Engineering	1998	300
5.	B. Tech - Computer Science & Engineering	1998	240
6.	B. Tech - Computer Science & Technology	2018	180
7.	B. Tech - Computer Science & Engineering (Artificial Intelligence)	2020	180
8.	B. Tech - Computer Science & Engineering (Data Science)	2020	180
9.	B. Tech - Computer Science & Engineering (Cyber Security)	2020	120
10.	B. Tech - Computer Science & Engineering (Artificial Intelligence & Machine Learning)	2023	60
11.	B. Tech - Computer Science & Engineering (Networks)	2023	60
12.	Master of Business Administration	2004	180
13.	Master of Computer Applications	2004	180

9.0	<b>Current Research &amp; Development Cell</b>	
	<p>Research &amp; Development Cell is established at MITS to promote research, innovations, collaborations, consultancy activities and also facilitate the protection of Intellectual Property (IP) so generated at MITS. The Institute brings experts from different fields to share their knowledge with the faculty members in the areas of innovation, research etc.</p> <p>MITS encourages faculty to publish quality research papers in SCI and SCIE indexed journals. During the last five years, from 2018-19 to 2022-23, 564 Journal papers have been published and the list is attached in <b>Annexure 68</b>.</p> <p>Further, 571 Scopus publications including Conference papers have been published in the same period and the list is attached in <b>Annexure 69</b>.</p> <p>Also, 63 papers have been published in UGC CARE listed journals and the same is attached in <b>Annexure 70</b>.</p> <p>The Institute encourages innovation and filing of Patents by the faculty members. When a faculty files for a patent, thorough scrutiny will be carried out at different levels to review the same. The Institute will bear all expenditures for filing the application for patent. If the patent is commercialized, revenue shall be shared by the Inventor and the Institute as per the guidelines from time to time. 77 patents have been filed and the same is attached in <b>Annexure 71</b>.</p> <p>The Institute encourages faculty members to submit proposals for funded research projects. In this direction, faculty members are provided with required research facilities and financial support in the form of seed grants. 29 Projects have been granted by various agencies worth of Rs. 419.53 Lakhs. The list of the funded Research Projects is attached in <b>Annexure 72</b>.</p>	



<b>10.0</b>		<b>Current Student Holistic Development Activities</b>	
	<b>10.1</b>	<b>Value Based Education</b>	
		<p>Students of the professional programs are meant to serve the public by strictly adhering to codes of conduct and placing paramount importance to the health, safety and welfare of public. Students of B.Tech, MBA &amp; MCA ought to grow and develop themselves holistically such that they become responsible citizens of the country.</p> <p>MITS focuses on imbibing Ethics into the thought process of the students with the following objectives.</p> <ol style="list-style-type: none"> <li>1. To prepare students for their professional responsibilities as Engineers and management professionals.</li> <li>2. To help them recognize and think through ethically significant problem situations that are common in Engineering</li> <li>3. To evaluate the existing ethical standards for engineering/Management Practice.</li> </ol> <p>MITS emphasizes on the all-round development of students during their stay in our campus. Keeping this in mind, we conduct three-week induction program as well as bridge program which enables them to get a better perspective of the expectations from the faculty and the Institute.</p> <p>A Course on engineering ethics is added to the curriculum such that students understand the value of ethics in life. Similarly, faculties are trained on the Universal Human Values and they conduct course on UHV. Students also get opportunity to attend yoga classes for their physical and mental growth.</p>	

**Table 38:** Result Analysis of Ethics in Engineering Practice

<b>18HUM3M02 - Ethics in Engineering Practice</b>			
<b>Sl. NO</b>	<b>No of Students Appeared</b>	<b>No of Students Appeared</b>	<b>No of Students Appeared</b>
1	185	185	185
2	203	203	203
3	279	279	279

10.2	<b>Student Career preparation, Placements, Higher Education</b>	
	<p>The institute focuses on placement training, various entrepreneurship development programs and GATE, TOFEL, IELTS, etc. towards preparing the students for higher studies.</p> <p>MITS is proud to share that 85% of the eligible students get placed on completion of their program. MITS-Placement Cell concentrates on career exploration, self-assessment, long-term career planning, and developing networking skills, in addition to job search strategies for the short-term. Along with an intense focus on students' success, the Placement Cell is committed to creating and maintaining positive relationships with corporate employers. MITS-Training and Placement Cell (TPC) team manages active relationships with companies that recruit students, working to ensure that the recruiting process is smooth, hassle-free and rewarding. In concert with administration, faculty-corporate relations and students, the TPC works continually to bring new companies on-Grounds and to expand existing relationships. The TPC also maintains an intranet that facilitates many technical aspects of the job search, allowing students to manage their search electronically from computers on-Grounds or online. Using the TPC site, students can reach companies and contacts, search for employment opportunities, apply for jobs, sign up for company presentations, schedule on-Campus interviews and much more.</p> <p>We also encourage students to go for higher studies. As an outcome of our international MoUs in the last 5 years, 26 students have joined different universities for MS Programs. Apart from this, about 390 students have gone on their own to different universities abroad for Master's program. Similarly, our students have joined different NITs, State Universities for Master's program in the AY 2022-23 and 5 students have qualified in GATE. The details are attached in <b>Annexure 73</b>.</p>	

<b>10.3</b>	<b>Skill Development Centre</b>	
	The objective of the skill development centre is to boost employability and productivity of student's by providing adequate training on recent technologies and Impart training through Industry and Academia experts.	
<b>10.4</b>	<b>Skill Oriented Courses</b>	
	They were introduced in R2020 B. Tech Curriculum to improve graduates' employability skills. There shall be five skill-oriented courses of 2 credits each offered during III to VII semesters. Out of these five skill-oriented courses, one shall be a soft skill course and the remaining four shall be Domain / Interdisciplinary / Job oriented courses.	
<b>10.5</b>	<b>Microsoft upskilling programs</b>	
	<p>Microsoft Upskilling Program is an initiative of APSCHE. The objective of this Program is to learn new skills and discover the power of Microsoft products with step-by-step online learning modules and earn Microsoft Certifications to keep pace with the trend.</p> <p>The government of Andhra Pradesh had implemented an extensive student skilling initiative in collaboration with Microsoft Corporation (India). The Andhra Pradesh State Council of Higher Education (APSCHE) launched the Microsoft upskilling program for engineering and degree college students in December 2021, offering it for free to 162,000 students.</p> <p>This program includes more than 40 courses and certifications available on Microsoft Learn, encompassing a wide array of emerging technologies such as cloud computing, artificial intelligence (AI), data sciences, the Internet of Things (IoT), and M365, among others.</p> <p>So far, 2,000 students and faculty members from the MITS have enrolled in 12 different courses, with 1,653 students and 41 faculty members successfully completing the online assessments and receiving certificates.</p>	

10.6	<b>Massive Open online Courses (MOOCS)</b>	
	<p>MITS has established a local chapter with IIT Madras for NPTEL (National Program on Technology Enhanced Learning) since 2015. MITS students have consistently excelled in NPTEL courses, often achieving elite, silver, and gold rankings.</p> <p>MITS has consistently received an "AAA" rating from NPTEL since July-December 2016, which is a remarkable achievement considering there are 3,600 local chapters. Building on this success, MITS secured the 1st position in the country for Jan-Apr 2018 and July-Dec 2018 with an "AAA" rating.</p> <p>Notably, MITS has maintained its "AAA" rating from NPTEL for the seventh consecutive time, which is a testament to the institution's excellence in Swayam-NPTEL online certificate courses. NPTEL rates universities and colleges based on their students' performance, and this rating is determined by the scores achieved by the students.</p> <p>Recently, MITS received an "AA" rating for the January-April 2023 exams, showcasing a consistently high standard of performance in Massive Open Online Courses. Since 2015, MITS students and faculty members have been awarded over 25,000 certificates in recognition of their achievements in NPTEL courses.</p>	

**Table 39: Details of NPTEL: 2018 – 2023**

Academic year	Semester	No of students appeared	Certified	Gold	Silver	Elite	Successful	Topper	Rating	Rank
2018	Jan – Apr	2441	2071	1	-	227	1843	40	AAA	1
	July – Dec	2544	2457	13	-	1190	1254	61	AAA	1
2019	Jan – Apr	3041	2144	32	733	189	1120	70	AAA	7

	July – Dec	3669	2964	20	277	1453	1120	94	AAA	4
2020	Jan – Dec	2512	2001	03	214	1059	691	34	AA	11
2021	Jan – Dec	2251	1907	05	182	846	838	36	AAA	14
2022	Jan – Apr	1833	1303	11	158	530	553	51	AA	27
	July – Dec	3270	2899	19	667	1349	766	98	AAA	06
2023	Jan – Apr	3965	3115	18	371	1381	1224	121	AA	11

	<b>10.7</b>	<b>Soft Skills Programs</b>	
		<p>To enhance oral communication, writing communication, resume preparation and improve presentation / interview skills, B. Tech students were trained by soft skill trainers from SWAYAM NPTEL, IIT Chennai. Soft Skill training and Verbal Training is periodically provided to all the B. Tech / MBA / MCA Students to improve their oral and written Communication.</p> <p>Employability Skill Programme was conducted by Mahindra Pride Classroom, Nandi Foundation for B.Tech / MCA girl students to enhance their interpersonal skills, life skills and interview skills.</p>	
	<b>10.8</b>	<b>Technical Skill Development</b>	
		<p>The Placement and Training Team conducts technical training on Python, JAVA and C Programming to benefit the pre-final students and equip them for placements. External trainers are invited to the campus for providing Company Specific Training Programs for enhancing placements in reputed organizations.</p> <p>Faculty members from the Institute train the students on Fundamentals related to Domain / Discipline to enable the students to crack placements in Core Companies.</p>	
	<b>10.9</b>	<b>Outreach Activities</b>	
	<b>10.9a</b>	<b>National Cadet Corps (NCC)</b>	
		National Cadet Corps (NCC) of MITS started in 2016. It has presently a strength of 102- cadets (Army), it is attached to 35 - Andhra Battalion, Chittoor, under Tirupati Head Quarters. NCC unit of MITS is certainly a leading cell that fosters the overall	

		<p>development of each of its cadet in every field like sports, academics, cultural activities or adventurous activities. NCC has made an ineradicable mark in its entire program. The humble growth of NCC in MITS from just a cell that lacked shine to a group that brought glory to the institution.</p> <p><b>Aim of the NCC</b></p> <p>The ‘Aims’ of the NCC laid out in 1988 have stood the test of time and continue to meet the requirements expected of it in the current socio-economic scenario of the country. The NCC aims at developing character, comradeship, discipline, a secular outlook, the spirit of adventure and ideals of selfless service amongst young citizens. Further, it aims at creating a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the Nation regardless of which career they choose. Needless to say, the NCC also provides an environment conducive to motivating young Indians to join the armed forces.</p>
	<b>10.9b</b>	<b>National Service Scheme (NSS)</b>
		<p>National Service Scheme (NSS) has been introduced at MITS in 2003 as a part of the academic programs and since then NSS has been functioning as a regular feature in the realm of our Academics. The overall objective of the scheme is educational and service to the community. It is the activity through which the objective is sought to be achieved. It is a student-cantered program in which projects are implemented by the NSS volunteers in the community in close collaboration with the community and thereby it provides vast scope for the student's interaction with the people.</p> <p>Madanapalle Institute of Technology &amp; Science NSS is registered under “JNTUA. Reg No.-AP-07-005”.</p> <p>Some of the activities undertaken under NSS are:</p> <ul style="list-style-type: none"> <li>● Awareness Rallies</li> <li>● Pledges</li> <li>● Smart Pulse Surveys</li> <li>● Environment Protection</li> <li>● Yoga &amp; Meditation &amp; Relaxation Techniques</li> <li>● Blood Donation Camps</li> <li>● Swatch Bharath Camps and</li> <li>● Special Camps etc.</li> </ul> <p><b>Motto of NSS</b></p> <p>The motto or watchword of the National Service Scheme is "NOT</p>

ME BUT YOU".



**NSS Achievements:**

- Adopted Angallu village and organised some programs as given under: Donated CC Cameras for Traffic Police, Free distribution of Homeo medicines for dengue fever, Organised socio economic survey by NSS students, Swachh Bharat Programmes etc.
- Every year 100 students are enrolled for NSS as volunteers.
- Since 2017, every year 10 best students received best volunteer award with medal & certification from MITS Annual day.
- MITS NSS Cell is registered with Unnat Bharat Abhiyan (UBA) in 2019 and volunteers are working with five cluster villages (Thettu, B Kothakota, Ponnetipalem, Kollabayalu and Madanapalle rural) for the development of rural villages.
- MITS NSS cell got first place in the state of Andhra Pradesh for creating awareness about Voting Right and enrolling the youth in voters list in 2014. The Chief Election Commissioner has visited MITS to appreciate the students for this achievement.
- Every Year MITS NSS Unit donated nearly 350 units of blood.
- MITS-NSS Cell Donated Rs.10,000/- for Indian Association for the Blind, Madurai, received Gold Appreciation Award & Certification.
- NSS Volunteers participated and won first and second prizes in District level and University Level NSS Youth Festival respectively Jan 2020.
- In view of Post COVID-19 Swachhta Action Plan and Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC) action plan submissions, we received recognition certificates from Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, and Government of India.

	<b>10.10</b>	<b>Rural Immersion Program</b>	
		<p>Rural immersion course, which has been part of our flagship MBA program since inception, reflects our commitment to create responsible leaders by providing values-based education and to make a meaningful contribution to the region. We believe that it is essential for future managers or entrepreneurs to have a good understanding of the social and political background of the country. To pursue this, rural Immersion starts with a course on the Indian Social and Political Environment and continues with the class dividing into five-person teams which spend a week in a village where they work closely with NGOs to appreciate on-the-ground realities and challenges faced by those at the bottom of the pyramid.</p> <p>The rural immersion program allows students to develop sensitivity to rural issues through direct experiential learning. Students are connected with the local NGO partners working in the areas of livelihood, health, and education. These grassroots organizations work as liaison and host for the students. Students have pre-defined assignments designed for them which they execute in groups. One important part of these assignments is to develop an understanding of the socio-economic status and resources of a village through participatory rural appraisal methods. Students conduct door to door surveys, focus group discussions and informal discussions.</p> <p>Rural growth in India has developed rapidly. The Rural Consumer is now spending more. This is the Market of Tomorrow and the students need to be sensitized to the dynamics of doing business in rural India. Rural immersion program helps students to understand through field trips over a period of one week. This initiative uses the experimental learning model to create complete manager who can stand up to the pressures of modern world.</p> <p>Since it helps in gaining Knowledge, learning and understanding the role of the individual enhancement in leadership qualities, understanding the behavior of people and practical knowledge.</p> <p>The rural immersion program allows students to develop sensitivity to rural issues through direct experiential learning. Students are connected with the local NGO partners working the areas of livelihood, health, and education. These grassroots organizations work as liasion and host for the students.</p> <p>Students have pre-defined assignments designed for them which they</p>	



		execute in groups. One important part of these assignments is to develop an understanding of the socio-economic status resources of a village through participatory rural appraisal methods. Students conduct door-door surveys, focus group discussions and informal discussions. Their classroom lessons on Indian Social Political Environment provide them with the necessary background to prepare their assignments.
	<b>10.11</b>	<b>Physical Education</b>
		<p>MITS is having a vibrant campus with sports activities all the while keeping the focus on academics. Physical fitness and mental wellbeing of the students are strengthened through the sports activities.</p> <p>The sports and games activity of the college are coordinated by the Department of Physical Education &amp; sports under the guidance of Physical Director. The college has spacious Football/Cricket ground, 2 Basketball courts, 4 Volleyball court, Cricket net for practice, Shuttle court. Apart from these there are also indoor sports facility for Table Tennis, Chess and Carom boards.</p> <p>Inter departmental tournaments such as Chess, Basketball, Football, Table Tennis, Badminton, Basketball, Free Throw, Volleyball, etc. are conducted every year. The Volleyball tournament is a very prestigious event in which colleges from across the district and university level take part. Temper run high and passion come to the boiling point especially when the home team is in finals. But with the true sportsman spirit the students cheer for both the sides and congratulates the winner as an excellent host.</p> <p>Yoga classes are conducted regularly in the college and international yoga day is celebrated with all importance and with huge participation.</p> <p>A Gymnasium is there for the health and fitness of the Students and Staff.</p> <p>The facility and the ambience provided in the MITS campus are so</p>

		effective that students and team performs extremely well and top in different athletic, sports and games tournaments conducted at the University and State levels.
	<b>10.12</b>	<b>Extra-Curricular activities: Student Clubs</b>
		MITS conducts various activities through student's club as Art & Cultural Club, Film making Club, Sports Club, MSR Club, Tech Club, Builders Club, Literary Club, Yoga & meditation Club, SKILL BEE Club, UIRPA Club, Ancho Club, Radio Jockey Club, etc. It plays a crucial role in determining and channelizing the passion and interest of students much, beyond their academic pursuit.
	<b>10.13</b>	<b>Extra-Curricular activities: Techno-Fest</b>
		ASHV Techno-Fest is the biggest Intercollegiate Techno Fest with attractive prize money attracting participations from various colleges every year. It gives opportunity to the students to show their talents. College observes various National festivals, which brings colourful ambience in the college life.
	<b>10.14</b>	<b>Minor and Honors Program</b>
		<p>The institute has introduced Minor Program for all B. Tech students under R2020 Regulations to inculcate interdisciplinary domain knowledge. This would create additional learning opportunities for academically motivated students who are desirous of pursuing courses in their special interest areas other than the chosen discipline of Engineering. The Student shall earn additional 20 credits in the specified area to be eligible for the award of B.Tech. Degree with Minor.</p> <p>The institute has introduced Honors Program for all B. Tech Students under R2020 Regulations. The objective of introducing B.Tech. (Hons.) is to facilitate the students to choose additionally the specialized courses of their choice and build their competence in their domain of specialization at UG level. This Honors Program is a best suited for academically excellent students having good academic record and interest towards higher studies and research. A student shall earn additional 20 credits for award of B.Tech.(Honors) degree from same branch/department/discipline. A student can enroll either for Minor or Honors subject to fulfilment of certain laid down conditions.</p>

10.15	<b>Choice Based Credit System</b>
	<ol style="list-style-type: none"> <li>1. B. Tech Students have the flexibility to choose Five Courses as Professional Electives and Five Courses as Open Electives in B. Tech R2020 Regulations. Institute encourages the students to take up Massive Open Online Courses for Credit Transfer from standard MOOC's service providers like SWAYAM NPTEL. B. Tech Students can opt One Professional Elective and Two Open Electives from MOOC's platforms.</li> <li>2. MCA Students have the flexibility to choose three Courses as Professional Electives and One Course as Open Elective in MCA R2020 / R2022 Regulations.</li> <li>3. MBA Students have the flexibility to get dual specialization under R2020 / R2022 Regulations. The student can have single or dual specialization. In all there are Six specialization modules offered by the Institute Viz: Financial Management, Marketing Management, Human Resource Management, Strategic Management, Analytics and Banking &amp; Insurance. If the student wants to opt single specialization, then they will take any one specialization as both Major and Minor. If the student opts for dual specialization, then they will take one specialization as Major and the other specialization as Minor.</li> </ol> <p>Currently being an autonomous institute, there are restrictions from the affiliating University to implement National Educational Policy (2020) to the fullest extent. In this direction, on becoming a Deemed to be University we aim to offer a more impactful and skill-based education to equip the students with employable skills upon graduation.</p> <p>In the future, the Institute plans to align its activities to achieve the following:</p> <ol style="list-style-type: none"> <li>1. To provide programs with multiple entry and multiple exit options.</li> <li>2. UG Certificate in (Field of study/discipline) – Programme duration: First year (first two semesters) of the undergraduate programme, followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6- credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.</li> <li>3. UG Diploma (in Field of study/discipline) – Programme duration: First two years (first four semesters) of the</li> </ol>

		<p>undergraduate programme, followed by an additional exit 10-credit bridge course(s) MITS- B.Tech. R2023 Academic Regulations lasting two months, including at least 6- credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.</p> <ol style="list-style-type: none"> <li>4. Bachelor of Science (in Field of study/discipline) i.e., B.Sc. Engineering in (Field of study/discipline)- Programme duration: First three years (first six semesters) of the undergraduate programme,</li> <li>5. Bachelor of Technology (in Field of study/discipline) i.e., B.Tech. Engineering in (Field of study/discipline)- Programme duration: Four years (Eight semesters) of the undergraduate programme,</li> </ol>
	<b>10.16</b>	<b>Implementation of ABC</b>
		<p>The University has implemented Academic Bank of Credits (ABC) to promote flexibility in curriculum as per NEP 2020 to</p> <ol style="list-style-type: none"> <li>1. Provide option of mobility for learners across the universities of their choice</li> <li>2. Provide option to gain the credits through MOOCs from approved digital platforms.</li> <li>3. Facilitate award of certificate/diploma/degree in line with the accumulated credits in ABC</li> </ol>
	<b>10.17</b>	<b>Implementation of NEP</b>
		<ol style="list-style-type: none"> <li>1. To offer demand driven training programs based on local / global needs.</li> <li>2. To offer training programs for industry professionals.</li> <li>3. To offer flexible and credit mapped degrees and diplomas across various disciplines in line with ABC of NEP 2020.</li> <li>4. To be one among the leading institutes offering Doctoral, Masters', and Bachelors' degree programs in cutting edge technologies and produce graduates with proficient and competence skills to meet the industrial demands.</li> <li>5. To establish MoU's with reputed National / International Universities / Research Organizations to facilitate faculty / student exchange programs, collaborative research and offer joint degree / certification programs in emerging areas of Engineering / Management Studies</li> <li>6. To offer consultancy services to industrial / research</li> </ol>

		<p>organizations.</p> <p>7. To enhance innovation, patenting of ideas and promote entrepreneurship</p> <p>8. To acquire international accreditations.</p> <p>9. To develop educational products for integrating technology into teaching learning</p>	
	<b>10.18</b>	<b>Multi-Disciplinary Programs</b>	
		<p>MITS always believe that education should be pragmatic, achievable and complementary to life. A holistic and multidisciplinary learning is a unique educational approach that allows pupils to learn and explore different courses or curricula from different areas of study. Learning should not remain confined to the boundaries of a particular discipline. The quality and number of students coming out of our institute will determine our success in raising the standard of living of our people in the Rayalaseema region. MITS imparts professional Engineering programs which helps students to embark in their professional journey.</p> <p>We quote the different provision of the National Education Policy 2020 which stipulates the following:</p> <p><b>Quote</b></p> <p>9.1. Higher education plays an extremely important role in promoting human as well as societal wellbeing and in developing India as envisioned in its Constitution - a democratic, just, socially conscious, cultured, and humane nation upholding liberty, equality, fraternity, and justice for all. Higher education significantly contributes towards sustainable livelihoods and economic development of the nation. As India moves towards becoming a knowledge economy and society, more and more young Indians are likely to aspire for higher education.</p> <p>9.1.1. Given the 21st century requirements, quality higher education must aim to develop good, thoughtful, well-rounded, and creative individuals. It must enable an individual to study one or more specialized areas of interest at a deep level, and also develop character, ethical and Constitutional values, intellectual curiosity, scientific temper, creativity, spirit of service, and 21st century capabilities across a range of disciplines including sciences, social sciences, arts, humanities, languages, as well as professional,</p>	

technical, and vocational subjects. A quality higher education must enable personal accomplishment and enlightenment, constructive public engagement, and productive contribution to the society. It must prepare students for more meaningful and satisfying lives and work roles and enable economic independence.

9.1.2. For the purpose of developing holistic individuals, it is essential that an identified set of skills and values will be incorporated at each stage of learning, from pre-school to higher education.

9.1.3. At the societal level, higher education must enable the development of an enlightened, socially conscious, knowledgeable, and skilled nation that can find and implement robust solutions to its own problems. Higher education must form the basis for knowledge creation and innovation thereby contributing to a growing national economy. The purpose of quality higher education is, therefore, more than the creation of greater opportunities for individual employment. It represents the key to more vibrant, socially engaged, cooperative communities and a happier, cohesive, cultured, productive, innovative, progressive, and prosperous nation.

### **Unquote**

The 18th G20 Summit, hosted by India in September 2023 focused on “to accelerate progress on the Sustainable Development Goals (SDGs), taking a cross-cutting, action-oriented approach to interconnected issues, including health, education, gender equality and environmental sustainability”. The Education Working Group (EdWG) under India’s G20 presidency included “strengthening research and innovation through stronger collaboration in education and training” among higher education institutions in G20 countries as a priority area. In addition, EdWG also recognised the critical role of education in addressing climate change, by recognising ‘lifestyles’ as an accelerator for achieving Sustainable Development Goals (SDG).

MITS has established various departments offering UG/PG programmes in Engineering, Management and Computer Applications. College always aim to break down traditional disciplinary boundaries and encourage collaboration and innovation across different fields of study. In all programmes, courses from the other discipline are included as elective or open courses so that a

student is being able to pursue non major courses of aptitude and liking. This help the students to develop a wide range of skills and perspectives and prepare them for a rapidly changing job market. The alumni from the college who shines at various fronts in the society also witness the overall efficiency of the multi-disciplinary form of the training. At the same time, MITS also conduct research across a range of disciplines, with the goal of creating new knowledge and finding innovative solutions to complex problems.

MITS has envisioned to be a hub of training in all discipline including engineering, management, sciences, arts, humanities, and vocational subjects. It aims to be a Deemed to be University with a multidisciplinary and holistic educational framework aligned with the vision of National Education policy 2020 to enable the learners to become global citizens who appreciate multicultural perspective, develop competences, nurture value and broader outlooks that deepen their commitment towards human rights, sustainable development and promotion of life on earth.

**11.0 Quality Initiatives**

**11.1 Internal Quality Assurance Cell (IQAC)**

Currently, we have Internal Quality Assurance Cell in-place. The IQAC is headed at professor level and the structure is given below.

**11.2 Internal Quality Assurance Cell: A diagrammatic Representation**



**Fig. 3: Internal Quality Assurance Cell: A diagrammatic Representation**

	<b>11.3</b>	<b>The working details: (IQAC)</b>	
		<p>The institute has an Internal Quality Assurance Cell (IQAC), established as per the UGC guidelines, to realize the quality policy of the institute through continuous improvement process.</p> <p>The activities of IQAC and the best practices of the institute are guided by its strategic plan submitted at the beginning of the academic year. The IQAC contribute towards Academic Excellence by improving Curriculum, Teaching &amp; Learning Process, Evaluation Methods and Research atmosphere in the institution. The Cell has synchronized various activities of the institution and institutionalized good practices.</p>	
	<b>11.4</b>	<b>Curriculum enrichment: (IQAC)</b>	
		<p>IQAC is a part of the decision-making bodies such as academic council and board of studies to initiate, sustain and enhance the quality of teaching and learning. The curriculum/ syllabi has been designed considering outcome based education model as per industry requirements, curriculum of AICTE / IITs/NITs and reputed foreign universities.</p> <p>The curricula are updated/revised on a regular basis in consultation with industry experts from various domains and stakeholders.</p>	
	<b>11.5</b>	<b>Distinctive features added</b>	
		<p>In the last five years on the recommendation of IQAC the following distinctive features have been introduced in the academic programs:</p> <ol style="list-style-type: none"> <li>1. Integrated, modular, flexible and industry focused curriculum.</li> <li>2. Employability, entrepreneurship, skill development-based course syllabi.</li> <li>3. Summer Internship to analyse and solve the real world/industrial problems to enhance knowledge and employability skills.</li> <li>4. Flexibility to choose courses as Open Electives (emerging area / other disciplines), Professional Electives to enhance domains knowledge and innovative / critical / design thinking skills.</li> <li>5. Thrust on Multidisciplinary Programs</li> </ol>	
	<b>11.6</b>	<b>Periodical Review</b>	
		IQAC periodically reviews the teaching-learning process, structures & methodologies of operations, and learning outcomes:	



		<ol style="list-style-type: none"> <li>1. Based on the University guidelines, Academic Calendar of the Institute is framed at the beginning of each academic year</li> <li>2. Faculty Members are asked to prepare lesson plan well in advance and also instructed to record the details of the lectures covered in log book</li> <li>3. The IQAC organizes regular Academic / Administrative audits to monitor the effective implementation of teaching learning process and Support facilities / Processes.</li> <li>4. Verification of Mid Term Test question papers / key / result analysis.</li> <li>5. Ensure smooth conduct of remedial classes for weak students.</li> <li>6. Identifying the new processes/delivery methods and recommending the same for improving the quality of teaching learning process.</li> <li>7. Analysing the deviations from the benchmarks and reporting the same to the concerned.</li> <li>8. Institute has the provision of analysis of students' performance after the announcement of their semester results. If the result of the students, in a subject, is not found up to the mark, necessary steps are taken to find out the reasons and ensure that the concerned faculty members are counseled and motivated to work towards improvement.</li> <li>9. Feedback from the stakeholders (students, alumni, industry experts, research organizations and parents) are taken periodically and appropriate actions are initiated to ensure quality.</li> <li>10. Encouraging faculty members for completing Faculty Development Programs through online certification Courses (SWAYAM NPTEL)</li> <li>11. Faculty development Programs are organized every year.</li> </ol>	
	<b>11.7</b>	<b>Curriculum Design and Development</b>	
		<p>As an autonomous Institution, MITS diligently carries out its mandate to develop relevant and comprehensive curricula for all its programs and keep them up to date through regular revisions considering not only the national and global developments but also the local and regional needs.</p> <p>In accordance with the OBE methodology, which has been in practice at MITS since 2013, the curriculum of each new program will be designed keeping in view not only the Vision and Mission of</p>	

the institute but also the Program Outcomes (POs) and Program Specific Outcomes (PSOs) for that program. POs and PSOs for each program spell out the attributes- in terms of knowledge, skills and attitude that the graduates are expected to acquire by the end of the program.

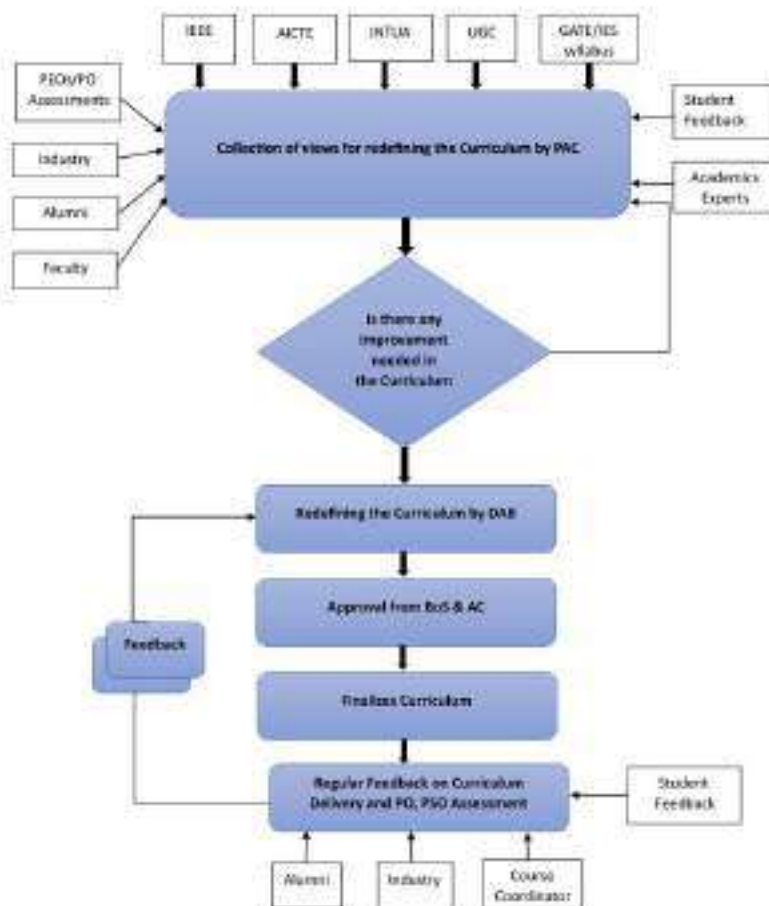
The POs are prescribed by NBA, PSOs, which are articulated by the department offering the program, are more specific to the program and address the local and regional concerns as well. COs are formulated such that, when achieved they contribute to the attainment of the POs and PSOs.

COs especially take into account the local and regional aspects like specific needs of the students joining the program. In addition, the following factors are also considered in curriculum development:

1. Model curricula of AICTE and State Government
2. Curricula of IITs, NITs and other reputed institutions in India and abroad
3. Guidelines of UGC, affiliating University, and other professional bodies
4. Syllabi of GATE, IES, and other similar competitive exams
5. Suggestions/Inputs from academicians, industry experts, employers and alumni.

**Process of Curriculum Development:** Considering the factors mentioned above and drawing the involvement of all the stakeholders, draft versions of the curricula outlining the details like break-up of total credits among Foundation, Core, Electives and Audit Courses; and titles, credits and contents of each course, are prepared by the respective departments.

Experienced faculty who are trained in curriculum design and OBE are involved in drafting the curricula. The content, delivery methods and assessment of each course are designed to ensure the attainment the Course Outcomes for that course which in-turn are designed to meet the requirements of POs, PSOs and PEOs of the respective program.



**Fig 4. Flow chart of Curriculum Development**

11.8	<b>Technical Education Quality Improvement Program (TEQIP)</b>
	<p>MITS was identified for award of TEQIP-II grant under Sub Component 1.1 a Government of India initiative with assistance from World Bank during 2011. Under this Programme, MITS received a Grant of Rs. 400 Lakhs initially. Later, with the continuous superior performance in Performance Assessment Indicators (9/9) received an additional grant of Rs. 200 Lakhs during 2016. A total amount of Rs. 761 lakhs were spent for various quality enhancement activities in MITS during the period from 2011-2019. With this support, MITS has grown leaps and bounds in terms of quality parameters in academics, accreditations, Research etc.</p>
11.9	<b>ISO Initiatives</b>
	<p>MITS achieved ISO 9001:2015 certification successfully and is currently in the process of updating to ISO 21001:2018 Educational Organization Management System (EOMS) certification. This marks a pivotal moment in MITS's commitment to providing quality education, encompassing Undergraduate, Postgraduate, and Doctoral</p>

	<p>levels in Engineering, Business Administration, and Computer Applications</p> <p><b>ISO 9001:2015 Certification:</b> The ISO 9001:2015 certification, valid from September 18, 2020, until September 17, 2023, underscores MITS's dedication to global standards for quality education. The scope includes a comprehensive approach to maintaining excellence across various disciplines.</p> <p><b>ISO 21001:2018 EOMS Application:</b> Currently, MITS has applied for ISO 21001:2018 EOMS certification, expanding the scope to further enhance educational management practices. The application covers education at all levels - Under Graduate, Post Graduate, and Doctoral - in Engineering, Business Administration, and Computer Applications.</p> <p><b>Stage 2 Audit Completion:</b> MITS has successfully completed the Stage 2 Audit for ISO 21001:2018 EOMS, conducted from November 27, 2023, to December 1, 2023. This audit is a crucial step in the certification process, assessing the effectiveness and compliance of MITS's Educational Organization Management System.</p> <p><b>Anticipating Results:</b> As MITS awaits the results of the Stage 2 Audit, the institution is poised to further strengthen its position as a centre of educational excellence. The ISO 21001:2018 EOMS certification, when achieved, will signify MITS's commitment to effective educational management, continuous improvement, and meeting the evolving needs of its students.</p>	
<b>11.10</b>	<b>Quality Initiatives 2022-23</b>	
	<ol style="list-style-type: none"> <li>1. Revision/update of R2020 regulations / syllabi in alignment with AICTE model curriculum, APSCHE.</li> <li>2. Secure NIRF ranking band less than 200</li> <li>3. To attain NABL certification for civil laboratories</li> <li>4. To promote the multi-disciplinary research activities in collaboration with premier institutes and research organizations.</li> <li>5. Encourage the faculty to publish more papers in SCI / SCOPUS Journals and conferences</li> <li>6. To motivate the faculty for filing the patents and getting</li> </ol>	

		<p>funded projects.</p> <ol style="list-style-type: none"> <li>7. To motivate the faculty members of various departments to organize ATAL FDPs.</li> <li>8. To encourage the students to participate in National and State level competitions such as SIH, Make in India etc., in cutting-edge technologies.</li> <li>9. To encourage the faculty members to improve their domain/inter disciplinary expertise, through NPTEL domain certification.</li> <li>10. To improve the self-learning and programming skills of the students through an external and internal training program.</li> <li>11. To communicate the knowledge and skills to the students effectively and also improve the teaching skills of newly recruited faculty members through Faculty Development Programs (FDPs) on Teaching Pedagogy</li> <li>12. To conduct Academic and Administrative audits by internal and external experts to ensure quality in Academic/Research/Support areas.</li> <li>13. To enhance placement activities further, the placement training and assessment examinations need to be conducted regularly and periodically.</li> <li>14. To collect and analyze feedback from all stakeholders to enhance quality.</li> </ol>	
<b>12.0</b>		<b>Conduct of Examinations</b>	
		<p>Marks distribution for Internal Evaluation and End Semester Examination.</p> <p>MITS gives high priority for qualitative assessment in the entire examination process, evaluation and declaration of results.</p>	
	<b>12.1</b>	<b>Student centric features</b>	
		<ol style="list-style-type: none"> <li>1. The performance of a student in each semester shall be evaluated course-wise.</li> <li>2. Performance evaluation in each course (theory/ practical) shall be based on a total of 100 marks, of which the weightage for internal evaluation and end semester examination shall be as follows. <ol style="list-style-type: none"> <li>(i) 40 % (Internal Evaluation) and 60 % (End Semester Examination) – for B.Tech (R2020) &amp; PG (R2022)</li> <li>(ii) 30 % (Internal Evaluation) and 70 % (End Semester Examination) – for B.Tech (R2023)</li> </ol> </li> </ol>	

		3. However, Mandatory courses shall be evaluated entirely on the basis of internal evaluation.	
	<b>12.2</b>	<b>Internal Evaluation</b>	
		<p>The total internal weightage for theory courses is 40 marks with the following distribution.</p> <ul style="list-style-type: none"> <li>• 30 Marks for Mid-term Test and 10 Marks for Assignments – for B.Tech (R2020) &amp; PG (R2022)</li> <li>• 24 Marks for Mid-term Test and 6 Marks for Assignments – for B.Tech (R2023)</li> </ul>	
	<b>12.3</b>	<b>Mid Term Test</b>	
		<ol style="list-style-type: none"> <li>1. The Mid Term Tests will be conducted as per the Academic Calendar.</li> <li>2. To conduct Mid Term Test, minutes of meeting will be conducted in the presence Principal, HoDs and CoE.</li> <li>3. A meeting in the presence Principal, HoD's, Vice Principal-Academics and CoE, status of syllabus coverage, deadlines for the submission of Mid Term Test Question papers and marks statement shall be discussed.</li> <li>4. Head of the department makes necessary arrangements for the submission of Mid Term Test Question Papers, evaluated scripts and consolidated marks statement to the Examination Section.</li> </ol>	
	<b>12.4</b>	<b>Assignments</b>	
		Examination Section maintains the Assignment marks submitted by concerned departments.	
	<b>12.5</b>	<b>Conduction of End Semester Theory Examinations</b>	
		<p><b><u>Question Papers</u></b> All theory question papers for UG and PG shall usually be set by Faculty members from other Colleges.</p> <p>On the request of the CoE, the Chairman, Board of Studies of each program shall submit a copy of the syllabus, model question paper for each course.</p>	

		<p>The database of the paper setters is maintained by COE and shall be used for obtaining end semester question papers.</p> <p>The selected external paper setter shall be contacted by the CoE for setting of two sets of question papers for the course concerned in conformity with the syllabus and prescribed question paper pattern. High confidentiality shall be maintained during this process.</p>	
	<b>12.6</b>	<b>Conduction of Examinations</b>	
		<p>All the End Semester Examinations for UG and PG Programs shall be conducted in accordance with the Academic Regulations.</p> <ol style="list-style-type: none"> <li>1. Chief Superintendent shall overview the smooth conduct of examinations. CoE along with Examination staff shall coordinate with Chief Superintendent in conduction of examinations.</li> <li>2. Examination Notification shall be issued about a 30 to 45 days before the commencement of the examination.</li> <li>3. The Examinations Time Table shall be prepared by CoE and will be notified to the students about two to three weeks before the commencement of the examination.</li> <li>4. Students shall submit the filled in Examination Application Forms as per the Examination Notification.</li> <li>5. Hall Tickets shall be made available well in advance before the commencement of the examinations.</li> <li>6. Usually, the morning session of examination with 3 hours' duration will be between 10.00 a.m. 1.00 p.m. and 2.00 p.m. to 5.00p.m. in the afternoon session.</li> <li>7. Examination Cell prepares the Invigilation Duties with the list of available faculty.</li> <li>8. A Seating Arrangement plan shall be prepared for each examination hall according to day-wise, branch-wise and course-wise requirement.</li> <li>9. The seating plan shall be displayed in each examination hall 30 minutes before the commencement of the examination.</li> <li>10. Seating arrangement should be done in such a way that no communication is possible between the candidates.</li> <li>11. The answer booklets of A4 size which consists of 42 pages, shall be distributed to the students.</li> <li>12. The invigilators should see that only those candidates bearing registered numbers allotted to the respective room are admitted with hall tickets.</li> <li>13. Invigilator should verify whether all the candidates are having</li> </ol>	

		<p>Hall tickets and identity cards.</p> <p>14. During the examination, Chief Superintendent, CoE, ACoE, Examination staff and Observer/Squad are only authorized to enter the Examination Hall.</p> <p>15. Principal has complete powers to change the examination schedule for genuine reasons like bundh, natural calamities, etc.</p>	
	<b>12.7</b>	<b>End Semester Examination (Laboratory Courses)</b>	
		<ol style="list-style-type: none"> <li>1. The list of registered students and batch wise time table shall be prepared by the respective departments and submitted to the CoE for approval under the signature &amp; seal of Head of the Department.</li> <li>2. A panel of Examiners shall be proposed by respective Head of departments submitted to the CoE for approval by the Chief Superintendent/ Principal.</li> <li>3. Selection of examiners shall be done by the Chief Superintendent and appointment orders shall be dispatched prior to the commencement of examination.</li> <li>4. Once the Practical Examination time table is approved by Chief Superintendent then it shall be notified to the students.</li> </ol> <p>After completion of the valuation, the Examiners have to submit Answer Scripts, absentee's statements, marks statements (approved by Chief Superintendent) and any unused stationary to Examination Section.</p>	
	<b>12.8</b>	<b>End Semester Examination Viva-Voce</b>	
		<ol style="list-style-type: none"> <li>1. On the request made by the CoE, BoS chairman shall submit 3-5 Viva-Voce Examiners for each panel according to the eligibility guidelines.</li> <li>2. From the above panel, One External viva-voce examiner shall be selected by the Principal.</li> <li>3. HoD in consultation with CoE will make necessary arrangements for the smooth conduction Viva-voce.</li> </ol> <p>After completion of the viva-voce, HoD shall submit the award sheets (approved by Chief Superintendent) to the CoE.</p>	



	<b>12.9</b>	<b>Malpractice Committee</b>	
		Whenever, the Chief Superintendent receives a report from the concerned authorized persons regarding student malpractice cases, he/she shall call for meeting with malpractice committee for necessary action.	
		The malpractice committee shall be constituted with the Principal as Chairman and Dean Academics / Vice Principal academics, Controller of Examinations, Concerned HoD and Course expert as members	
	<b>12.10</b>	<b>Assessment and Evaluation</b>	
		<b>Question Paper Pattern</b>	
		For UG & PG Programs, Internal and End Semester Examinations Question Paper Pattern is strictly adhere to corresponding Academic Regulations.	

**Table 40: Question Paper pattern**

Program	Question Paper Pattern	
	Internal	End Semester
B.Tech	<b>R2020 Academic Regulations</b>	
	Total Marks= 30 (4 Questions) Duration: 90 Minutes Frequency: 2 Per Semester  <b>Marks Split-up</b> Q.1 – 1 * 6 Marks = 6 Marks  Q.2 to Q.6 - 3 * 8Marks =24Marks (Student shall answer three out of five long answer questions)	Total Marks = 60 (6 Questions) Duration: 180 Minutes. Frequency: 1 Per Semester.  <b>Marks Split-up</b> Q.1 – 10 * 1 Marks = 10 Marks (There shall be two short answer questions from each unit.  Q.2 to Q.6 - 5 * 10 Marks = 50 Marks (There shall be either or type questions from Q.2 to Q.6, each of these questions shall

		cover one unit of the syllabus)
	<b>R2023 Academic Regulations</b>	
	<p>Total Marks= 24 (4 Questions) Duration: 90 Minutes Frequency: 2 Per Semester</p> <p style="text-align: center;"><b>Marks Split-up</b></p> <p>Q.1 – 1 * 6 Marks = 6 Marks</p> <p>Q.2 to Q.6 - 3 * 6Marks =18Marks (Student shall answer three out of five long answer questions)</p>	<p>Total Marks = 70 (6 Questions) Duration: 180 Minutes. Frequency: 1 Per Semester.</p> <p style="text-align: center;"><b>Marks Split-up</b></p> <p>Q.1 – 10 * 1 Marks = 10 Marks (There shall be two short answer questions from each unit.</p> <p>Q.2 to Q.6 - 5 * 12 Marks = 60 Marks (There shall be either or type questions from Q.2 to Q.6, each of these questions shall cover one unit of the syllabus)</p>
	<b>R22 Academic Regulations</b>	
MCA	<p>Total Marks= 30 (4 Questions) Duration: 120 Minutes Frequency: 2 Per Semester</p> <p style="text-align: center;"><b>Marks Split-up</b></p> <p>Q.1 – Q.4 3 * 10 Marks =30Marks (Student shall answer 3 out of 4 questions)</p>	<p>Total Marks= 60 ( 5 Questions) Duration: 180 Minutes. Frequency: 1 Per Semester.</p> <p style="text-align: center;"><b>Marks Split-up</b></p> <p>Q.1 to Q.5 - 5 * 12 Marks= 60 Marks. (There shall be either or type questions from Q.1 to Q.5, each of these questions shall cover on unit of the syllabus)</p>
MBA	<b>R22 Academic Regulations</b>	

	<p>Total Marks= 30 ( 4 Questions) Duration : 120 Minutes Frequency: 2 Per Semester</p> <p>Marks Split-up Q.1 – Q.4 : 4 * 10 Marks =40Marks (40 marks will be scaled down to 30 Marks)</p>	<p>Total Marks= 60 ( 6 Questions) Duration: 180 Minutes. Frequency: 1 Per Semester.</p> <p>Marks Split-up Q.1 to Q.5 - 5 * 10 Marks= 50 Marks. Q.6 : 1 * 10 Marks = 10 Marks (There shall be either or type questions from Q.1 to Q.5, each of these questions shall cover on unit of the syllabus)</p>
--	---	---

12.11	<b>Computation of Final Mid-term Test Marks</b>	
	<p>Final Mid-term marks shall be arrived by considering 80% weightage for the best mid-term test and 20% weightage for the other. In case any student is unable to appear for both mid-term tests for genuine reasons (for example; medical grounds, tragedy in his/her family), the Principal at his discretion on the recommendation of Head of the department and concerned faculty may permit to re-conduct only the 2nd mid-term test.</p> <p>Under R2020 (UG) and R2022 (PG) 10 marks are allotted to assignments and under R2023 (UG) 6 Marks are allotted for Assignments in each theory course. They shall be based on evaluation of two assignments of equal weightage, on topics relevant to that particular course. The first assignment is to be submitted before I mid-term test and the second assignment is to be submitted before II mid-term test.</p>	
12.12	<b>Procedure for Evaluation of End Semester Examination (Theory Courses)</b>	
	<p>Answer scripts according to Course-wise shall be mixed and coded by the examination branch under the supervision of CoE. This shall be done in a manner that the identity of the student is not revealed.</p> <p>During the process of coding, all identification details of the</p>	

	students shall be removed from the answer booklet. Later, the answer booklets shall be packed in bundles and made ready for evaluation.	
<b>12.13</b>	<b>Conduct of Spot Valuation</b>	
	<ol style="list-style-type: none"> <li>1. The answer scripts shall be double valued by a panel of examiners (External and Internal).</li> <li>2. Spot Valuation is held under the overall supervision of the CoE.</li> <li>3. Day wise reporting register will be maintained and all examiners have to sign in the register.</li> <li>4. In case of any anomaly by any of the paper evaluators CoE will have all rights to dismiss/ cancellation of his/her examiner ship on the spot and disciplinary action would be initiated against such individuals if necessary.</li> <li>5. The database of the examiners for various courses is maintained by COE and shall be used for appointment of examiners.</li> <li>6. For each course, a detailed Scheme of Evaluation and a Key shall be prepared by the course Coordinator. Chief Examiner is authorized to make any corrections in Key/Scheme of evaluation.</li> <li>7. Each script is evaluated by both the examiners, separately and independently, strictly adhering to the key and detailed scheme of evaluation.</li> </ol>	
<b>12.14</b>	<b>Preparation of Statement of Marks</b>	
	<p>For each candidate the difference in the total marks awarded by each Examiner shall be computed.</p> <p>If the obtained difference is less than or equal to 15% of the maximum marks, the final mark shall be arrived by considering 80% of the higher mark and 20% of the lower mark.</p> <p>In case, the obtained difference of the marks awarded by the two examiners exceeds 15% of the total external marks for a given course; the Chief examiner shall request the two examiners to Re-examine the relevant answer script.</p> <p>If the difference in marks awarded by the two examiners after</p>	

	<p>re-examination still exceeds 15% of the total external marks, the Controller of Examinations in consultation with the Principal shall appoint the third examiner for re-evaluating the script. Of the three marks available thereafter, the highest two shall be considered for the application of the above stated 80% -20% formula.</p> <p>The Chief examiner shall submit a consolidated Statement of Marks to the CoE. The Final marks shall be posted on the answer script by the chief examiner</p>	
<b>12.15</b>	<b>Computation of Letter grade, SGPA, CGPA and Results Declaration</b>	
	<ol style="list-style-type: none"> <li>1. Once the marks are finalized, they are imported into the software tool.</li> <li>2. Once the marks data is available in the required manner, as per the grading system approved, the letter grade, grade point are computed through the software tool.</li> <li>3. Based on the letter grade and grade point for each course, the SGPA and CGPA are calculated for each student.</li> <li>4. Various result analysis reported are generated and made available for discussion in the results committee meeting chaired by the Principal along with the Affiliating University nominee.</li> <li>5. Once cleared in this meeting they are displayed in the college website and as well as individual student logins.</li> </ol>	
<b>12.16</b>	<b>Regulations for MOOCs</b>	
	<ol style="list-style-type: none"> <li>1. Institution intends to encourage the students to do a minimum of two MOOCs, one each in the discipline and open elective during third year. Also another MOOC in final year can be taken under open elective category.</li> <li>2. The respective departments shall give a list of standard MOOCs providers including SWAYAM whose credentials are endorsed by the HoD.</li> <li>3. In general, MOOCs providers provide the result in percentage. In such case, the departments shall follow</li> </ol>	

		<p>the grade table given below, while allotting letter grade for the MOOCs. If MOOCs provider declares a student as passed, the institution shall consider the same. In case of any deviation in the above clause, the committee appointed by the Principal shall take a decision for converting MOOC results in to the relevant grade points. The Credits for MOOC(s) shall be transferred same as given for the respective discipline or open electives.</p> <ol style="list-style-type: none"> <li>4. Each department shall appoint Coordinators/Mentors and allot the students to them who shall be responsible to guide students in selecting online courses and provide guidance for the registration, progress and completion of the same.</li> <li>5. In case a student fails to complete the MOOCs he/she shall re-register for the same with any of the providers from the list provided by the department. Still if a student fails to clear the course/s, the Institution shall evaluate for the said course/s for 60/70 marks (scaled up to 100 marks), as per the MOOCs syllabi during the final year.</li> <li>6. In case a provider fails to offer a MOOC in any semester, then in all such cases the college shall conduct the end semester examinations for the same as per the college end semester examination pattern. The syllabi for the supplementary examinations shall be same as that of MOOCs. There shall be no internal assessment however the marks obtained out of 60/70 shall be scaled upto 100 marks and the respective letter grade shall be allotted.</li> <li>7. In case any provider discontinues to offer the course, Institution shall allow the student to opt for any other provider from the list provided by the department, for completion of the same course.</li> <li>8. The details of MOOC(s) shall be displayed in Grade card of a student, provided he/she submits the proof of completion of it or them to the department concerned though the Coordinator/Mentor, before the end semester examination of the particular semester.</li> </ol>	

12.17	<b>Grade classification and point system</b>	
-------	--	--

**Table 41: Award of Grades**

<b>Letter Grade</b>	<b>Grade points</b>	<b>Percentage/Absolute Marks</b>
O (Outstanding)	10	90 - 100
A+ (Excellent)	9	80 - 89
A (Very Good)	8	70 - 79
B + (Good)	7	60 - 69
B (Above Average)	6	50 - 59
C (Average)	5	45 - 49
P (Pass)	4	40 - 44
F (Fail)	0	< 40
Ab (Absent)	0	

12.18	<b>Grading System</b>	
	All the final Internal and End Semester examination marks are uploaded into an automation software (GEMS). Based on the below grading system, the letter grade, grade point, SGPA & CGPA are calculated.	
12.19	<b>UG Programs: Conversion of Marks to Grade Point &amp; Letter Grade</b>	

**Table 42: Conversion of Point Grades to letter Grades: UG – Regulation 2020**

<b>Absolute Marks</b>	<b>Grade Points</b>	<b>Letter Grade</b>	<b>Description</b>
90 - 100	10	O	Outstanding
80 - 89	9	A+	Excellent
70 - 79	8	A	Very Good
60 - 69	7	B+	Good
50 - 59	6	B	Above Average
45 - 49	5	C	Average
40 - 44	4	P	Pass
< 40	0	F	Fail
--	0	Ab	Absent

**Table 43: Conversion of Point Grades to letter Grades: UG – Regulation 2023**

<b>Absolute Marks</b>	<b>Grade Points</b>	<b>Letter Grade</b>	<b>Description</b>
90 - 100	10	S	Superior
80 - 89	9	A	Excellent
70 - 79	8	B	Very Good
60 - 69	7	C	Good
50 - 59	6	D	Average
40 - 49	5	E	Pass
< 40	0	F	Fail
Absent	0	Ab	Absent

**Table 44: Conversion of Point Grades to letter Grades: PG**

<b>Absolute Marks</b>	<b>Grade Points</b>	<b>Letter Grade</b>	<b>Description</b>
90 – 100	10	O	Outstanding
80 – 89	9	A+	Excellent
70 – 79	8	A	Very Good
65 – 69	7	B+	Good
60 – 64	6.5	B	Above Average
55 – 59	6	C	Average



50 – 54	5.5	P	Pass
< 50	0	F	Fail
---	0	Ab	Absent

12.20	<b>Computation of SGPA and CGPA</b>	
	A <b>Semester Grade Point Average (SGPA)</b> will be computed for each semester.	
12.21	<b>The SGPA Calculation</b>	
	$SGPA = \frac{\sum_{i=1}^m c_i g_i}{\sum_{i=1}^m c_i}$	
	<p>Where ‘<b>n</b>’ is the number of subjects <b>registered</b> for that semester ‘<math>c_i</math>’ is the number of Credits allotted to a particular subject, and ‘<math>g_i</math>’ is the grade points carried by the letter corresponding to the grade awarded to the student for the subject.</p> <p>SGPA will be rounded off to the second place of decimal and recorded as such. The SGPA would indicate the performance of the student in the semester to which it refers.</p>	
12.22	<b>Cumulative Grade Point Average (CGPA) Calculation</b>	
	$CGPA = \frac{\sum_{i=1}^m c_i g_i}{\sum_{i=1}^m c_i}$	
	Where ‘ <b>m</b> ’ is the total number of subjects the student has <b>registered</b> from the first semester onwards up to and including the semester <b>S</b>	

	<p>'<math>c_i</math>' is the number of Credits allotted to a particular subject '<math>s_i</math>' and '<math>g_i</math>' is the grade-point carried by the letter corresponding to the grade awarded to the student for the subject '<math>s_i</math>'.</p> <p>CGPA will be rounded off to the second place of decimal and recorded as such.</p> <p>The CGPA would indicate the cumulative performance of the student from the first semester up to the end of the semester to which it refers.</p> <p>When a student gets the grade 'F' in any subject during a semester, the SGPA and the CGPA from that semester onwards will be tentatively calculated, taking only 'zero point' for each such 'F' grade.</p> <p>After the 'F' grade(s) has/have been substituted by better grades during a subsequent semester, the SGPA and the CGPA of all the semesters, starting from the earliest semester in which the 'F' grade has been updated, will be recomputed and recorded to take this change of grade into account.</p>	
<b>12.23</b>	<b>Award of Class UG Programs</b>	
	The following Class is awarded to the student on successful completion of the B.Tech. Degree. Programme depending upon the CGPA obtained;	

**Table 45: Award of Class for UG programs under R2020 Regulations**

<b>Class</b>	<b>CGPA</b>	Based on the aggregate of grades secured from the total Credits.
First Class with Distinction	$\geq 7.5$ & $\leq 10.0$	
First Class	$\geq 6.5$ & $< 7.5$	
Second Class	$\geq 5.5$ & $< 6.5$	
Pass Class	$\geq 4.0$ & $< 5.5$	

**Table 46: Award of Class for UG programs under R2023 Regulations**

<b>Class</b>	<b>CGPA</b>	Based on the aggregate of grades secured from the total
First Class with Distinction	$\geq 7.5$ & $\leq 10.0$	
First Class	$\geq 6.5$ & $< 7.5$	
Second Class	$\geq 5.5$ & $< 6.5$	

Pass Class	$\geq 5.0$ & $< 5.5$	Credits.
------------	----------------------	----------

**Table 47: Award of Class for PG programs**

Class	CGPA	Based on the aggregate of grades secured from the total Credits.
First Class with Distinction	$\geq 7.5$ & $\leq 10.0$	
First Class	$\geq 6.5$ & $< 7.5$	
Second Class	$\geq 5.5$ & $< 6.5$	

12.24	Declaration of Results:
	<ol style="list-style-type: none"> <li>1. The results shall be declared within a period of 20 to 30 days from the date of completion of the examinations.</li> <li>2. The consolidated marks, for each theory course shall be entered into a computer as per the code number in the answer script in the prescribed format.</li> <li>3. The computer program assigns these marks to the appropriate Hall Ticket number of the student after decoding.</li> <li>4. The consolidated marks for each practical course are entered into computer as per the Hall Ticket number in the prescribed format.</li> <li>5. The Internal marks submitted by the HoD for each course shall be entered into computer as per the HT number.</li> <li>6. Confidential teams shall verify the marks entered for correctness.</li> <li>7. If any mistakes are found, they shall be corrected and verified again.</li> <li>8. Moderation of results, if any, shall be implemented as per the guidelines approved by Academic Council before declaring the final result.</li> <li>9. The final marks are converted into respective grades.</li> <li>10. The results of successful candidates at the end of each semester shall be declared in terms of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).</li> <li>11. The results shall be declared after approval by the Results Declaration Committee, comprising Principal as Chairperson, Affiliating University nominee, Dean / Vice Principals academics, Controller of</li> </ol>

		Examinations and Concerned Bos Chairman or HOD as members	
<b>13.0</b>		<b>Use of ICT in Examination Section</b>	
		<p>An ERP Tool named GEMS has been implemented in the examination section on a dedicated server. The Features are</p> <ol style="list-style-type: none"> <li>1. Bulk uploading of Continuous Assessment and End Semester Examination marks.</li> <li>2. While uploading the marks, in case of any discrepancies in the Marks, Roll Numbers, they are rectified.</li> <li>3. Generation of Letter Grades and Grade Points as per the Academic Regulations.</li> <li>4. Calculation of Semester Grade Point Average &amp; Cumulative Grade Point Average.</li> <li>5. Final Results Publishing - Student wise and Course wise Publishing.</li> <li>6. Result Analysis.</li> <li>7. Semester Grade Card Generation.</li> <li>8. Generation of Provisional Certificates.</li> <li>9. Generation of Consolidated Memorandum of Marks Certificates.</li> <li>10. Various Miscellaneous reports Generation.</li> </ol>	
<b>14.0</b>		<b>Re-Totaling / Re-Counting</b>	
		<ol style="list-style-type: none"> <li>1. The facility of re-totaling of the answer scripts shall be followed only for theory examinations.</li> <li>2. Students can apply for re-totaling of marks for any number of papers of theory/practical examination.</li> <li>3. Candidate shall submit an application for re-totaling with the prescribed fee within the specified date as per the notification.</li> <li>4. Candidate shall be awarded corrected grade after the re-totaling. However, if the candidate secure lesser grade than the awarded grade, the original grade shall be retained.</li> </ol>	
	<b>14.1</b>	<b>Post-Examination Moderation</b>	
		After conduction of End semester examination, if any discrepancies like out of syllabus, mistakes in given questions are represented by the concerned HoD within three days, a committee appointed by the Principal, shall look into the issue.	

	<b>14.2</b>	<b>Moderation of Marks</b>	
		Moderation marks shall be applicable only for Theory Subjects in B.Tech programs from the Academic Year 2021-22 admitted batch onwards.	
	<b>14.3</b>	<b>General Moderation</b>	
		<ol style="list-style-type: none"> <li>1. General Moderation shall be applicable for both Regular and Supplementary Examinations.</li> <li>2. General Moderation shall not be applicable to any subject where the internal marks scored are below 40% of maximum Internal marks.</li> <li>3. The addition of marks up to 1% of the total maximum marks of all the theory subjects in that Year or Semester as moderation to the external examination marks of any subject in which the student got failed, is permitted provided that the addition of marks as stipulated will result in the student passing that subject as per passing criteria of end semester examinations.</li> <li>4. E.g.: Assume there are 6 theory subjects in a semester of 100 maximum marks each.</li> <li>5. Total marks of all 6 subjects = <math>6 \times 100 = 600</math> marks</li> <li>6. Maximum moderation marks = 1% of 600 = 6 marks.</li> <li>7. Maximum moderation marks can be distributed to one/more subjects, in which the candidate may pass.</li> </ol>	
	<b>14.4</b>	<b>Special Moderation</b>	
		<ol style="list-style-type: none"> <li>1. Special moderation to the extent of 1.5% of the total maximum marks of all the theory subjects in that Year or Semester may be added to the external marks of the failed subject, if the pass percentage in that subject is less than 40% after the implementation of the general moderation, provided the addition of marks as stipulated will result in the student passing that subject. Special moderation is permitted only when the Post Special Moderation pass percentage of that particular subject becomes greater than or equal to 40%.</li> <li>2. This special moderation shall be applied only based on the recommendation of the moderation committee</li> </ol>	

		<p>after approval of University nominee for results declaration. This special moderation is applicable only for regular examinations.</p> <p>3. <b>Case I:</b> If a candidate had availed general moderation, then special moderation marks shall be as given below:</p> <p>4. Special Moderation Marks for a Student = 1.5% of the total maximum marks of all the theory subjects in that Year or Semester minus the Marks availed in general moderation.</p> <p>5. <b>Case II:</b> If a candidate had not availed General Moderation, then the Special Moderation marks shall be 1.5 % of the total maximum marks of all Theory subjects.</p>	
	<b>14.5</b>	<b>Grade Card / PC / CMG</b>	
		<p>1. The CoE shall make necessary arrangements for printing and distribution of grade cards to the students.</p> <p>2. Marks cards will be printed, sorted (Course-wise, semester-wise).</p> <p>3. The institute shall issue 'Provisional Certificate" to those who have completed all the requirements for award of degree as per autonomy rules of this institute. This shall be valid till the convocation.</p>	
	<b>14.6</b>	<b>Award of Ranks</b>	
		<p>1. Ranks are awarded based on the CGPA secured by the candidates for all the courses from first to final year, provided the candidate:</p> <p>2. Has passed all the courses in first attempt only.</p> <p>3. Has not discontinued the program for any period during the course of study.</p> <p>4. Has not been awarded any punishment for being involved in malpractice or indiscipline during the course of study in the Institute.</p> <p>5. In case, more than one student secures same CGPA, then first rank shall be awarded based on:</p> <p>6. Student who secured more number of letter grade "O", "A+" and so on in decrementing order of grades.</p> <p>7. After the applying the above clause, if still there is tie among the students, then all such students shall be</p>	

		awarded the same rank. 8. Certificate and medal/award shall be given to such students as an appreciation for their achievement.	
<b>15.0</b>		<b>Faculty Recruitment Strategy</b>	
		<p>Faculty members play a vital role in the development and growth of any education institution. In this direction MITS will ensure that the count of faculty members in terms of the number, quality, and competency will be considered as top priority. The Institute will ensure that all the schools under the University will possess adequate number of faculty members to pursue teaching and research.</p> <p>The institute will recruit faculty members in two track namely Academic Track and Research Track with well-defined Key Performance Indicators for each track. The University shall take all essential steps to maintain the Faculty: Student ratio as 1: 15. The institute shall adopt strategies to attract talented professionals who have completed their Ph.D. from reputed and prestigious foreign universities / national universities and possess multidisciplinary skill set.</p> <p>The institute will focus on recruiting diverse faculty members from across states in India / abroad. Hiring such talented and highly qualified faculty members would be beneficial to attract young and energetic research scholars to pursue their Doctoral Program and thereby enhance the research output of the University.</p> <p>The institute also has plans to engage industry / University professionals from reputed organizations as adjunct faculty members. By adopting these strategies, the University will have abundant faculty manpower both in terms of gender and geographic diversity.</p> <p>In future the institute will recruit experienced Professors / Associate Professors who possess International expertise which would in turn foster more interaction between the stake holders and the eminent scientist and researchers of international calibre.</p>	

		<p>The institute also has plans to establish several Centres of Excellence in Emerging Areas of Science / Engineering to attract talent possessing International Experience. Further institute plans to interact with its alumni network who possess specialized skill sets to be engaged as Adjunct / Visiting faculty members.</p> <p>Currently, MITS has 374 faculty members as per the list attached in <b>Annexure 74</b></p>	
	<b>15.1</b>	<b>Staff Recruitment Policy</b>	
		<ol style="list-style-type: none"> <li>1. A well-staffed and experienced human resources department exists in the institution to plan, organize and manage matters related to recruitment, selection, promotion and reward of the faculty members and staff.</li> <li>2. On receiving the list of vacancy positions from heads of various departments and approved by the BoG for recruitment are notified in print and electronic media.</li> <li>3. Screening test is conducted for the junior cadre posts and eligible candidates are called for interview. Profiles are shortlisted for the senior faculty members based on their experience and achievements.</li> <li>4. Well-constituted selection committee conducts the interviews.</li> <li>5. Candidates with qualification as per AICTE norms are selected based on the recommendations of interview committee comprising internal and external experts.</li> <li>6. The institution, in general, considers the recruitment of well-qualified faculty with futuristic growth and development in the mind, rather than merely to meet the basic regulatory needs.</li> </ol>	
	<b>15.2</b>	<b>Pay Structure:</b>	
		We have implemented 7 <sup>th</sup> Pay scale for our faculty members.	



**Table 48: Implementation of 7<sup>th</sup> Pay Scales**

<b>Cadre</b>	<b>6<sup>th</sup> Pay Scale (in Rs.)</b>	<b>7<sup>th</sup> Pay Scale (in Rs.)</b>
Asst. Professor	15600 - 39100 (AGP 6000)	57700 - 182400
	15600 - 39100 (AGP 7000)	68900 - 205500
	15600 - 39100 (AGP 8000)	79800 - 211500
Assoc. Professor	37400 - 67000 (AGP 9000)	131400 - 217100
Professor	37400 - 67000 (AGP 10000)	144200 - 218200

	<b>15.3</b>	<b>Faculty Development Initiatives</b>	
		<p>MITS gives paramount importance to Faculty Development Initiatives. In this direction Institution as well as Departments organizes various Faculty Development Programs, Workshops and eminent Guest Lecture Series. During the last five years 46 Faculty Development Programs have been organized in the campus.</p> <p>Institute also encourages Faculty Members to attend Faculty Development Programs being organized by reputed Institutes like NITTTR, IITs, NITs, Central Universities, etc. Our faculty members have attended 2127 programs during the last five years.</p>	
	<b>15.4</b>	<b>Programs organized</b>	

**Table 49: Faculty Development Programs organized**

S. No	Programs organized	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Total
1	Faculty Development Program	2	9	10	9	16	46
2	Workshop	39	22	19	26	25	131
3	Guest Lecture/Talk	45	18	22	45	58	188
4	Alumni Interaction/Talk	25	15	13	22	20	95

**Table 50: Program attended by the Faculty Members**

S. No	Program attended by the faculty members	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Total
1	Faculty Development Program	147	282	471	431	796	2127
2	Workshop	157	69	132	63	129	550
3	National and International Conference	41	38	27	46	99	251
4	Seminars	8	104	137	40	53	342
5	Guest Lecture/Talk	12	15	65	41	42	175

15.5	<b>Organizing of Conferences and Seminars</b>	
	<p>For the benefit of faculty members, MITS gives due importance to organize National and International Conferences to create a platform to exchange the recent developments in the relevant fields amongst the faculty members.</p> <p>In the year 2021-22, <b>One</b> International Conference has been organized. Similarly, in 2022-23, <b>two</b> International Conferences and <b>One</b> National Conference have been organized. Also, 120 Seminars have been organized in the campus during the last 5 years. The brochures of the 3</p>	

	International conferences and 1 national conference is attached in <b>Annexure 75</b> .	

**Table 51: Conferences Seminars Organized**

Sl. No	Programs Organised	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Total
1	National and International Conferences	0	0	0	1	3	4
2	Seminars	13	16	38	35	18	120

<b>16.0</b>	<b>Welfare Measures</b>	
	<b>16.1 Hospitalization Benefits</b>	
	<p>1. Contributory Cashless Medical Health Insurance Scheme limited to Rs. 5 Lakhs on Family floater scheme</p> <p><u>Accidental Insurance coverage of Rs. 1 Lakh is extended to all staff.</u></p>	
	<b>16.2 Leave Benefits</b>	
	<p>1. Casual leave for 15 days in a year</p> <p>2. Vacation of 2 weeks.</p> <p>3. Marriage Leave of 1 week</p> <p>4. Academic Leave of 6 days</p> <p>5. Maternity Leave</p> <p>6. Monthly two Saturdays are holidays.</p>	
	<b>16.3 Other Welfare Benefits</b>	
	<p>1. Fee Concession for Employees' children.</p> <p>2. PF and ESI as per Act.</p> <p>3. Flexi timings for all the staff members.</p>	
	<b>16.4 Professional Enhancement Benefits</b>	
	<p>1. Nomination for National/ International Seminars/Conferences/Events, Etc.</p> <p>2. Incentives for Research Publications/ Projects/ Patents/ Consultancy and seed money for aspiring Researchers.</p>	

<b>17.0</b>		<b>Collaboration with Industry / Other Institutions</b>	
		MITS is actively collaborating with Industry / Academic Partners with the prime focus towards enriching the Academic Programs that facilitate the learners to equip themselves with the required skill sets necessary to meet current industrial demands. The academic programs offered serve as the cornerstone of the institute's commitment towards excellence. Designed with meticulous planning, our diverse range of programs reflects the institutes dedication towards offering comprehensive education that is essential to instil critical thinking, creativity, problem-solving skills and mould the students to meet the challenges and complexities of the modern world.	
<b>17.1</b>		<b>Collaboration with Industry</b>	
		<p>Industry Institute Interaction cell (IIC) of MITS has signed several MoU's with Industries for internships, projects, research and industry visits. This bridges the gap between the theoretical and practical aspects of the curriculum as well as academic and corporate world.</p> <p>The IIC engages industry experts for conducting workshops, seminars. Practicing managers are involved through Industry Alumni Advisory Board in the design of curriculum. Industrial collaborations also help the department in joint research programs and field studies by faculty and students based on industry's requirement. Industry collaborations expose students to practical challenges, cutting-edge technologies, and industry best practices.</p>	
<b>17.2</b>		<b>Collaboration with Other Institutions</b>	
		The institute has signed many MoU's with reputed Universities abroad through the International Relations Cell. This cell identifies advanced learners and promote such students to take up internships abroad in countries like Japan, Korea, Germany, Russia, Finland, Singapore and Thailand etc. The Institute actively supports the global immersion program towards helping students to get international exposure through internships and higher studies. The global immersion program has grown over the	

	<p>years and the number of beneficiaries has increased, making it one of the best practices of the institute. The objectives of fostering global immersion through International Internships are</p> <ol style="list-style-type: none"> <li>1. To provide qualitative challenging opportunities for the high achievers</li> <li>2. To achieve a working knowledge of the practices through direct exposure</li> <li>3. To promote intercultural awareness and communication</li> <li>4. To gain opportunities to study and travel abroad, and become an empowered global citizen.</li> <li>5. To engage themselves in better research labs and to pursue higher goals</li> <li>6. To explore the value of different research models as benchmarks</li> </ol> <p>Further the Institute has also collaborated with leading National Academic Institutions like IIT Hyderabad, BITS Hyderabad, NIT Trichy and NITTTR Chennai for institutional mentoring towards enhancing the quality of Technical Education. MoU with NIT Trichy, NITTTR Chennai is placed as an <b>Annexure 76</b>.</p>	

**Table 52: National Collaborations**

S. No	Name of the Industry/Institute/Organization	Title/Purpose	Outcomes
1	NITTTR, Chennai, (Ministry of Education, Government of India)	Internship, Training, Project	Total 30 students from the departments of MITS collage have completed internship.
2	Vidgan Private Limited, office at No 5/1170 Vidgan Building, Krishna Pillai Street, Vedanayaka Shastri Nagar, Sipcot, Ranipet District, Tamil Nadu – 632403, India	Internship, Training, Project, Placement	Placement & Internship
3	MCore Tech Academy Pvt. Ltd. (MCoreta), registered office at R.No-3, #10/107, Chenna Nayakana Palya, Near Subramanya Temple, Nagasandra Post, Bangalore - 560073	Internship, Training, Project, Placement	Placement & Internship
4	Vernacular Consultancy Services Pvt Ltd (Vercos)	Skill Development and Internship, Projects & Expert Lecture	Internship
5	Fopple Drone Tech PVT..LTD.,	Internship, Training, Project, Placement	Placement, Internship & project
6	SandLogic, Bangalore	Industrial Projects/Internships	Engaging students in projects related to emerging technologies Technical Discussion
7	Ethnus Consultancy Services Pvt. Ltd, Bangalore	Upskilling/Training/Internship	As part of a partnership with the NASSCOM organization, Coursera provided to MITS students free of charge access to 3000 certification courses through its online platform, enabling students to take the courses for free.

8	Vernacular Consultancy Services Pvt Ltd (Vercos)	Skill Development and Internship, Projects & Expert Lecture	Guest Lecture on "Motivational Story by a Startup Founder) 2 students from Civil department has completed their 6 month internship.
9	NDS Eco. Motors Pvt. Ltd. Bangalore	Internship and Placement	Internship-cum-placement opportunities for EEE (15) and ME (10) students in their final year of study/EEE students appeared for interview and only 1 joined from 2022 batch
10	Madanapalle Municipality, Chittoor District, Andhra Pradesh	Quality Control Assurance Contract	The Civil Engineering department was awarded the contract for quality assurance services

**Table 53: Number of Collaborations Year wise**

2018-19	2019-20	2020-21	2021-22	2022-23	Total
58	60	27	39	97	<b>281</b>
1069	465	549	547	2683	<b>5313</b>
34	294	227	70	536	<b>1161</b>
<b>1161</b>	<b>819</b>	<b>803</b>	<b>656</b>	<b>3316</b>	<b>6755</b>

<b>18.0</b>	<b>International Collaborations</b>	
<b>18.1</b>	<b>Asia University, Taiwan</b>	
	<p>MITS has signed a memorandum of agreement with ASIA University, Taiwan under which MITS shall admit students to its M.Tech. program in VLSI Design beginning from the academic year 2024-26. Such students shall complete the requisite course and lab work during the 1<sup>st</sup> and 2<sup>nd</sup> semester of the programme in MITS. On completion of their first year, students shall be visiting AU for their 3<sup>rd</sup> &amp; 4<sup>th</sup> semester.</p> <p>The 3<sup>rd</sup> semester shall comprise course-work as jointly prescribed by AU &amp; MITS to be delivered on a full-time basis by AU faculty at their University campus. The 3<sup>rd</sup> semester shall also include In-school project mentored by AU faculty using the advanced facilities in the AU departments related to VLSI Design &amp; Applications. The 4<sup>th</sup> semester may be a 20 to 22-week Industry Internship to be arranged by AU for the hands- on experience &amp; learning at the semiconductor industry facilities. On successful completion of the course work and internship at AU, the AU credits earned shall be transferred to them to graduate with a M. Tech degree in VLSI Design of MITS/JNTUA.</p> <p>The following are the major facilities with regard to the electronics design and manufacturing focused curriculum of the VLSI degree programme that AU shall provide access during their in-school project to the students from MITS:</p>	

Semiconductor thin films Laboratory

**Spin coater:** the deposition of thin films is carried out by spin coating at a high spinning speed.

**Controlled-atmosphere furnace:** the semiconductor films are annealed in a tubular atmosphere furnace filled with inert gas, and the partial pressure of oxygen in the tube is controllable.

**Current-voltage (IV) measurement system:** the instrument, which can be used on wafer and semiconductor thin film, serves as an effective identify tool.

**Hall effect measurements instrument:** this system can identify the electrical features of resistivity, carrier mobility, concentration, and Hall coefficient. The measured parameter of magnetic field is 0.6T at room temperature.

Hewlett Packard (Hp) - 4156A precision semiconductor parameter analyzer

Bausch & lomb, MicroZoom2, High performance microscope (Model:61 00)

The following are the potential industry partners that AU shall coordinate with and ensure that the 20-24-week internship is arranged for the visiting students of MITS

1. Everlight Electronics Corporation, Taiwan
2. Vanguard Semiconductor, Taiwan
3. Nuvoton Technology Corporation, Taiwan
4. Channel Well Technologies, Taiwan
5. Taiwan Semiconductor Manufacturing Company, Taiwan
6. Micron Memory Taiwan Co., Taiwan
7. Macronix International Co., Taiwan
8. United Microelectronics Corp., Taiwan
9. Technology Bridge Corporation, Taiwan
10. Wistron, Taiwan

The MoA between MITS and Asia University Taiwan is attached in **Annexure 77**.

	<b>18.2</b>	<b>BRNO University of Technology, Czech Republic</b>	
		<p>MITS has signed a memorandum of understanding with BRNO University of Technology, Czech Republic. Under this MoU, first semester will be studied in MITS and balance three semester will be completed in BRNO University. The success of students in the Program will be assessed annually by both institutions. The parties expect a high level of student success and will monitor this closely to ensure that student schedules and support structures facilitate that outcome.</p> <p>To complete the degree requirements for the "Inzenyr" (Ing.) in Microelectronics at BUT, the students are required to complete at least three semesters of studies at BUT, on a full-time status. In a two-year Master study, the student must earn at least 120 credits in the specified credit composition:</p> <p>63 credits in compulsory courses, 46 credits in compulsory elective (PV) courses, 11 credits in elective courses.</p> <p>During the 1<sup>st</sup> Semester of study in MITS, credits have to be obtained from such courses which have been articulated with BRNO University of Technology Program. The MoU and Articulation Agreement between MITS and BRNO University of Technology is attached in <b>Annexure 78</b>. Since, we did not get approval from AICTE, implementation of this MoU has been kept in abeyance.</p>	
	<b>19.0</b>	<b>International MoU's Outcome</b>	

**Table 54: Outcomes for International MOU's**

Academic Year	University/Company -Country	MoU/ Professor	Internship	PG Admission
2017-18	Asia University	MoU	5	5
	Jenmars Technical Services LLC - Dubai	Professor	2	
2018-19	Asia University	MoU	2	5
	Providence Univesity	MoU	15	
	NCTU-Taiwan	Prof	2	
	NTU- Singapore	India Connect	1	2



	Kalshrue Institute of Technology- Gemany	Prof	2	
	Iwate Prefectural University- Japan	MoU	2	
	Rise & Shine Group of Companies- Dubai	Prof	5	
	National Chung Cheng University- Taiwan	Prof		3
2019-20	University of Eastern Finland- Finland	Prof	3	
	National Chung Cheng Univesity	Prof	1	1
	Innopolis University- Russia	MoU	7	
	NCTU- Taiwan	Prof	2	2
	Asia University- Taiwan	MoU	3	2
	Iwate Prefectural University	MoU		2
2020-21	Asia University-Taiwan	MoU	virtual -181	4
2021-22	Innopolis University- Russia	MoU	virtual-2	
	NTU- Singapore	India Connect	1	
	Asia University- Taiwan	MoU	virtual-140	
2022-23	Asia University- Taiwan	MoU	Virtual-130	

	<b>19.1</b>	Various International MoUs signed between MITS and other International Universities are attached in <b>Annexure 79.</b>	
<b>20.0</b>		<b>Consultancy</b>	
		<p>The institute encourages consultancy assignments from industries with the objective that faculty members share their expertise with the external world. If the faculty and staff contribute their knowledge, time and skill for the Consultancy Projects without utilising the resources of the Institute (like laboratory, equipment's, computer, software etc.) they will get an incentive of 70% of the net amount earned through the consultancy work.</p> <p>If the resources of the Institute (like laboratory, equipment's, computer, software etc.) and other facilities have been utilized for the execution of Consultancy projects, the faculty/staff involved in such projects will get 50% of the net amount earned through the consultancy work. The details of Consultancy assignments executed by MITS faculty members from 1st April 2018 - 31 Mar 2023 is attached in <b>Annexure 80.</b></p>	

	<b>20.1</b>	<b>Consolidated year wise details of consultancy projects executed in the last 5 years:</b>	
--	-------------	---	--

**Table 55: Consultancy Revenue**

S.No.	Academic Year	Consultancy Amount (Rs.)
1	2018-19	₹ 19,56,000.00
2	2019-20	₹ 17,58,370.00
3	2020-21	₹ 16,17,953.00
4	2021-22	₹ 8,40,391.00
5	2022-23	₹ 13,29,678.00
<b>TOTAL:</b>		<b>₹ 75,02,392.00</b>

<b>21.0</b>		<b>Management Development Programs</b>	
	<b>21.1</b>	MITS encourages the faculty members to organise Management Development Programs (MDPs) with the intent to strengthen the Institute-Industry connect. MITS conducted MDPs on diverse subjects and trained a good number of professionals, executives and administrators in pre-COVID years. The well customized MDPs helped various participants to escalate their leadership quality by developing new competencies, skills and updating their existing knowledge.	
	<b>21.2</b>	<b>Entrepreneurship Initiatives</b>	
		<p>Entrepreneurship Development Cell was established in MITS in 2010. At institution level, there is a Coordinator, supported by Department-wise Faculty Coordinators.</p> <p>The focus of the Entrepreneurship Development Cell is:</p> <ol style="list-style-type: none"> <li>1. To create and foster entrepreneurial culture among students by identifying, training and motivating students to become entrepreneurs.</li> <li>2. To create greater awareness of opportunities and benefits of entrepreneurship among the students, to make them realize their dream business through innovative products and to develop greater</li> </ol>	

		<p>entrepreneurial culture within the institution.</p> <p>3. To create greater number of sustainable startup business with potential for further growth.</p> <p>4. To create awareness among students on industrial business and on the availability of financial assistance enabling them to start their own industrial ventures.</p> <p>The list of activities organized by the Entrepreneurship Development Cell is given in the <b>Annexure 81</b>.</p>	
<b>22.0</b>		<b>Concluding Remarks</b>	
		<p>In conclusion, the inception of MITS Deemed to be University is not merely the creation of another academic institution but the birth of a transformative force poised to redefine the very essence of higher education. This project report serves as both a culmination of exhaustive planning and a springboard for the journey that lies ahead.</p> <p>The meticulous research, strategic foresight, and unwavering dedication encapsulated within this document pave the way for the realization of a vision—one that aspires to transcend boundaries, foster innovation, and instill a passion for lifelong learning.</p> <p>MITS Deemed to be University aspires to be a dynamic ecosystem where curiosity thrives, ideas flourish, and boundaries between disciplines dissolve. It is a testament to the collective efforts of visionaries, educators, stakeholders, and the community at large who believe in the transformative power of education.</p> <p>As this report draws to a close, the journey toward the establishment of MITS Deemed to be University embarks on its next phase—one characterized by implementation, adaptation, and continual evolution. The commitment to excellence, inclusivity, and societal impact will remain the guiding principles as the university takes shape and makes its mark on the educational landscape.</p> <p>The success of MITS Deemed to be University will not solely be measured by its infrastructure or academic programs but by the individuals whose lives it touches, the</p>	

		<p>innovations it fosters, and the positive influence it exerts on the world. It is a commitment to nurturing not just intellects but compassionate, ethical, and resilient global citizens equipped to address the challenges of an ever-evolving society.</p> <p>In essence, this report encapsulates the foundation upon which MITS Deemed to be University stands—a foundation built on knowledge, innovation, and a relentless pursuit of excellence. As the university prepares to open its doors, it carries with it the aspirations of a brighter future, where education is not just a means to an end but a lifelong journey of discovery and empowerment.</p> <p>With a shared vision and unwavering determination, MITS Deemed to be University is poised to embark on a transformative voyage, leaving an indelible mark on the educational landscape and shaping the leaders, innovators, and visionaries of tomorrow.</p>	

<b>23.0</b>	<b>List of Tables</b>	<b>Page No</b>
<b>1</b>	Table 4 (Progress in Admissions, Academics, Operations, and others (Year 1 – 5))	<b>19</b>
<b>2</b>	Phase II Admissions, Academics, Operations, Others	<b>20</b>
<b>3</b>	New Academic Programmes over the next five years	<b>22</b>
<b>4</b>	Additional Intake for Existing Programs	<b>23</b>
<b>5</b>	Combined Intake (New and Existing)	<b>23</b>
<b>6</b>	KK and NPN Blocks: New Construction	<b>26</b>
<b>7</b>	Summary of KK and NPN Blocks	<b>27</b>
<b>8</b>	Cost estimation for infrastructure, facilities, and development	<b>27</b>
<b>9</b>	Program wise Intake and Fee:2024-25	<b>27</b>
<b>10</b>	Program wise Intake and Fee:2025-26	<b>28</b>
<b>11</b>	Program wise Intake and Fee:2026-27	<b>29</b>
<b>12</b>	Program wise Intake and Fee:2027-28	<b>30</b>
<b>13</b>	Program wise Intake and Fee:2028-29	<b>31</b>
<b>14</b>	Revenue model (tuition fees, grants, donations, etc.)	<b>33</b>
<b>15</b>	Fund Allocation for Welfare Measures	<b>36</b>
<b>16</b>	Funding Sources	<b>37</b>
<b>17</b>	Central Universities nearby MITS	<b>39</b>
<b>18</b>	Centrally Funded Technical Institutions (CFTI) nearby MITS	<b>39</b>
<b>19</b>	Private Universities nearby MITS	<b>39</b>
<b>20</b>	Infrastructure Required: Phase I	<b>53</b>
<b>21</b>	Infrastructure Required: Phase II	<b>53</b>
<b>22</b>	Additional Infrastructure Required for Expansion	<b>54</b>
<b>23</b>	Additional Infrastructure Required for Expansion (Under construction / To be constructed)	<b>54</b>
<b>24</b>	Infrastructure Estimates	<b>55</b>
<b>25</b>	Governing Body Members (GBM)	<b>93</b>
<b>26</b>	Members of the Academic Council	<b>95</b>
<b>27</b>	Members of the Finance Committee	<b>97</b>
<b>28</b>	Research Advisory Committee	<b>99</b>
<b>29</b>	Members of the Sexual harassment Cell (POSHC)	<b>108</b>
<b>30</b>	Committee for the welfare of differently abled persons	<b>109</b>
<b>31</b>	Summary of Land Parcel Details	<b>113</b>

<b>32</b>	Existing Infrastructure Details	<b>114</b>
<b>33</b>	Existing Building Details	<b>122</b>
<b>34</b>	Current Revenue Model	<b>123</b>
<b>35</b>	Revenue Heads	<b>123</b>
<b>36</b>	Expenditure Heads	<b>124</b>
<b>37</b>	Current Programs	<b>127</b>
<b>38</b>	Result Analysis of Ethics in Engineering Practice	<b>129</b>
<b>39</b>	Details of NPTEL: 2018 to 2023	<b>132</b>
<b>40</b>	Question Paper pattern	<b>153</b>
<b>41</b>	Award of Grades	<b>159</b>
<b>42</b>	Conversion of Point Grades to letter Grades: UG – Regulation 2020	<b>160</b>
<b>43</b>	Conversion of Point Grades to letter Grades: UG – Regulation 2023	<b>160</b>
<b>44</b>	Conversion of Point Grades to letter Grades: PG	<b>160</b>
<b>45</b>	Award of Class for UG programs under R2020 Regulations	<b>162</b>
<b>46</b>	Award of Class for UG programs under R2023 Regulations	<b>162</b>
<b>47</b>	Award of Class for PG programs	<b>163</b>
<b>48</b>	Implementation of 7th Pay Scales	<b>169</b>
<b>49</b>	Faculty Development Programs Organised	<b>170</b>
<b>50</b>	Program attended by the Faculty Members	<b>170</b>
<b>51</b>	Conferences Seminars Organized	<b>171</b>
<b>52</b>	National Collaborations	<b>173</b>
<b>53</b>	Number of Collaborations Year wise	<b>174</b>
<b>54</b>	Outcomes for International MOU's	<b>176</b>
<b>55</b>	Consultancy Revenue	<b>178</b>

<b>24.0</b>	<b>List of Figures</b>	
<b>Sl. No</b>	<b>Figures</b>	<b>Page Number</b>
<b>1</b>	Overview of the MITS Deemed to be University Project	18
<b>2</b>	Organization Structure	91
<b>3</b>	Internal Quality Assurance Cell: A diagrammatic Representation	143
<b>4</b>	Flow chart of Curriculum Development	147

<b>25.0</b>	<b>List of Annexures</b>
	<b>Link to Total Annexures (A+B) : <a href="https://mits.ac.in/dprannexures">https://mits.ac.in/dprannexures</a></b>

**A. The limited list of Annexures attached to this DPR in view of the restriction of the file size of 5 MB**

<b>Sl. No</b>	<b>Annexure Number</b>	<b>List of Annexures</b>	<b>Page Number</b>
1	2	NoC from affiliating University or the application submitted for obtaining NoC.	A.1
2	3	Copy of the application acknowledgment	A.2
3	10	Details of financial sustainability (last 3 years audited financial statements)	A.3
4	12	Undertaking of the proposed institution deemed to be University abiding all provisions of the act, rules, and regulations.	A.9
5	13	Undertaking from the Principal stating that the uploaded information is correct	A.10
6	14	The Layout of the campus and the Building Plans and Floor Plans of different facilities	A.11
7	19	The Civil Engineering Laboratories are NABL Accredited	A.20
8	59	The existing facilities like classrooms, libraries, labs, dormitories, computer centers, cafeteria, auditorium, seminar halls, playground etc.	A.21
9	68	List of Journal papers published (SCI/SCIE)	A.32
10	69	List of Journal papers published (Scopus Indexed)	A.78
11	70	List of Journal papers published (UGC Care)	A.119



12	71	List of Patents	A.126
13	72	List of funded research Projects	A.130
14	76	MoU with NIT Trichy, NITTTR Chennai	A.131
15	77	MoA between MITS and Asia University Taiwan	A.135
16	78	The MoU and Articulation Agreement between MITS and BRNO University of Technology	A.139
17	79	Various International MoUs signed between MITS and other International Universities	A.144

### **ADDITIONAL INFORMATION WITH RESPECT TO ANNEXURES**

**B.** The following list of Annexures referred in the Detailed Project Report, but not attached in this document due to limited space of 5 MB  
(These Annexures will be presented at the time of Inspection/Presentation)

<b>Sl. No.</b>	<b>Annexure Number</b>	<b>List of Annexures</b>	<b>Page No.</b>
1.	1	Society Registration document	06
2.	4	Name and contact details of Nodal Officer.	15
3.	5	Name of the proposed University along with Governing Body Resolution	15
4.	6	Details of the departments which will be part of the proposed University	15
5.	7	Details of the sponsoring body	15
6.	8	NBA/NAAC certifications (Certifications for the last three cycles.)	15
7.	9	Approval of relevant statutory bodies for professional courses being offered in the institution	15
8.	11	Undertaking of the sponsoring society abiding all provisions of the act, rules, and regulations.	15
9.	15	Common facilities, recreational facilities, details of hostel and other amenities	16
10.	16	Design and layout of the campus-Over next five year	26

11.	17	The additional infrastructure required for enhanced intake	28
12.	18	SWAYAM / NPTEL Local Chapters	63
13.	20	Academic Council	94
14.	21	Finance Committee	97
15.	22	Research Advisory Board	98
16.	23	Internal Quality Assurance Cell (IQAC)	99
17.	24	Purchase Committee	100
18.	25	Examination Committee	100
19.	26	Library & Information Resource Centre Committee	101
20.	27	Grievance Redressal Committee	102
21.	28	Anti-Ragging Committee	102
22.	29	Disciplinary Committee:	103
23.	30	Editorial Board, MITS, The Annual Magazine	103
24.	31	Extra-Curricular & Co-Curricular Committee	103
25.	32	Sports Committee	104
26.	33	Hostel Committee	105
27.	34	Alumni Coordination Committee:	106
28.	35	Industry Institute Interaction Committee	106
29.	36	Canteen Committee	106
30.	37	SC & ST Cell	107
31.	38	Minority Cell	107
32.	39	Internal complaints committee	107
33.	40	Prevention of Sexual Harassment Cell (POSHC)	108
34.	41	Committee for the welfare of differently abled persons	109
35.	42	Teaching-Learning Methodologies Policy	110
36.	43	Examination Policy	110
37.	44	Human Resource Policy	110
38.	45	International Relations Policy	110
39.	46	Research & Development Policy	110
40.	47	Intellectual Property Policy	110
41.	48	Innovation & Startup Policy	110
42.	49	Consultancy Policy	110
43.	50	Information Security Policy	110
44.	51	Alumni Policy	111
45.	52	Library Policy	111
46.	53	IQAC Policy	111
47.	54	Sports Policy	111

48.	55	Training & Placement Cell - Procedure for Campus Recruitment	111
49.	56	Transport Policy	111
50.	57	AICTE first approval for establishment of Institute	111
51.	58	The land ownership documents	112
52.	59	The existing facilities like classrooms, libraries, labs, dormitories, computer centers, cafeteria, auditorium, seminar halls, playground etc.	114
53.	60	The details of the outdoor and indoor play facilities	115
54.	61	The Library Details	116
55.	62	Health care Centre Details	118
56.	63	Monitors displaying the footage	118
57.	64	Rainwater harvesting structures and utilization in the campus	120
58.	65	Alternate Energy Sources	120
59.	66	E waste management	121
60.	67	Department wise current student data	128
61.	73	List of students who have joined in different NITs, State Universities for Master's program in the AY 2022-23 and those who have qualified in GATE	131
62.	74	List of faculty Members in the MITS Institute	169
63.	75	List of International conferences organised	171
64.	77	MoA between MITS and Asia University Taiwan	176
65.	78	The MoU and Articulation Agreement between MITS and BRNO University of Technology	177
66.	79	Various International MoUs signed between MITS and other International Universities	177
67.	80	Consultancy assignments	178
68.	81	The list of activities organized by the Entrepreneurship Development Cell	179

# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE



(UGC-AUTONOMOUS INSTITUTION)

Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu

www.mifs.ac.in www.mifs.edu



Annexure -2

Ref: MITS/Mpl/2024

Date: 6<sup>th</sup> January 2024

To  
The Secretary  
University Grants Commission (UGC)  
Bahadur Shah Zafar Marg,  
New Delhi - 110002

Respected Sir,

**Sub:** MITS, Madanapalle – Application submitted to affiliating University for obtaining  
“No Objection Certificate” – Reg.

\*\*\*

With reference to the above, we have written to our affiliating University, JNT University Anantapur, Ananthapuramu, Andhra Pradesh requesting “No Objection Certificate” for applying “Deemed to be University” as per UGC Gazette Notification No. F 1 -1/2021 (CPP-I/DU) dated: 2nd June 2023.

In this regard, we have sent the following letters to JNTUA, Ananthapuramu:

1. Application for “No Objection Certificate” dated 21.09.2023
2. First Reminder Letter dated: 07.10.2023
3. Clarification Letter dated: 30.10.2023
4. Second Reminder Letter dated: 9.12.2023
5. Third Reminder Letter dated: 01.01.2024

However, we have not received the “No Objection Certificate” till date.

This is for your kind information.

We attach herewith our all the above five letters along with acknowledgements.

Thanking You.

**Dr. N. Vijay Bhaskar Choudary**  
Secretary & Correspondent  
Secretary & Correspondent  
Madanapalle Institute of  
Technology & Science

**Dr. C. Yuvaraj**  
Principal  
Principal

Madanapalle Institute of  
Technology & Science  
MADANAPALLE

## Annexure - 3

MITSD/Deemed to be University Proposal/JNTUA/2024/01

Dated: 01.01.2024

### Reminder - 3

To

The Registrar,  
JNTUA,  
Ananthapuramu, A.P.

Respected Sir,

**Sub:** 69 - MITS, Madanapalle – No Objection Certificate for Deemed to be University – Request - Reg.

**Ref:** 1. MITS/ Deemed to be University Proposal/ JNTUA /2023/ 01 dated 21.09.2023  
2. MITS/ Deemed to be University Proposal/ JNTUA /2023/ 02, dated: 07.10.2023  
3. MITS/ Deemed to be University Proposal/ JNTUA /2023/ 03, dated 30.10.2023  
4. MITS/ Deemed to be University Proposal/ JNTUA /2023/ 04, dated: 9.12.2023

\* \* \*

This has reference to our letters dated 21<sup>st</sup> September 2023, 7<sup>th</sup> October 2023 & 9<sup>th</sup> December 2023 requesting for “No Objection Certificate” enabling us to apply for Deemed to be University. In this context, based on the clarifications sought by the University, we submitted our clarification letter dated: 30<sup>th</sup> October 2023 along with all necessary documents.

In view of this, we shall be much grateful if you kindly issue “No Objection Certificate” in our favour at the earliest.

Thanking You.

Yours sincerely,

(Dr. C. Yuvaraj)

Principal  
Principal

Madanapalle Institute of  
Technology & Science  
MADANAPALLE

21/1/2024  
P.A. TO REGISTRAR  
JNTUA Anantapur  
ANANTHAPURAMU OFFICE

Secretary & Correspondent  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE 517 325

**INDIAN INCOME TAX RETURN ACKNOWLEDGEMENT**

[Where the data of the Return of Income in Form ITR-1 (SABAD), ITR-2, ITR-3, ITR-4(SUGAM), ITR-5, ITR-6, ITR-7 filed and verified]  
(Please see Rule 12 of the Income-tax Rules, 1962)

Assessment Year  
**2020-21**

**Annexure - 10**

PAN	AAATR6289E		
Name	RATAKONDA RANGAREDDY EDUCATIONAL ACADEMY		
Address	POST BOX. NO.14, , Madanapalle, CHITTOOR, ANDHRA PRADESH, 517325		
Status	AOP/BOI	Form Number	ITR-7
Filed u/s	139(1)-On or before due date	e-Filing Acknowledgement Number	215605591150121

Taxable Income and Tax details	Current Year business loss, if any	1	0
	Total Income		0
	Book Profit under MAT, where applicable	2	0
	Adjusted Total Income under AMT, where applicable	3	0
	Net tax payable	4	0
	Interest and Fee Payable	5	0
	Total tax, interest and Fee payable	6	0
	Taxes Paid	7	377773
	(+)Tax Payable /(-)Refundable (6-7)	8	-377770
	Dividend Tax Payable	9	0
	Interest Payable	10	0
	Total Dividend tax and interest payable	11	0
	Taxes Paid	12	0
	(+)Tax Payable /(-)Refundable (11-12)	13	0
	Accreted Income as per section 115TD	14	0
	Additional Tax payable u/s 115TD	15	0
	Interest payable u/s 115TE	16	0
	Additional Tax and interest payable	17	0
	Tax and interest paid	18	0
(+)Tax Payable /(-)Refundable (17-18)	19	0	

Income Tax Return submitted electronically on 15-01-2021 20:40:42 from IP address 49.37.159.83 and verified by

N VIJAYABHASKAR CHOUDARY

having PAN ADNPN8447L on 15-01-2021 20:40:42 from IP address 49.37.159.83 using

Digital Signature Certificate (DSC),

[795371BCN=e-Mudhra Sub CA for Class 2 Individual 2014,OU=Certifying Authority,O=eMudhra Consumer Services Limited,C=IN

DSC details;

**DO NOT SEND THIS ACKNOWLEDGEMENT TO CPC, BENGALURU**

**MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE**  
**A UNIT OF RATAKONDA RANGA REDDY EDUCATION ACADEMY**  
**ANGALLU, MADANAPALLE**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 2019-20**

EXPENDITURE	2019-20	INCOME	2019-20
<b>EXPENDITURES</b>		<b>INCOMES</b>	
Administration expenses		<b>FEE COLLECTIONS</b>	
<b>DEPARTMENTAL EXPENSES</b>	19,37,938	B.Tech Fee Collection	32,96,13,111
Depreciation on Assets	1,62,44,885	Diploma Fee Collection	1,200
Salaries & Wages	36,93,41,773	MBA Fee collection	1,76,09,157
Vehicle Maintenance	98,75,887	MCA Fee collection	72,44,027
College Operating Expenses	56,10,905	M.Tech Fee Collection	66,13,383
Communication and Correspondence	41,52,084	P.hd. Fee Collection	50,000
Finance Charges	11,60,804		
JNTU Fee and other payments	1,18,37,300	<b>OTHER COLLECTIONS</b>	
Membership and other Fee	13,41,502	NBA Fees	85,23,000
National Festivals, Events and Celebrations	26,49,515	Registration Fees	4,47,658
Power and Fuel	42,74,462	Special Fees	2,93,54,450
Printing Stationery and Consumables	28,73,663		
Professional Charges and Consultancy	29,71,819	<b>OTHER INCOME</b>	
Promotion and Publicity Expenses	31,62,776	Interest income	22,73,143
Rent, Rates and Taxes	12,72,561	Misellneous income	5,98,243
Repairs and Maintenance	41,38,102	Transport charges from staff	14,06,000
Research and Development Expenses	86,117	LOP of staff	39,23,235
Social Service Activities	(8,50,000)	Other Income	7,57,628
Staff and Students welfare Expenses	47,08,180		
Teqip Expenses	9,90,000	Provisions Written back	12,14,97,461
Training and Placement Expenses	19,99,380		
Travel Boarding and Lodging	27,96,752		
Excess of Income over Expenditure	7,73,35,290		
<b>TOTAL</b>	<b>52,99,11,696</b>	<b>TOTAL</b>	<b>52,99,11,696</b>



For P.S. CHAITANYA & Co.,  
Chartered Accountants  
Firm Reg. No. 000548  
P.S. CHAITANYA, Proprietor  
Madanapalle, M.D. 022343

**INDIAN INCOME TAX RETURN ACKNOWLEDGEMENT**

[Where the date of the Return of Income in Form ITR-1 (SAHAJ), ITR-2, ITR-3, ITR-4(SUGAM), ITR-5, ITR-6, ITR-7 filed and verified]  
(Please see Rule 12 of the Income-tax Rules, 1962)

**Assessment Year**  
**2021-22**

PAN	AAATR6289E		
Name	RATAKONDA RANGAREDDY EDUCATIONAL ACADEMY		
Address	POST BOX, NO.14, Madanapalle, CHITTOOR, Madanapalle H.O, 02-Andhra Pradesh, 91-India, 517325		
Status	AOP/BOI	Form Number	ITR-7
Filed u/s	139(1) - Return filed on or before due date	e-Filing Acknowledgement Number	158383850110222

Taxable Income and Tax details			
Current Year business loss, if any	1		0
Total Income			0
Book Profit under MAT, where applicable	2		0
Adjusted Total Income under AMT, where applicable	3		0
Net tax payable	4		0
Interest and Fee Payable	5		0
Total tax, interest and Fee payable	6		0
Taxes Paid	7		35,642
(+)(Tax Payable /-)Refundable (6-7)	8		(-) 35,640
Dividend Tax Payable	9		0
Interest Payable	10		0
Total Dividend tax and interest payable	11		0
(+) Tax Payable /(-)Refundable (11-12)	12		0
Net Tax Payable /(-)Refundable (11-12)	13		0
Adjusted income as per section 115TD	14		0
Additional Tax payable u/s 115TD	15		0
Interest payable u/s 115TE	16		0
Additional Tax and interest payable	17		0
Tax and interest paid	18		0
(+)Tax Payable /(-)Refundable (17-18)	19		0

This return has been digitally signed by VIJAYABHASKAR CHOUDARY NADELLA in the capacity of having PAN ADNPN847L from IP address 10.1.213.135 on 11-02-2022 12:27:54

DSC Sl. No. & Issuer: 4955964 & 7255513033214994335CN=PantaSign CA 2014,OU=Certifying Authority,O=Pantagon Sign Securities Pvt. Ltd.,C-IN

System Generated

Barcode/QR Code:



AAATR6289D071583818011022211048098206100561E46572C283CC554161C

**DO NOT SEND THIS ACKNOWLEDGEMENT TO CPC, BENGALURU**



**MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE**  
**A UNIT OF RATAKONDA RANGA REDDY EDUCATION ACADEMY**  
**ANGALLU, MADANAPALLE**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 2020-21**

EXPENDITURE	2020-21	INCOME	2020-21
<b>EXPENDITURES</b>		<b>INCOMES</b>	
Administration expenses	-	<b>FEE COLLECTIONS</b>	
<b>DEPARTMENTAL EXPENSES</b>	15,22,839	B.Tech Fee Collection	43,45,35,725
Depreciation on Assets	1,38,05,878	MBA Fee collection	1,19,06,137
Salaries & Wages	33,21,79,280	MCA Fee collection	90,07,546
Vehicle Maintenance	87,84,571		
College Operating Expenses	80,59,941	<b>OTHER COLLECTIONS</b>	
Communication and Correspondence	48,22,579	NBA Fees	36,30,000
Finance Charges	1,15,48,604	Special Fees	79,65,298
JNTU Fee and other payments	90,74,100	<b>OTHER INCOME</b>	
Membership and other Fee	5,71,073	Interest income	7,17,596
National Festivals, Events and Celebrations	5,32,902	Misellneous income	18,10,861
Power and Fuel	24,15,492	Transport charges from staff	11,40,970
Printing Stationery and Consumables	19,38,151		
Professional Charges and Consultancy	18,18,350		
Promotion and Publicity Expenses	33,49,631		
Rent, Rates and Taxes	29,00,617		
Repairs and Maintenance	44,52,071		
Research and Development Expenses	5,03,468		
Social Service Activities	2,18,738		
Staff and Students welfare Expenses	10,03,058		
Training and Placement Expenses	6,11,221		
Travel Boarding and Lodging	9,43,871		
Excess of Income over Expenditure	5,96,57,718		
<b>TOTAL</b>	<b>47,07,14,153</b>	<b>TOTAL</b>	<b>47,07,14,153</b>



## INDIAN INCOME TAX RETURN ACKNOWLEDGEMENT

(Where the data of the Return of Income in Form ITR-1 (SAHAJ), ITR-2, ITR-3, ITR-4(SUGAM), ITR-5, ITR-6, ITR-7  
filed and verified)  
(Please see Rule 12 of the Income-tax Rules, 1962)

Assessment Year  
2022-23

PAN	AAATR6289E		
Name	RATAKONDA RANGAREDDY EDUCATIONAL ACADEMY		
Address	POST BOX NO.14 , Madanapalle H.O , Brahmanavodda Palle , CHITTOOR , 02-Andhra Pradesh , 91-India , 517325		
Status	AOP/BOI	Form Number	ITR-7
Filed u/s	139(1)- Return filed on or before due date	e-Filing Acknowledgement Number	563924301290922

Taxable Income and Tax details			
Current Year business loss, if any		1	0
Total Income			0
Book Profit under MAT, where applicable		2	0
Adjusted Total Income under AMT, where applicable		3	0
Net tax payable		4	0
Interest and Fee Payable		5	0
Total tax, interest and Fee payable		6	0
Taxes Paid		7	1,18,049
(+)/Tax Payable /(-)/Refundable (6-7)		8	(-) 1,18,050
Accrued Income as per section 115TD		9	0
Additional Tax payable u/s 115TD		10	0
Interest payable u/s 115TE		11	0
Additional Tax and interest payable		12	0
Tax and interest paid		13	0
(+)/Tax Payable /(-)/Refundable (17-18)		14	0

This return has been digitally signed by VIJAYABHASKAR CHOUDARY NADELLA in the capacity of Principal Officer having PAN ADNPN8447L from IP address 49.37.133.123 on 29-Sep-2022

DSC Sl. No. & Issuer: 4955964 & 7255513033214994335CN~PantaSign CA 2014,OU~Certifying Authority,O~Pantagon Sign Securities Pvt. Ltd.  
C~IN

System Generated

Barcode/QR Code



AAATR6289E0756392430129092233115095C42D34E53AC3D4937AC18BC8214D6C4E

**DO NOT SEND THIS ACKNOWLEDGEMENT TO CPC, BENGALURU!**

**MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE  
A UNIT OF RATAKONDA RANGA REDDY EDUCATION ACADEMY  
ANGALLU, MADANAPALLE  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 2021-22**

EXPENDITURE	2021-22	INCOME	2021-22
<b>EXPENDITURES</b>		<b>INCOMES</b>	
DEPARTMENTAL EXPENSES	30,01,453	<b>FEE COLLECTIONS</b>	
Depreciation on Assets	1,40,94,634	B.Tech Fee Collection	34,12,84,301
Software Renewals	18,61,078	MBA Fee collection	1,18,89,525
Salaries & Wages	28,53,29,929	MCA Fee collection	1,19,56,932
Vehicle Maintenance	99,76,580	M Tech Fee Collections	1,33,750
College Operating Expenses	90,14,396		
Communication and Correspondence	47,89,693		
Finance Charges	77,084		
JNTU Fee and other payments	95,16,225	<b>OTHER COLLECTIONS</b>	
Membership and other Fee	20,26,585	NBA Fees	22,78,900
National Festivals, Events and Celebrations	8,82,176	Special Fees	52,05,313
Power and Fuel	32,69,811		
Printing Stationery and Consumables	32,87,787	<b>OTHER INCOME</b>	
Professional Charges and Consultancy	36,86,375	Interest income	9,42,302
Promotion and Publicity Expenses	13,55,256	Misellneous income	9,63,958
Rent, Rates and Taxes	44,15,441	Transport charges from staff	11,09,725
Repairs and Maintenance	54,15,105		
Research and Development Expenses	9,47,662	Loss of Pay	1,81,06,604
Social Service Activities	1,02,558	Provision ReturnBack	27,61,370
Staff and Students welfare Expenses	22,01,484		
Training and Placement Expenses	22,37,058		
Travel Boarding and Lodging	10,24,532	Consultancy Income	8,41,411
Grant Department Expenditure	10,87,732	Interest Income	2,46,321
Excess of Income over Expenditure	2,81,19,828		
<b>TOTAL</b>	<b>39,77,20,412</b>	<b>TOTAL</b>	<b>39,77,20,412</b>



SECRETARY  
Ratakonda Ranga Reddy  
Educational Academy  
MADANAPALLE-517325

For P.S. CHAITANYA & Co.,  
CHARTERED ACCOUNTANTS  
Firm Reg. No. 1005455  
P.S. CHAITANYA, Prop. M.No. 022345



INDIA NON JUDICIAL



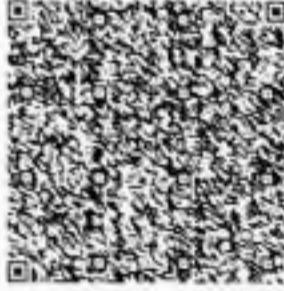
Government of Andhra Pradesh

IN-AP43066574392823V

Annexure - 12

e-Stamp

Certificate No. : IN-AP43066574392823V  
 Certificate Issued Date : 24-Nov-2023 04:54 PM  
 Account Reference : CSCACC (GV)/ apcsceg07/ AP-ANM/ AP-ANMGUN0052/apgunsud0052u  
 DDO Code : 27002308001 O/o IG R  
 Unique Doc. Reference : SUBIN-APAPCSCEG0776049086625229V  
 Purchased by : C YUVARAJ  
 Description of Document : Article 0 Not Mentioned  
 Property Description : Not Applicable  
 Consideration Price (Rs.) : 0  
 (Zero)  
 First Party : C YUVARAJ  
 Second Party : Not Applicable  
 Paid By (For Whom) : C YUVARAJ  
 Stamp Duty Amount(Rs.) : 100  
 (One Hundred only)



Please write or type below this line

**Undertaking By Institution**

Madanapalle Institute of Technology & Science (MITS), is in existence for the past 25 years. As per UGC Gazette Notification No. F 1 -I/2021 (CPP-I/DU) dated: 2<sup>nd</sup> June 2023, Madanapalle Institute of Technology & Science (MITS) wish to apply for the “Deemed to be University” status.

For this purpose, we hereby undertake to abide all provisions of the Act, Rules and Regulations as applicable to “Deemed to be University”.

*Cijj.*  
Dr. C. Yuvaraj  
Principal

*N. Vijay Bhaskar Choudary*  
Dr. N. Vijay Bhaskar Choudary  
Secretary & Correspondent

RD 0013734520

**Statutory Alert:**

1. The authenticity of this Stamp certificate should be verified at 'www.sholestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.



e-Stamp

Certificate No. : IN-AP40792137431669V  
 Certificate Issued Date : 15-Nov-2023 03:26 PM  
 Account Reference : CSCACC (GV)/ apcsceg07/ AP-ANM/ AP-ANMGUN0052/apgunsud0052u  
 DDO Code : 27002308001 O/o IG R  
 Unique Doc. Reference : SUBIN-APAPCSCEG0771515302853049V  
 Purchased by : C YUVARAJ  
 Description of Document : Article 0 Not Mentioned  
 Property Description : Not Applicable  
 Consideration Price (Rs.) : 0  
 (Zero)  
 First Party : C YUVARAJ  
 Second Party : SELF  
 Paid By (For Whom) : C YUVARAJ  
 Stamp Duty Amount(Rs.) : 100  
 (One Hundred only)



₹100

IN-AP40792137431669V

Please write or type below this line

AFFIDAVIT

I, **Dr. Chinnappa Yuvaraj**, Principal do hereby solemnly undertake on behalf of **MITs, Angallu, Madanapalle- Kadiri Road, NH- 42 [old NH – 205] Madanapalle - 517325, Andhra Pradesh, India**, that all the information being uploaded for the purpose of application made for the status of Deemed to be University is true to the best of my knowledge.

No part of the same is false and no material has been concealed in the information being uploaded in the UGC Portal towards our Application for Deemed to be University.

*[Signature]*  
**Dr. Chinnappa Yuvaraj**  
 Principal  
 Madanapalle Institute of  
 Technology & Science  
 MADANAPALLE-517325

**VERIFICATION:**

**VERIFIED at Madanapalle on this day of 23<sup>rd</sup> November, 2023 that the contents of the above said affidavit are true and correct to the best of my knowledge and belief and nothing material has been concealed therefrom.**

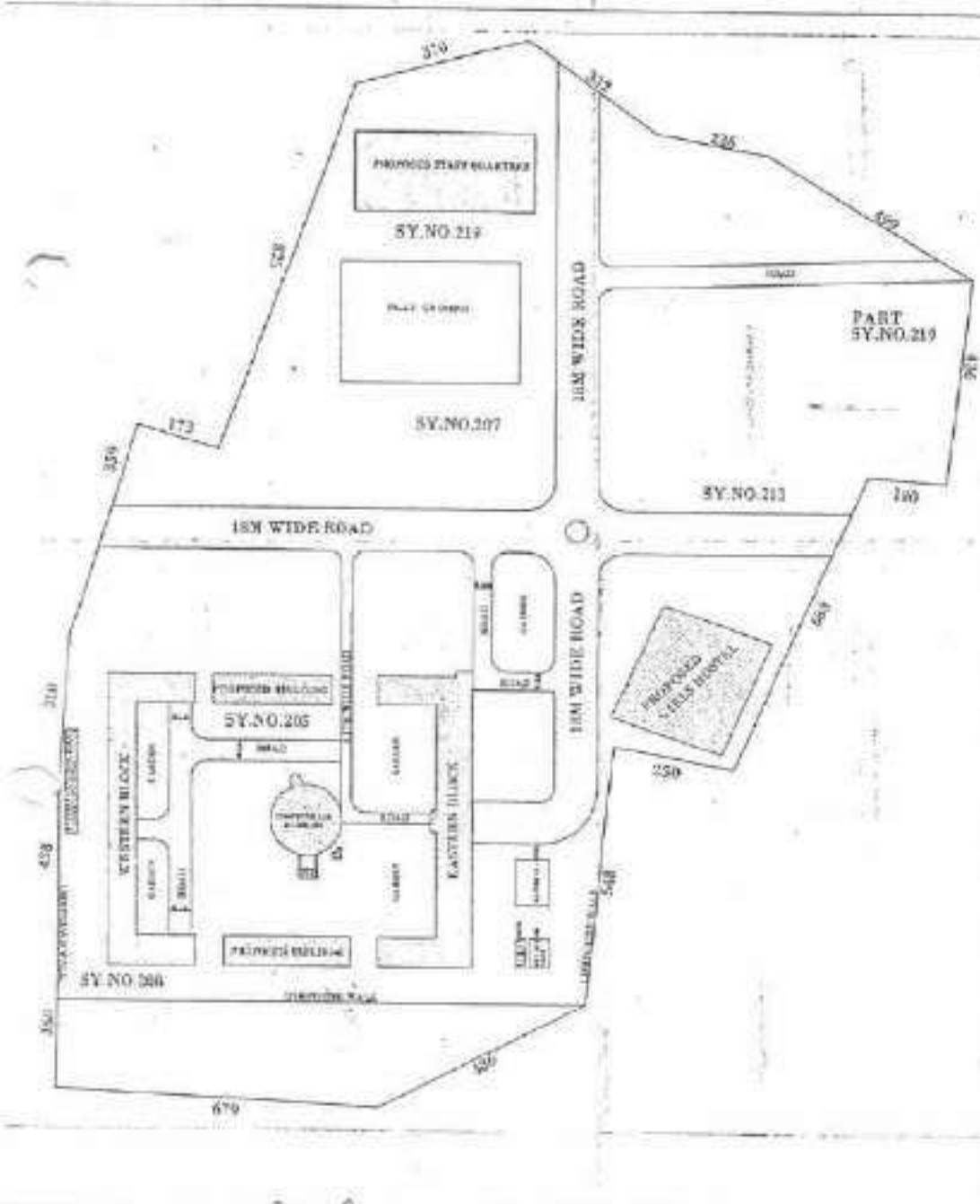


*[Signature]*  
**J. GOVINDA REDDY**  
 B.A., B.L.  
 NOTARY  
 G.O. Ms. No. 2445  
 APPOINTED BY GOVT. OF A.P.  
 MADANAPALLE - 517 325


*[Signature]*  
 DEPONENT(S)  
 0013675119  
 PRINCIPAL  
 Madanapalle Institute of  
 Technology & Science  
 MADANAPALLE-517325


1. This certificate should be verified at www.apcsceg.gov.in or www.apcsceg.ap.gov.in or the e-Stamp Mobile App of State Government of Andhra Pradesh.  
 2. The validity of this Certificate and as available on the website / Mobile App renders it invalid.  
 3. In case of any discrepancy please inform the Competent Authority.

Plan showing the building of  
**"MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE"**  
 Situated at Angalla Village, in Madanapalle of Chittoor (Dist),  
 Andhra Pradesh.

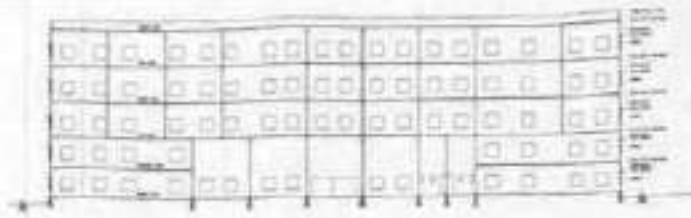


	
<b>LAND AREA:</b>	
SR.NO	AREA IN ACRES
107	4.14
108	3.34
109	17.08
110	2.12
111	1.00
<b>TOTAL</b>	<b>27.67</b>
<b>DETL OF AREA STATEMENT:</b>	
ACADEMIC BLOCK	= 17,08.00 Sqm
STAFF QUARTERS	= 1,404.00 Sqm
HALL	= 1,404.00 Sqm
EASTERN BLOCK	= 1,111.00 Sqm
WESTERN BLOCK	= 1,000.00 Sqm
BLACK SMITHY	= 1,000.00 Sqm
<b>TOTAL AREA</b>	<b>= 14,012.00 Sqm</b>
<b>ADDRESS:</b>	
O.E.A. ANGALLA VILLAGE, KURBALAGUDA MANDAL, MADANAPALLE, CHITTOOR DIST, ANDHRA PRADESH, INDIA.	
<b>TITLE:</b>	
MASTER PLAN	
<b>ARCHITECT'S SIGNATURE:</b>	
 ARCHITECT'S SIGNATURE	
<b>OWNER'S SIGNATURE:</b>	
 OWNER'S SIGNATURE	
<b>SCALE - 1"=4'</b>   <b>DATE / 1991/10</b>	
	
<b>SANCTIONING AUTHORITY:</b>	
Certificate of approval for the plan of Madanapalle Institute of Technology and Science, Madanapalle, Chittoor District, Andhra Pradesh.  Date: 10/10/91 [Signature]	
<b>ALL DIMENSIONS IN METERS</b>	

  
 Principal  
 Madanapalle Institute of  
 Technology & science  
 MADANAPALLE

  
 Secretary & Correspondent  
 Madanapalle Institute of  
 Technology & Science  
 MADANAPALLE 517 325

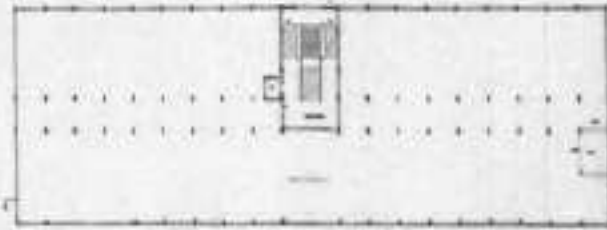
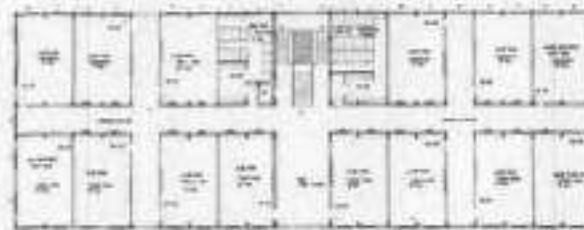
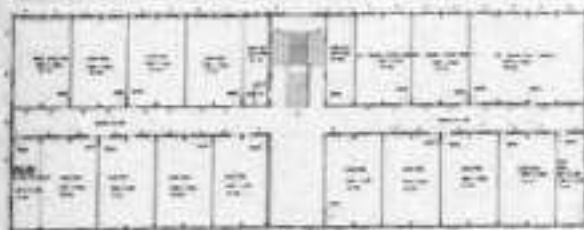
Plan showing Southern building of "MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE" At Angallu Village, in Madanapalle Taluk of Chittoor (Dist). Andhra Pradesh.



*Cyji*



Principal  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE



GROUND FLOOR  
1207.50

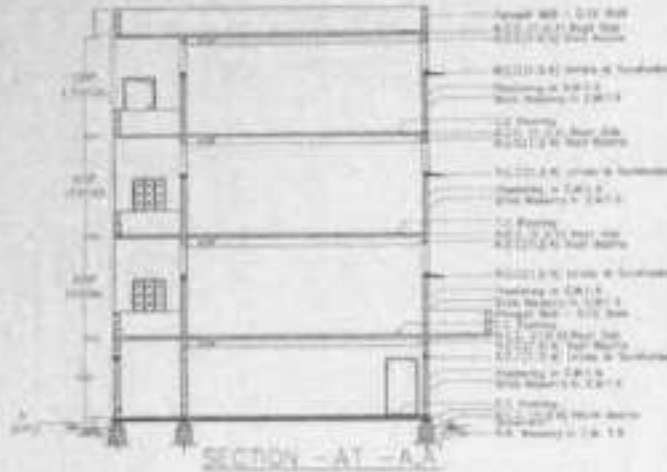
third floor  
1792.77 Smt  
8584.31 Smt

TERRACE FLOOR  
112.50





Plan showing the building of  
**"MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE"**  
 Situated at Angallu Village, in Madanapalle of Chittoor (Dist), Andhra Pradesh.



*Cy*  
**Principal**  
 Madanapalle Institute of  
 Technology & Science  
 MADANAPALLE

AREA STATEMENT  
 BASEMENT FLOOR PLAN  
 TOTAL AREA = 1789 Smt

ADDRESS  
 ANGALLU VILLAGE,  
 KURABALAKOTA MANDAL,  
 NIGDIS, MADANAPALLE,  
 ANANTHAPUR ROAD,  
 CHITTOOR (DIST),  
 ANDHRA PRADESH - 517325

TITLE  
 ADMIN & ACADEMIC BLOCK  
 BASEMENT FLOOR PLAN

ARCHITECT'S SIGNATURE  
*Sugam K. S.*  
**K. SUGAMA**  
 Architect, A. Archt. & CP  
 Reg. No. CA04/17507  
 (K.L. Sugama)

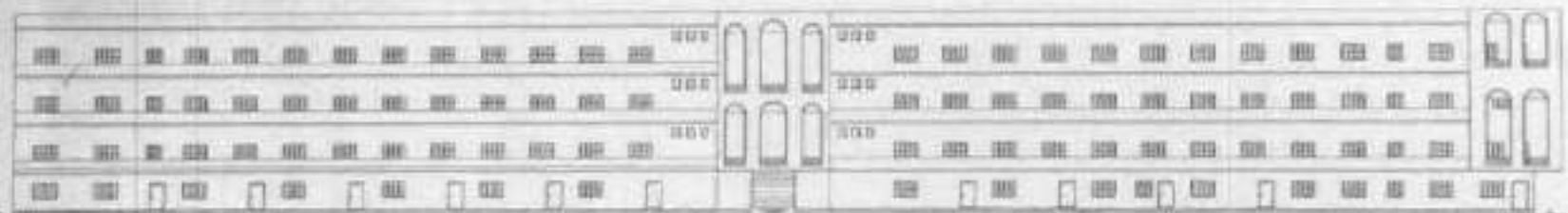
OWNER'S SIGNATURE  
*[Signature]*  
**Secretary**  
 RAJALENDRANAGI REDDY  
 EDUCATIONAL SOCIETY

SCALE: 1:150 DATE:

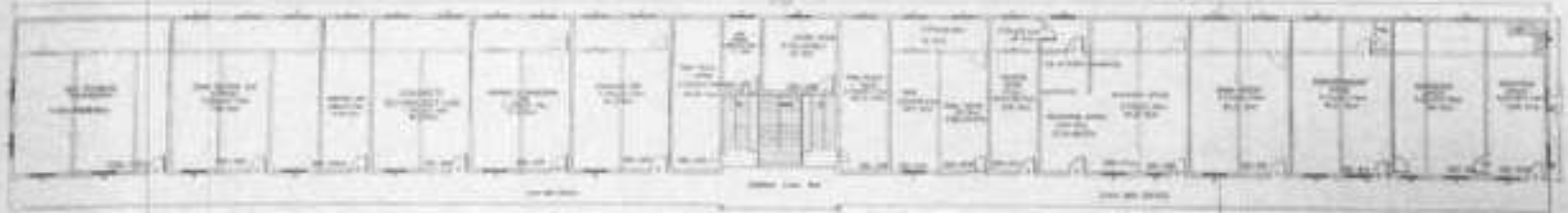


SANCTIONING AUTHORITY  
*Reviewed and approved the building plan of Madanapalle Institute of Technology & Science, Madanapalle, Angallu Village, Kurabalakota Mandal, Madanapalle Taluk.*

*[Signature]*  
**Principal**  
 Madanapalle Institute of  
 Technology & Science  
 ANGALLU  
 Kurabalakota Mandal



ELEVATION  
 EASTERN BUILDING



BASEMENT PLAN  
 1789 Smt

SCALE: 1:600

ALL DIMENSION IN MTS

**Plan showing the building of**  
**"MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE"**  
**Situated at Angallu Village, in Madanapalle of Chittoor (Dist), Andhra Pradesh.**



SCHEDULE OF OPENINGS

Door	6	12'0" x 6'0"
Window	12	6'0" x 4'0"
Veranda	2	2'0" x 4'0"
Staircase	1	5'0" x 3'0"

AREA STATEMENT

INDUSTRIAL BUILDING-I	= 1712 Sqm
INDUSTRIAL BUILDING-II	= 118 Sqm
TOTAL AREA	= 1830 Sqm

ADDRESS  
 10 Km. ANGALLU VILLAGGE,  
 KUDRALA ROAD A MANTALA,  
 DISTD. MADANAPALLE,  
 ANANTAPUR ROAD,  
 CHITTOOR (DIST),  
 ANDHRA PRADESH - 512225

TITLE  
**WORKSHOPS & LABS**

ARCHITECT'S SIGNATURE  
  
**K.L. SUDHINA**  
 Architect & Surveyor, A.C. No. 100/1997/11, Hyderabad  
 Reg. No. CA/94/17507  
 (K.L. Sudhina)

OWNER'S SIGNATURE  
  
 Secretary  
**BATAKONDA RANGA REDDY  
 EDUCATIONAL SOCIETY**

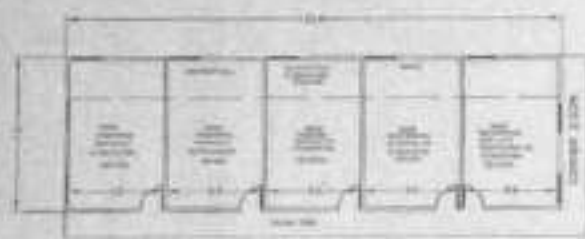
SCALE: 1:500 DATE:



SANCTIONING AUTHORITY  
 Forward and approved the  
 building plan of Madanapalle  
 Institute of Technology & Science  
 Madanapalle, Angallu village,  
 Anantapalle Mandal, Madanapalle  
 Taluk

Panchayath Secretary  
 CHITTOOR DISTRICT  
**ANGALLU**  
 ANANTAPUR DISTRICT  
 ALL DIMENSIONS IN METERS

**Industrial Building-I**



ROOF-WOODED SHED  
 GROUND FLOOR & MEZZANINE FLOOR  
 100% SHED



ELEVATION

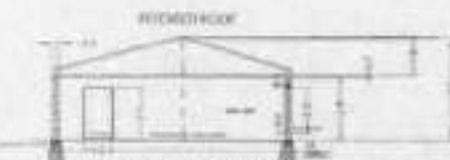


SECTION - AT - A-A'

**Industrial Building-II**



ELEVATION



SECTION - AT - A-A'

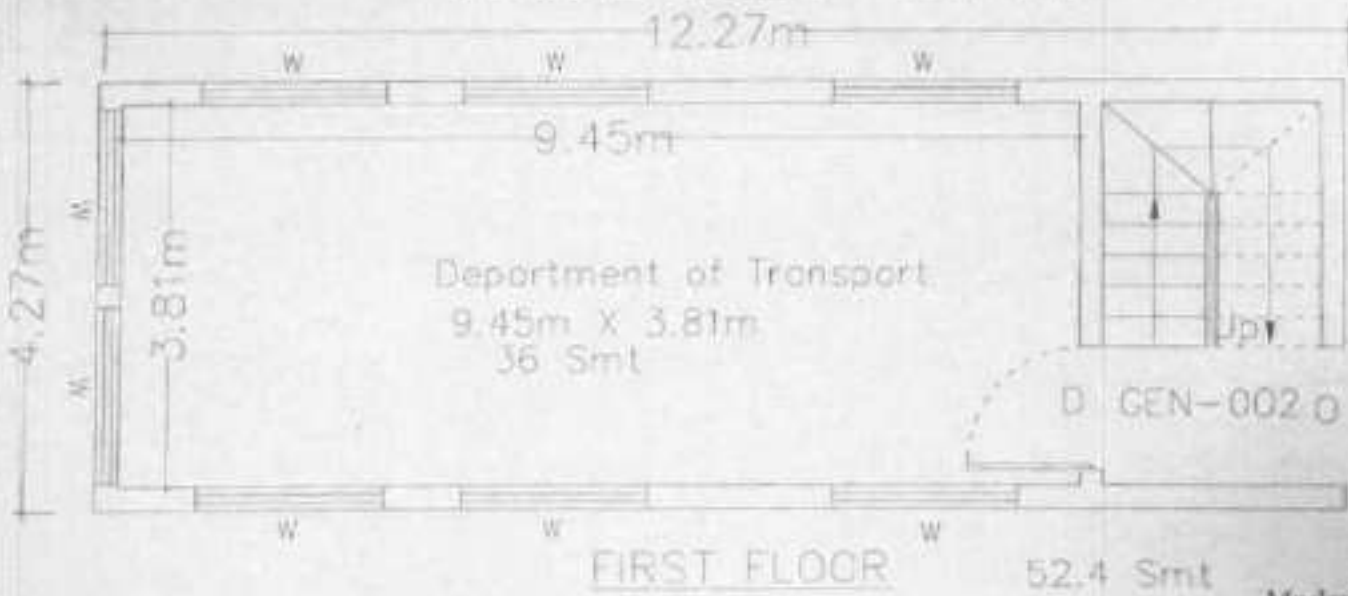
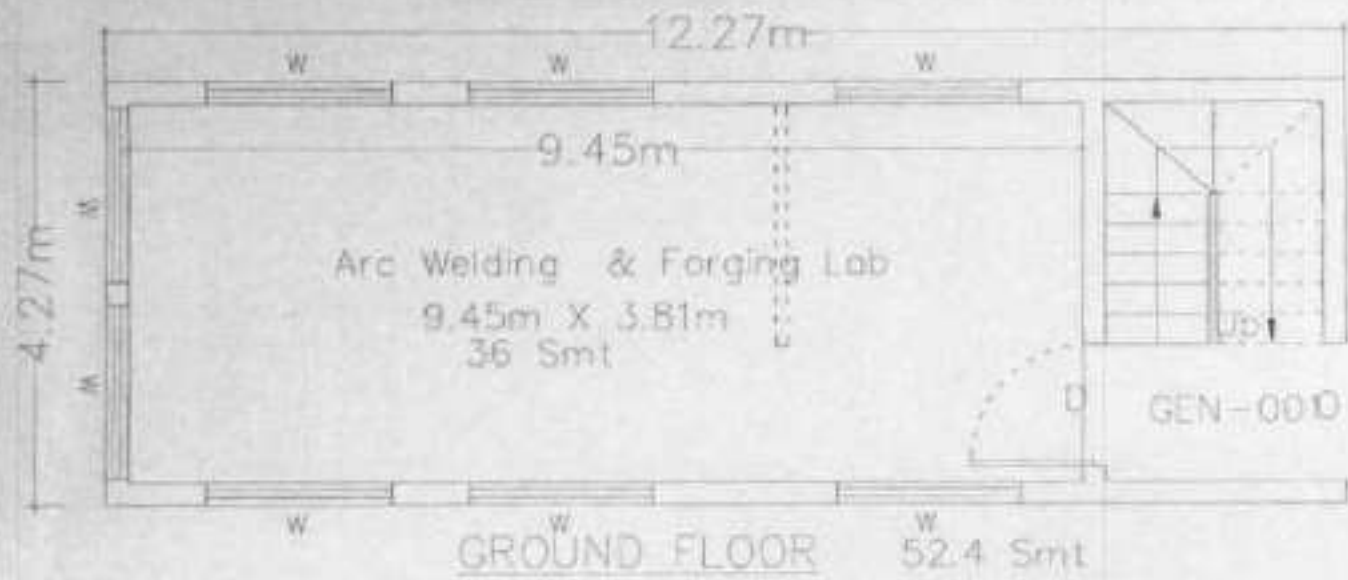
**Principal**  
**Madanapalle Institute of**  
**Technology & Science**  
**MADANAPALLE**

Plan showing the building of  
**"MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE"**  
 Situated at Angallu Village, in Madanapalle of Chittoor (Dist), Andhra Pradesh.



SCHEDULE OF OPENINGS

NO.	DESCRIPTION	AREA (SMT)
1	DOOR	10.00
2	WINDOW	10.00
3	...	...
4	...	...
5	...	...
6	...	...
7	...	...
8	...	...
9	...	...
10	...	...
11	...	...
12	...	...
13	...	...
14	...	...
15	...	...
16	...	...
17	...	...
18	...	...
19	...	...
20	...	...
21	...	...
22	...	...
23	...	...
24	...	...
25	...	...
26	...	...
27	...	...
28	...	...
29	...	...
30	...	...
31	...	...
32	...	...
33	...	...
34	...	...
35	...	...
36	...	...
37	...	...
38	...	...
39	...	...
40	...	...
41	...	...
42	...	...
43	...	...
44	...	...
45	...	...
46	...	...
47	...	...
48	...	...
49	...	...
50	...	...
51	...	...
52	...	...
53	...	...
54	...	...
55	...	...
56	...	...
57	...	...
58	...	...
59	...	...
60	...	...
61	...	...
62	...	...
63	...	...
64	...	...
65	...	...
66	...	...
67	...	...
68	...	...
69	...	...
70	...	...
71	...	...
72	...	...
73	...	...
74	...	...
75	...	...
76	...	...
77	...	...
78	...	...
79	...	...
80	...	...
81	...	...
82	...	...
83	...	...
84	...	...
85	...	...
86	...	...
87	...	...
88	...	...
89	...	...
90	...	...
91	...	...
92	...	...
93	...	...
94	...	...
95	...	...
96	...	...
97	...	...
98	...	...
99	...	...
100	...	...



104.8 Smt

ADDRESS  
 15 Km, ANGALLU VILLAGE,  
 KUJUBALACOT & MADANAPALLE,  
 NIZAM, MADANAPALLE,  
 ANANTHAPUR ROAD,  
 CHITTOOR (DIST),  
 ANDHRA PRADESH - 517121

TITLE  
 FORGING LAB & OTHER OFFICE

ARCHITECT'S SIGNATURE  
  
 S. SRINIVAS  
 ARCHITECT & ENGINEER, M. E.  
 Madanapalle - 517121  
 (K.J. No. 0000)  
 CA/94/175/07

OWNER'S SIGNATURE  
  
 RATAKONDA SANGA REDDY  
 EDUCATIONAL SOCIETY  
 SCALE: 1/300 DATE:

ARCHITECT'S FIRM  
  
 Srinivas Architects & Engineers  
 15 Km, Angallu Village,  
 Kujubalacot & Madanapalle,  
 Nizam, Madanapalle,  
 Ananthapur Road,  
 Chittoor (Dist),  
 Andhra Pradesh - 517121  
 Phone: 0863-2611111  
 Fax: 0863-2611112  
 Email: srinivas@srinivasarchitects.com

SANCTIONING AUTHORITY  
 Noted and approved the building  
 plan of Madanapalle Institute of  
 Technology & Science, Madanapalle,  
 Angallu village, Chittoor District,  
 Andhra Pradesh.

  
 Principal  
 Madanapalle Institute of  
 Technology & Science  
 MADANAPALLE

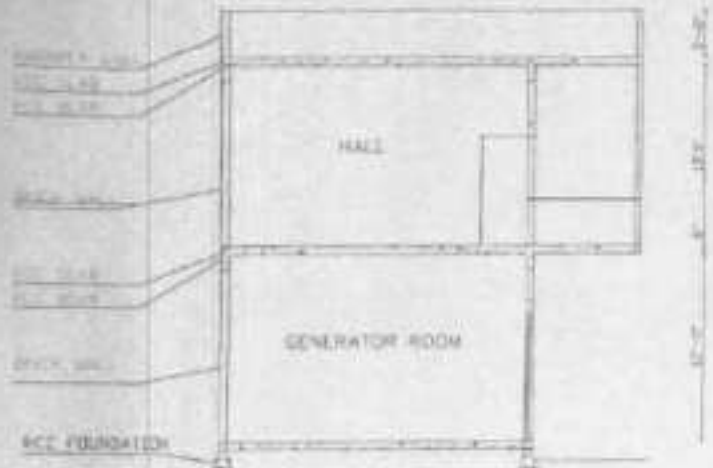
  
 Parishad Secretary  
 Gramamanchi, 15th  
 ANGALLU  
 Kuzubalacot Nizama

ALL DIMENSION IN METS

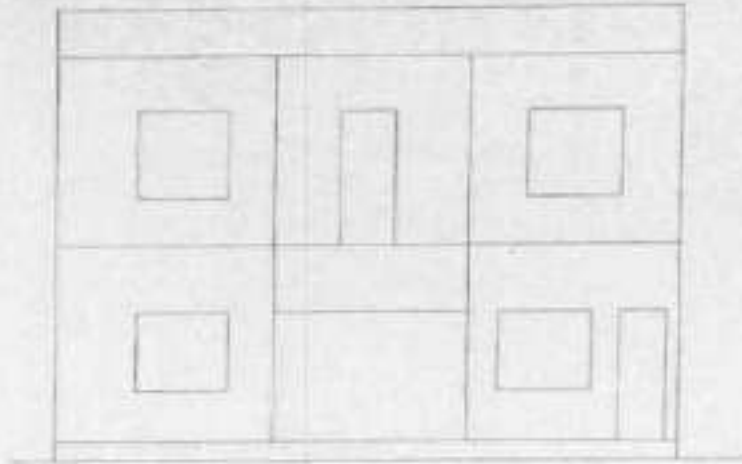
Plan showing the building of  
**"MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE"**  
 Situated at Angalla Village, in Madanapalle of Chittoor (Dist), Andhra Pradesh.



SCHEDULE OF OPENINGS



SECTIONAL VIEW



ELEVATIONAL VIEW

NO.	DESCRIPTION	AREA
1	DOOR	1.20
2	WINDOW	1.20
3	WINDOW	1.20
4	WINDOW	1.20
5	WINDOW	1.20
6	WINDOW	1.20
7	WINDOW	1.20
8	WINDOW	1.20
9	WINDOW	1.20
10	WINDOW	1.20
11	WINDOW	1.20
12	WINDOW	1.20
13	WINDOW	1.20
14	WINDOW	1.20
15	WINDOW	1.20
16	WINDOW	1.20
17	WINDOW	1.20
18	WINDOW	1.20
19	WINDOW	1.20
20	WINDOW	1.20
21	WINDOW	1.20
22	WINDOW	1.20
23	WINDOW	1.20
24	WINDOW	1.20
25	WINDOW	1.20
26	WINDOW	1.20
27	WINDOW	1.20
28	WINDOW	1.20
29	WINDOW	1.20
30	WINDOW	1.20
31	WINDOW	1.20
32	WINDOW	1.20
33	WINDOW	1.20
34	WINDOW	1.20
35	WINDOW	1.20
36	WINDOW	1.20
37	WINDOW	1.20
38	WINDOW	1.20
39	WINDOW	1.20
40	WINDOW	1.20
41	WINDOW	1.20
42	WINDOW	1.20
43	WINDOW	1.20
44	WINDOW	1.20
45	WINDOW	1.20
46	WINDOW	1.20
47	WINDOW	1.20
48	WINDOW	1.20
49	WINDOW	1.20
50	WINDOW	1.20

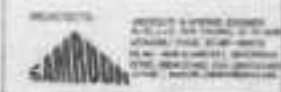
AREA STATEMENT  
 GROUND FLOOR 11.000 SQM  
 FIRST FLOOR 11.000 SQM  
 TOTAL AREA 22.000 SQM

ADDRESS  
 19 Km. ANGALLA VILLAGE,  
 KURRALA REDDY MANDAL,  
 MEDAK MANDAL,  
 ANANTHAPUR DISTRICT,  
 AP  
 PROJECT NO. 19/2017  
 TITLE  
 GENERATOR &  
 GUEST HOUSE

ARCHITECT'S SIGNATURE  
*Suguna K. G.*  
 K.L. SUDAN  
 REGISTERED ARCHT. & CIVIL  
 ENGR. NO. 19/2017  
 (D.L. Suguna)  
 CA/94/17/07

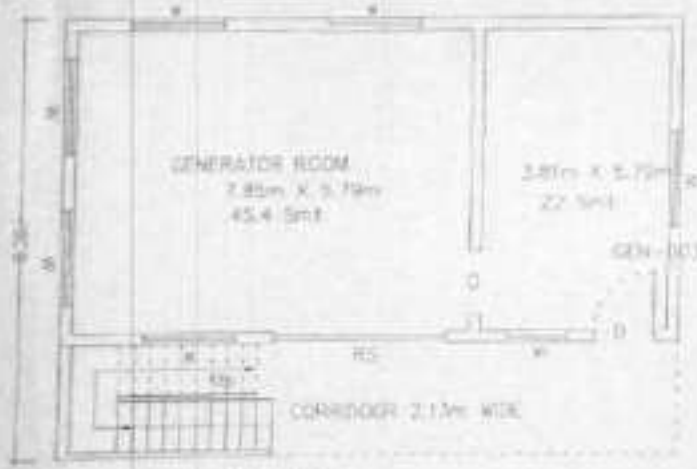
OWNER'S SIGNATURE  
  
 RAJAGOPAL RAO  
 DIRECTOR

SCALE: 1:225 DATE:

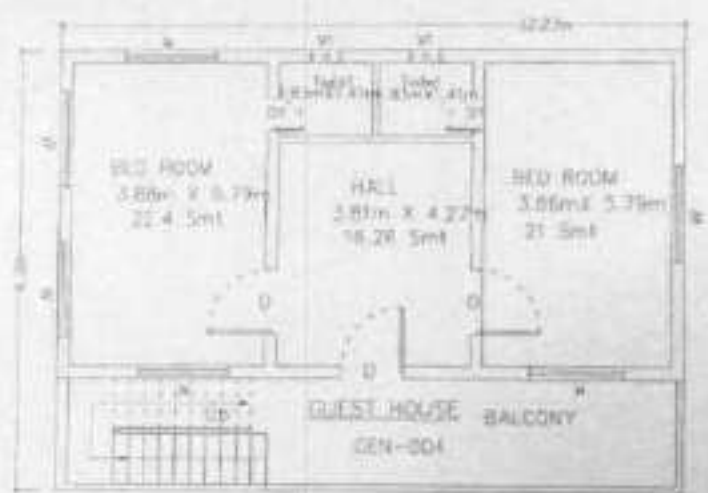


CONCERNING AUTHORITY  
 Drawn and approved the  
 building plan of Madanapalle  
 Institute of Technology &  
 Science, Angalla Village,  
 Kurrala Reddy Mandal,  
 Medak District, Andhra Pradesh.

*[Signature]*  
 District In-charge  
 Office No. 10/2017  
 ANGALLA VILLAGE  
 Madanapalle Mandal



POWER HOUSE  
 GROUND FLOOR 103 Smt



GUEST HOUSE 103 Smt  
 FIRST FLOOR

*[Signature]*  
 Principal  
 Madanapalle Institute of  
 Technology & Science  
 MADANAPALLE

Plan showing the building of  
**"MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE"**  
 Situated at Angallu Village, in Madanapalle of Chittoor (Dist), Andhra Pradesh.



SCHEDULE OF OPENINGS

NO.	DESCRIPTION	AREA
1	DOOR	10.00
2	DOOR	10.00
3	DOOR	10.00
4	DOOR	10.00
5	DOOR	10.00
6	DOOR	10.00
7	DOOR	10.00
8	DOOR	10.00
9	DOOR	10.00
10	DOOR	10.00
11	DOOR	10.00
12	DOOR	10.00
13	DOOR	10.00
14	DOOR	10.00
15	DOOR	10.00
16	DOOR	10.00
17	DOOR	10.00
18	DOOR	10.00
19	DOOR	10.00
20	DOOR	10.00
21	DOOR	10.00
22	DOOR	10.00
23	DOOR	10.00
24	DOOR	10.00
25	DOOR	10.00
26	DOOR	10.00
27	DOOR	10.00
28	DOOR	10.00
29	DOOR	10.00
30	DOOR	10.00
31	DOOR	10.00
32	DOOR	10.00
33	DOOR	10.00
34	DOOR	10.00
35	DOOR	10.00
36	DOOR	10.00
37	DOOR	10.00
38	DOOR	10.00
39	DOOR	10.00
40	DOOR	10.00
41	DOOR	10.00
42	DOOR	10.00
43	DOOR	10.00
44	DOOR	10.00
45	DOOR	10.00
46	DOOR	10.00
47	DOOR	10.00
48	DOOR	10.00
49	DOOR	10.00
50	DOOR	10.00



AREA STATEMENT  
 EASTERN CANTEEN  
 GROUND FLOOR PLINTH & CORN - 98.48 SQ M  
 FIRST FLOOR PLINTH AREA - 66.81 SQ M  
 TOP SHOP SHOP ROOF & STORE  
 SECOND FLOOR PLINTH AREA - 207.00 SQ M  
 TOTAL AREA - 292.29 SQ M

ADDRESS:  
 10 Km, ANGALLU VILLAGE,  
 KURABALAKOTA MANDAL,  
 NIZAM, MADANAPALLE,  
 ANANTHAPUR ROAD,  
 CHITTOOR (DIST),  
 ANDHRA PRADESH - 517325.

TITLE  
 EASTERN CANTEEN MESS &  
 STORE & PARTY ROOM

ARCHITECT'S SIGNATURE  
*Sy. K.L. SUGUNA*  
 ARCHITECT AND M.C. OF  
 ANDHRA PRADESH  
 (K.L. Suguna)  
 CA/94/17507

OWNER'S SIGNATURE  
*[Signature]*  
 Secretary  
 HATARAGUDA BANGA RIBHOY  
 EDUCATIONAL SOCIETY

SCALE : 1:300 DATE:

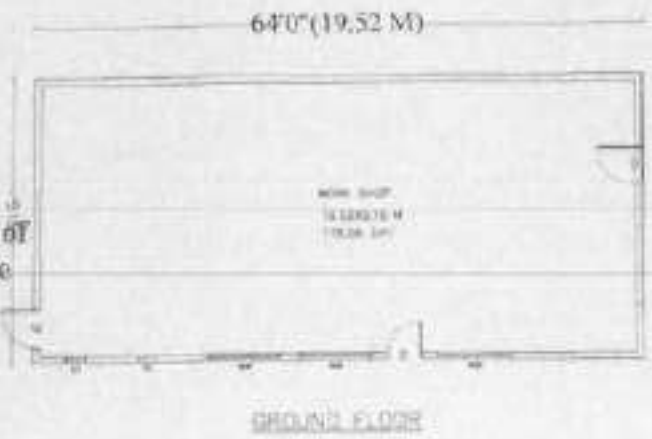


SANCTIONING AUTHORITY  
 Received and approved the  
 building plan of Madanapalle  
 Institute of Technology & Science,  
 Madanapalle - Angallu village,  
 Kurabalakota Mandal, Nizam District

*[Signature]*  
 Sanctioning Secretary  
 Gram Panchayat  
 ANGALLU  
 Kurabalakota Mandal

ALL DIMENSIONS IN METS

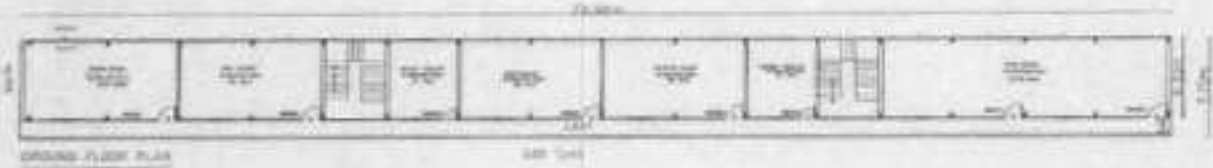
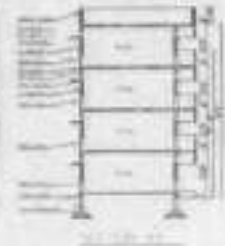
*[Signature]*  
 Principal  
 Madanapalle Institute of  
 Technology & Science  
 MADANAPALLE



**Plan showing the building of  
"MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE"  
Situating at Angallu Village, in Madanapalle of Chittoor (Dist), Andhra Pradesh.**



RESEARCH BUILDING



RESEARCH BUILDING

TOTAL AREA = 2,540 Sqm

ADDRESS

10 Km, ANGALLU VILLAGE,  
KURABALAKOTA MANDAL,  
NIDUS, MADANAPALLE,  
ANANTHAPUR ROAD,  
CHITTOOR (DIST),  
ANDHRA PRADESH - 517325

TITLE

SPORTS CLUB & RESEARCH BLOCK

ARCHITECT'S SIGNATURE

*Srinivas K. C.*  
S. SRINIVAS  
ARCHITECT  
(K.L. 501300)  
CA 04177507

OWNER'S SIGNATURE

*[Signature]*  
Secretary  
BATAKUNDA RANGA REDDY  
EDUCATIONAL SOCIETY

SCALE: 1:100

DATE

*[Signature]*  
Principal  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE



SANCTIONING AUTHORITY

Endorsed and approved the building  
plan of Madanapalle Institute of  
Technology & Science Madanapalle,  
Angallu village, Kurabalakota Mandal  
Madanapalle Taluk.

SCHEDULE OF APPROVALS	
Sl. No.	Description
1	1. SITE PLAN
2	2. FLOOR PLAN
3	3. SECTION & ELEVATION
4	4. DRAWING & APPROVAL

APPROVALS	
Sl. No.	Name
1	1. APPROVAL
2	2. APPROVAL
3	3. APPROVAL
4	4. APPROVAL

*[Signature]*  
Panchajanya Secretary  
Gram Panchajanya  
ANGALLU  
Kurabalakota Mandal

ALL DIMENSION IN MTS



National Accreditation Board for  
Testing and Calibration Laboratories

Annexure - 19

**CERTIFICATE OF ACCREDITATION**

**MITS - MATERIAL AND QUALITY TESTING LABORATORY**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

KADIRI ROAD, ANGALLU, MADANAPALLE, CHITTOOR, ANDHRA PRADESH, INDIA

in the field of

**TESTING**

Certificate Number: TC-11131

Issue Date: 05/11/2022

Valid Until: 04/11/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : Rathakonda Rangareddy Education Trust

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE		
EASTERN BUILDING		
S.no	FLOOR	BUILT UP AREA in Sqm
1	Basement	1789
2	Ground	2497
3	First	2207
4	Second	2207
5	Third	238
		8938
		8938 Sqm

  
KAVITHA SHETTY  
B.Arch  
Registered Architect  
BCC/BL/3.8/A-1682/2007-08  
COA REGN NO. CA/30/13298



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE WESTERN BUILDING		
S.no	FLOOR	BUILT UP AREA in Sqm
1	Ground	2170
2	First	2184.36
3	Second	2184.36
4	Third	2184.36
		8723.08
		8723 Sqm

  
**KAVITHA SHETTY**  
 B.Arch  
 Registered Architect  
 BCC/BL-3.6(A)-1693/2007-08  
 GOA REGN NO CA/90/13295

**MADANAPALLE INSTITUTE OF  
TECHNOLOGY & SCIENCE**

**SOUTHERN BUILDING**

S.no	FLOOR	BUILT UP AREA in Sqm
1	Ground	3094
2	First	1792.77
3	Second	1792.77
4	Third	1792.77
5	TEERACE	112
6	AC Control Panel	31.8
		<b>8616.11</b>
		<b>8616</b>

of Madanapalle Institute of Technology  
& Science

*Shiva Shankar*

Site Engineer

*Kavitha Shetty*  
**KAVITHA SHETTY**  
B.Arch

Registered Architect  
ECCRC No. 11/1662/2007-08  
COA REGD No. 1013296

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE CIRCULAR BUILDING		
S.no	FLOOR	BUILT UP AREA in Sqm
1	Ground	803
2	First	803
3	Second	783
4	Terrace	14
		2403
		2403 Sqm



KAVITHA SHETTY  
B.Arch

Registered Architect  
BCC/SC-3.9(A)-1982/2007-08  
COA REGN NO CA/90/13296

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE		
INDUSTRIAL BUILDING		
S.no	FLOOR	BUILT UP AREA in Sqm
1	Industrial building -I- Ground and Mezzanine floor	1310
2	Industrial building -II- Ground floor	179
		1489
		1489 Sqm

  
**KAVITHA SHETTY**  
 B Arch  
 Registered Architect  
 BCC/BL-3-47A-1652/1037-08  
 COA REGN NO CA/50/13218

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE		
RESEARCH BUILDING		
S.no	FLOOR	BUILT UP AREA in Sqm
1	Ground	585
2	First	585
3	Second	585
4	Third	585
		2340
		2340 Sqm

  
**KAVITHA SHETTY**  
 B.Arch  
 Registered Architect  
 ECC/BL-3, S/A-1002/2007-08  
 COA REGN N.J. CA/90/13290

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE	
GENERAL BUILDINGS	
S.no	FLOOR
BUILT UP AREA in Sqm	
1	Ground floor-GEN-001
	52.4
2	First floor-GEN-002
	52.4
3	Ground floor-GEN-003
	103
4	First floor-GEN-004
	103
5	Ground floor-GEN-005
	430
6	Ground floor-GEN-005A
	164.42
7	First floor-GEN-006&007
	63.83
8	Ground floor- GEN-008 to GEN-012
	237
9	Ground-ATM,Post & Shops- GEN
	90
10	Security Post
	11
11	Security Office Entrance 1
	7.26
12	Security Office Entrance 2
	4.85
13	Sewage treatment Plant
	54.56
	1373.72
	1374 Sqm

  
KAVITHA SHETTY  
B.Arch

Registered Architect  
ECC/BL-3, S/A-1662/2007-08  
COA REGN NO CA/90/15298

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE				
DETAILS OF BOREWELL'S				
S.no	LOCATION	DEPTH	CAPACITY	PIPES( 50 mm dia)
1	inside Compound Wall Near Eastern building opposite side	220 feet	7.5 hp motor	9
2	Outside compound wall Near Eastern building opposite side	675 feet	12.5 hp motor	30
3	ATM Side near Main road	720 feet	12.5 hp motor	35
4	Outside compound wall Near Main road	850 feet	15 hp motor	35

  
KAVITHA SHETTY  
B.Arch

Registered Architect  
BCCRI - 1 with Regd 2007-08  
DOR Regd No CA/90/19236



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA



## CARPET AREA

Sl. No.	CARPET AREA	AREA IN Sq.m
1	INSTRUCTIONAL	17070
2	ADMINISTRATIVE	3459
3	AMENITIES	3512
4	CIRCULATION AREAS & OTHERS	9842
	<b>Total</b>	<b>33883</b>

*Shiv Shankar*

SITE ENGINEER

SITE ENGINEER

M. I. T. S.

MADANAPALLE

*Kavitha Shetty*

KAVITHA SHETTY

B.Arch

Registered Architect  
BCC/BL-3.6/A-1662/2007-08  
COA REGN NO CA/90/13298





# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA



## BUILT UP AREA

Sl. No.	Block	Total Built up Area (in Sq.m.)
1	Eastern Block	8938
2	Western Block	8723
3	Circular Block	2403
4	Southern Block, Auditorium & Central library	8616
5	Industrial Block	1489
6	Research Block & Sports & Fitness	2340
7	General Blocks	1374
	<b>Total</b>	<b>33883</b>

*Shiva Shankar*

SITE ENGINEER

SITE ENGINEER  
M. I. T. S.  
MADANAPALLE

*Kavitha Shetty*  
KAVITHA SHETTY  
B.Arch

Registered Architect  
BCC/BL-3.6/A-1662/2007-08  
COA REGN NO CA/90/13296



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA



## CIRCULATION AREA

Area Type	Average Carpet Area in Sqm	Flooring	Painting Done	Electrification & Lighting	Building Name	Building Number	Apply for Site Change
Corridors	4,569	Yes	Ready	Ready	EASTERN, WESTERN, SOUTHERN, CIRCULAR, INDUSTRIAL, RESEARCH GENERAL	01, 02, 03, 04, 05, 06	No
Other Areas (in Sq m)	3,525	Yes	Ready	Ready	EASTERN, WESTERN, SOUTHERN, CIRCULAR, INDUSTRIAL, RESEARCH, GENERAL	01, 02, 03, 04, 05, 06	No
Other Common Area (in Sq m)	1,748	Yes	Ready	Ready	EASTERN, WESTERN, SOUTHERN, CIRCULAR, INDUSTRIAL, RESEARCH GENERAL	01, 02, 03, 04, 05, 06	No

9,842 Sq.m

*Shiva Shankar*

SITE ENGINEER

SITE ENGINEER  
M. I. T. S.  
MADANAPALLE

*Kavitha Shetty*

KAVITHA SHETTY  
B.Arch

Registered Architect  
BCC/BL-3.6/A-1662/2007-08  
COA REGN NO CA/90/13296

*Cijj*

PRINCIPAL

PRINCIPAL  
M. I. T. S.  
MADANAPALLE

## List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2022-23

S.No.	Authors	Title	Source Title	DOI
1	<b>Bellam J.B.</b> , Bhargavi M., Kuchi C., Saha D., Chandra Sekhar M., Verma V.K.	Deposition and characterization of CuI thin film as hole transporting layer for perovskite solar cells	Bulletin of Materials Science	10.1007/s12034-022-02831-0
2	Kumar B., <b>Roy D.</b> , Lakshmi V.	Impact of temperature and precipitation lapse rate on hydrological modelling over Himalayan Gandak River Basin	Journal of Mountain Science	10.1007/s11629-020-6602-5
3	Maity C.K., De S., Acharya S., Siddiki S.H., <b>Sahoo S.</b> , Verma K., Thakur V.K., Nayak G.C.	Copper oxide stabilized oxy-functionalized boron nitride-carbon nanotube nanohybrid: An ultra-stable electrode for flexible asymmetric supercapacitor device in ionic electrolyte	Journal of Energy Storage	10.1016/j.est.2022.105928
4	Bojjagani S., Reddy Y.C.A.P., Anuradha T., <b>Rao P.V.V.</b> , Reddy B.R., Khan M.K.	Secure Authentication and Key Management Protocol for Deployment of Internet of Vehicles (IoV) Concerning Intelligent Transport Systems	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2022.3207593
5	Hussain I., Lamiel C., <b>Sahoo S.</b> , Javed M.S., Ahmad M., Chen X., Gu S., Qin N., Assiri M.A., Zhang K.	Animal- and Human-Inspired Nanostructures as Supercapacitor Electrode Materials: A Review	Nano-Micro Letters	10.1007/s40820-022-00944-z
6	Sheikh T.A., <b>Deekshitha S.</b> , Shalini N., Indira P., Rajasekaran S., Borah J.	Capacity maximization in cell free massive mimo network with access point selection method	International Journal of Sensors, Wireless Communications and Control	10.2174/2210327913666221222145957
7	<b>Shankar R.</b> , Beuria M.K., Kulkarni G.R., Zamani A.S., Krishna P., Krishnan V.G.	Examination of the DL Based Ubiquitous MIMO U/L NOMA System Considering Robust Fading Channel Conditions for Military Communication Scenario	Journal of Information Science and Engineering	10.6688/JISE.202211_38(6).0013
8	Sivaiah A., <b>Ramanujam B.</b> , Ramesh Babu K.	Fluorescent benzofurazan derivatized triazole linked mono and di-glucopyranosyl conjugates: Selective sensing of fluoride ion and coordination features by DFT computation	Carbohydrate Research	10.1016/j.carres.2022.108653
9	Kumar S.A.P., Suresh A., Anand S.R., <b>Chokkanathan K.</b> , Vijayarathy M.	Hybridization of Mean Shift Clustering and Deep Packet Inspected Classification for Network Traffic Analysis	Wireless Personal Communications	10.1007/s11277-021-08208-6
10	Zzaman M., Franklin J.B., Kumar A., Dawn R., <b>Verma V.K.</b> , Shahid R., Gupta M.K., Amemiya K., Miura Y., Meena R., Kandasami A., Singh V.R.	Effect of Cr-substitution on vanadium dioxide thin films studied by soft X-ray magnetic circular dichroism	Journal of Alloys and Compounds	10.1016/j.jallcom.2022.165515

S.No.	Authors	Title	Source Title	DOI
11	Sharma P., <b>Tiwari R.N.</b> , Singh P., Kumar P., Kanaujia B.K.	MIMO Antennas: Design Approaches, Techniques and Applications	Sensors (Basel, Switzerland)	10.3390/s22207813
12	Thirugnanasambandam K., <b>Ramalingam R.</b> , Mohan D., Rashid M., Juneja K., Alshamrani S.S.	Patron–Prophet Artificial Bee Colony Approach for Solving Numerical Continuous Optimization Problems	Axioms	10.3390/axioms11100523
13	Hussain I., Lamiel C., <b>Sahoo S.</b> , Ahmad M., Chen X., Javed M.S., Qin N., Gu S., Li Y., Nawaz T., Ansari M.Z., Zhang K.	Factors affecting the growth formation of nanostructures and their impact on electrode materials: A systematic review	Materials Today Physics	10.1016/j.mtphys.2022.100844
14	Nadeem R., Saif M., Khan N.	Fractional Integral and Derivative Formulae for Multi-index Wright Generalized Bessel Function	International Journal of Applied and Computational Mathematics	10.1007/s40819-022-01333-1
15	<b>Verma V.K.</b> , Sakamoto S., Ishikawa K., Singh V.R., Ishigami K., Shibata G., Kadono T., Koide T., Kuroda S., Fujimori A.	Cr doping-induced ferromagnetism in the spin-glass Cd <sub>1-x</sub> MnxTe studied by x-ray magnetic circular dichroism	Physica B: Condensed Matter	10.1016/j.physb.2022.414129
16	Peng Y., Wang Y., Raffik R., <b>Jagota V.</b> , Bhatia K.K., Kumar R., Kannan N.	Vibration State Monitoring of Mechanical Equipment Based on Wireless Sensor Network Technology	Electrica	10.5152/electrica.2022.22051
17	<b>Eswaraiah S.</b> , Seo K.-H., Kumar K.N., Ratnam M.V., Koval A.V., Jeong J.-Y., Mengist C.K., Lee Y.-S., Greer K., Hwang J.-Y., Lee W., Pramitha M., Venkata Chalapati G., Venkatarami Reddy M., Kim Y.H.	Anthropogenic Influence on the Antarctic Mesospheric Cooling Observed during the Southern Hemisphere Minor Sudden Stratospheric Warming	Atmosphere	10.3390/atmos13091475
18	<b>Ramalingam R.</b> , Karunanidhy D., Alshamrani S.S., Rashid M., Mathumohan S., Dumka A.	Oppositional Pigeon-Inspired Optimizer for Solving the Non-Convex Economic Load Dispatch Problem in Power Systems	Mathematics	10.3390/math10183315
19	<b>Mohan B.</b> , Oh K.H., Chan Park J., Yusuf M., Park K.H., Youn B.	A simple synthesis of surfactant-free polycrystalline CuO nanoparticles supported on carbon nanofibers for regioselective hydroboration of alkynes	RSC Advances	10.1039/d2ra04668g
20	Prasanth A., Getachew S., Shewa T., <b>Velumani M.</b> , Meher S.R., Alex Z.C.	A Bilayer SnO <sub>2</sub> /MoS <sub>2</sub> -Coated Evanescent Wave Fiber Optic Sensor for Acetone Detection—An Experimental Study	Biosensors	10.3390/bios12090734

S.No.	Authors	Title	Source Title	DOI
21	<b>Ramalingam R.</b> , Muniyan R., Dumka A., Singh D.P., Mohamed H.G., Singh R., Anand D., Noya I.D.	Routing Protocol for MANET Based on QoS-Aware Service Composition with Dynamic Secured Broker Selection	Electronics (Switzerland)	10.3390/electronics11172637
22	Babu M V., Kumar C.N.S.V., Parthiban S., <b>Padmavathi U.</b> , Rahman M.Z.U.	AE-LEACH: An Incremental Clustering Approach for Reducing the Energy Consumption in WSN	Microprocessors and Microsystems	10.1016/j.micpro.2022.104602
23	Singh A., Sinha M.K., <b>Jagota V.</b> , Kumar R.	Production, characterisation and utilisation of grinding swarf/feedstock for synthesis of metal matrix composite through powder metallurgy process: A short communication	Sadhana - Academy Proceedings in Engineering Sciences	10.1007/s12046-022-01923-1
24	Zeng J., Devarayapalli K.C., <b>Nallabala N.K.R.</b> , Prabhakar Vattikuti S.V., Shim J.	Synthesis and photocatalytic activity of bismuth carbonate micro-nanoplates	Inorganic Chemistry Communications	10.1016/j.inoche.2022.109820
25	<b>Bahadur J.</b> , Ghahremani A.H., Martin B., Pishgar S., Sunkara M.K., Druffel T., Pal K.	Solution-Processed Cu:SnO <sub>2</sub> as an Efficient Electron Transport Layer for Fabrication of Low-Temperature Planar Perovskite Solar Cell under Ambient Conditions	IEEE Journal of Photovoltaics	10.1109/JPHOTOV.2022.3162340
26	Muhiuddin G., Pramanik T., Alanazi A.M., <b>Mahboob A.</b> , Pal M.	Independent Fuzzy Graph: A New Approach	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	10.1007/s40010-022-00769-w
27	<b>Ramalingam R.</b> , Karunanidhy D., Balakrishnan A., Rashid M., Dumka A., Afifi A., Alshamrani S.S.	OGWO-CH: Hybrid Opposition-Based Learning with Gray Wolf Optimization Based Clustering Technique in Wireless Sensor Networks	Electronics (Switzerland)	10.3390/electronics11162593
28	Al-Tahan M., Davvaz B., <b>Mahboob A.</b> , Hoskova-Mayerova S., Vagaská A.	On New Filters in Ordered Semigroups	Symmetry	10.3390/sym14081564
29	Muniyan R., <b>Ramalingam R.</b> , Alshamrani S.S., Gangodkar D., Dumka A., Singh R., Gehlot A., Rashid M.	Artificial Bee Colony Algorithm with Nelder–Mead Method to Solve Nurse Scheduling Problem	Mathematics	10.3390/math10152576
30	<b>Baruah S.</b> , Borah J., Bora J., Maity S.	Optical modelling of a GaAs/GaSb core–shell cone-topped octagonal-faced nanopillar array with periodic trapezoidal textured cut for high photon trapping efficiency	Journal of Computational Electronics	10.1007/s10825-022-01898-6

S.No.	Authors	Title	Source Title	DOI
31	Saha D., Gurung J., Roy B., Pulikkal A.K., Bhowmik A., <b>Pattanayak S.</b>	Optimizing pyrolysis process parameters of plastic grocery bag, with mass–energy assessment and characterization of oil at optimal condition	Clean Technologies and Environmental Policy	10.1007/s10098-022-02298-x
32	<b>Arun I., Yuvaraj C.</b> , Sivakumar A., Thamizhmanii S.	Micro-structure and self-lubricant properties of powder mixed electrical discharge metal matrix composite coating	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	10.1177/09544089211062665
33	Sudhakar T., Sambath Kumar S., Ravi V., <b>Ramalingam R.</b> , Dua S.	Neighborhood rough set-based route selection for mobile ad hoc networks	International Journal of Communication Systems	10.1002/dac.5178
34	<b>Shankar R.</b> , Ahmad A., Veerappan S., Beuria M.K., Krishna P., Singh S.S., Krishnan V.G.	Examination of User Pairing NOMA System Considering the DQN Scheme Over Time-Varying Fading Channel Conditions	Journal of Information Science and Engineering	10.6688/JISE.202207_38(4).0010
35	Dastagiri S., Lakshmaiah M.V., Manjunath V., <b>Nallabala N.K.R.</b> , Ravi N., Dhanalakshmi M., Kukkambakam C., Krishnaiah K.V., Reddy V.R.M.	INVESTIGATIONS ON FUNCTIONAL PROPERTIES OF Al <sub>0.8</sub> Eu <sub>y</sub> La <sub>0.2-y</sub> TiO <sub>3</sub> (y = 0.01 - 0.04) NANOPARTICLES SYNTHESIZED BY HYDROTHERMAL METHOD	Surface Review and Letters	10.1142/S0218625X22500974
36	<b>Narasimha Murthy K.V.</b> , Kishore Kumar G.	Distribution and Prediction of Monsoon Rainfall in Homogeneous Regions of India: A Stochastic Approach	Pure and Applied Geophysics	10.1007/s00024-022-03042-8
37	<b>Mahesh M.</b> , Harigovindan V.P.	Hidden terminal aware grouping scheme for IEEE 802.11ah based dense IoT networks	Computer Communications	10.1016/j.comcom.2022.04.033
38	Pal R.	Electrochemical characterisation of catalytic property for oxygen reduction reaction on cobalt ferrite electrode	Ferroelectrics	10.1080/00150193.2022.2130789
39	Pornavalai C., Tanessakulwattana S., <b>Chakraborty G.</b>	A Novel Precomputed Optimal Procrastination Time Interval for Re-clustering to Maximize Operation Time of Wireless Sensor Networks	IEEE Transactions on Network and Service Management	10.1109/TNSM.2022.3229740
40	<b>Vivekananda G.N.</b> , Jarwar M.A., Jaber M.M., Prakash C., Buddhi D., Gnanasigamani L.J., Sanz-Prieto I.	Effective two-tier tokenization for intelligent transportation supply chain systems using hybrid optimized query expansion	Multimedia Tools and Applications	10.1007/s11042-022-14317-6
41	Yao W., <b>Jagota V.</b> , Kumar R., Ather D., Jain V., Quraishi S.J., Osei-Owusu J.	Study and Application of an Elevator Failure Monitoring System Based on the Internet of Things Technology	Scientific Programming	10.1155/2022/2517077

S.No.	Authors	Title	Source Title	DOI
42	Sreenivasulu G., Sahoo N.C., Balakrishna P.	A coordinated stochastic dispatch model for hybrid energy markets with renewable energy uncertainties using moth flame optimization	Energy Systems	10.1007/s12667-022-00535-2
43	Paul S., D U., Naidu Y., Reddy Y.	An efficient SIFT-based matching algorithm for optical remote sensing images	Remote Sensing Letters	10.1080/2150704X.2022.2121186
44	Mishra B.P., Barik M.	Free Flexural Vibration Analysis of Thin Plates Using NURBS-Augmented Finite-Element Method	Journal of Vibration Engineering and Technologies	10.1007/s42417-022-00639-0
45	Kuppusamy, P; Kumari, NMJ; Alghamdi, WY; Alyami, H; Ramalingam, R; Javed, AR; Rashid, M	Copper oxide stabilized oxy-functionalized boron nitride-carbon nanotube nanohybrid: An ultra-stable electrode for flexible asymmetric supercapacitor device in ionic electrolyte	Journal of Energy Storage	<a href="https://doi.org/10.1016/j.est.2022.105928">https://doi.org/10.1016/j.est.2022.105928</a>
46	Bellam, JB; Bhargavi, M; Kuchi, C; Saha, D; Sekhar, MC; Verma, VK	Patron-Prophet Artificial Bee Colony Approach for Solving Numerical Continuous Optimization Problems	BULLETIN OF MATERIALS SCIENCE	<a href="https://doi.org/10.3390/axioms11100523">https://doi.org/10.3390/axioms11100523</a>
47	Pal, R	A Bilayer SnO2/MoS2-Coated Evanescent Wave Fiber Optic Sensor for Acetone Detection-An Experimental Study	FERROELECTRICS	10.1080/00150193.2022.2130789
48	Hussain, I; Lamiel, C; Sahoo, S; Javed, MS; Ahmad, M; Chen, X; Gu, S; Qin, N; Assiri, MA; Zhang, KL	Artificial Bee Colony Algorithm with Nelder-Mead Method to Solve Nurse Scheduling Problem	NANO-MICRO LETTERS	10.1007/s40820-022-00944-z
49	Kumar, B; Roy, D; Lakshmi, V	An Intelligent Fault Detection and Classification Scheme for Distribution Lines Using Machine Learning	JOURNAL OF MOUNTAIN SCIENCE	10.1007/s11629-020-6602-5
50	Maity, CK; De, SBN; Acharya, S; Siddiki, SH; Sahoo, S; Verma, K; Thakur, VK; Nayak, GC	Artificial intelligence technology in electronic communication engineering for medical applications	JOURNAL OF ENERGY STORAGE	10.1016/j.est.2022.105928
51	Paul, S; Udaysankar, D; Naidu, Y; Reddy, Y	INVESTIGATIONS ON FUNCTIONAL PROPERTIES OF Al <sub>0.8</sub> EuyLa <sub>0.2-y</sub> TiO <sub>3</sub> (y=0.01-0.04) NANOPARTICLES SYNTHESIZED BY HYDROTHERMAL METHOD	REMOTE SENSING LETTERS	10.1080/2150704X.2022.2121186
52	Shankar, R; Beuria, MK; Kulkarni, GR; Zamani, A; Krishna, P; Krishnan, VG	Secure Token-Key Implications in an Enterprise Multi-Tenancy Environment Using BGV-EHC Hybrid Homomorphic Encryption	JOURNAL OF INFORMATION SCIENCE AND ENGINEERING	10.6688/JISE.202211_38(6).0013

S.No.	Authors	Title	Source Title	DOI
53	Hussain, I; Lamiel, C; Sahoo, S; Ahmad, M; Chen, X; Javed, MS; Qin, N; Gu, S; Li, YX; Nawaz, T; Ansari, MZ; Zhang, KL	Solution-Processed Cu:SnO <sub>2</sub> as an Efficient Electron Transport Layer for Fabrication of Low-Temperature Planar Perovskite Solar Cell Under Ambient Conditions	MATERIALS TODAY PHYSICS	10.1016/j.mtphys.2022.100844
54	Sharma, P; Tiwari, RN; Singh, P; Kumar, P; Kanaujia, BK	Optical modelling of a GaAs/GaSb core-shell cone-topped octagonal-faced nanopillar array with periodic trapezoidal textured cut for high photon trapping efficiency	SENSORS	10.3390/s22207813
55	Thirugnanasambandam, K; Ramalingam, R; Mohan, D; Rashid, M; Juneja, K; Alshamrani, SS	Laser processing of graphene and related materials for energy storage: State of the art and future prospects	AXIOMS	10.3390/axioms11100523
56	Tripathi, SK; Joshi, AM	Generalizations of Fuzzy q-Ideals of BCI-Algebras	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	10.1142/S021812662220002X
57	Bojjagani, S; Reddy, YCAP; Anuradha, T; Rao, PVV; Reddy, BR; Khan, MK	A Secure Energy-Aware Game Theory (SEGaT) Mechanism for Coordination in WSAWs	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	10.1109/TITS.2022.3207593
58	Zhang, Y; Kaur, A; Jagota, V; Neware, R	A review on TIG welding technology variants and its effect on weld geometry	JOURNAL OF INTELLIGENT SYSTEMS	10.1515/jisys-2021-0264
59	Babu, RL; Gurumoorthy, S; Parameshachari, BD; Nelson, SC; Hua, QZ	A numerical study on the performance characteristics of low head Francis turbine with different turbulence models	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	10.1142/S0218126622502322
60	Sivaiah, A; Ramanujam, B; Babu, KR	Thermal radiation and diffusion effects in MHD Williamson and Casson fluid flows past a slendering stretching surface	CARBOHYDRATE RESEARCH	10.1016/j.carres.2022.108653
61	Eswaraiah, S; Seo, KH; Kumar, KN; Ratnam, MV; Koval, AV; Jeong, JY; Mengist, CK; Lee, YS; Greer, K; Hwang, JY; Lee, W; Pramitha, M; Chalapathi, GV; Reddy, MV; Kim, YH	Growth and properties of nanocrystalline TiN-amorphous Si <sub>3</sub> N <sub>4</sub> composite thin films deposited on IN718 and phynox alloy substrates	ATMOSPHERE	10.3390/atmos13091475
62	Peng, YH; Wang, Y; Raffik, R; Jagota, V; Bhatia, KK; Kumar, R; Kannan, N	A Deep Learning Based Convolution Neural Network-DCNN Approach to Detect Brain Tumor	ELECTRICA	10.5152/electrica.2022.22051



S.No.	Authors	Title	Source Title	DOI
63	Prasanth, A; Getachew, S; Shewa, T; Velumani, M; Meher, SR; Alex, ZC	Investigation of the fifth generation non-orthogonal multiple access technique for defense applications using deep learning	BIOSENSORS-BASEL	10.3390/bios12090734
64	Ramalingam, R; Muniyan, R; Dumka, A; Singh, DP; Mohamed, HG; Singh, R; Anand, D; Noya, ID	Performance evaluation of perforated pin fin heat sink using particle swarm optimization and MCDM techniques (May, 10.1007/s10973-021-10872-6, 2021)	Journal of Thermal Analysis and Calorimetry	<a href="https://doi.org/10.1007/s10973-021-10872-6">https://doi.org/10.1007/s10973-021-10872-6</a>
65	Ramalingam, R; Karunanidiy, D; Alshamrani, SS; Rashid, M; Mathumohan, S; Dumka, A	A computational framework for ranking prediction of cloud services under fuzzy environment	MATHEMATICS	10.3390/math10183315
66	Krishnaiah, K.V., Venkatalakshamma, P., Upendra Kumar, K., Haritha, P., Lavin, V., Martin, I.R., Ravi, N., Satish Kumar Reddy, H., Venkatramu, V., Nallabala, N.K.R., Yuvaraj, C.	Structure, morphology, photonconversion and energy transfer characteristics of Er <sup>3+</sup> /Yb <sup>3+</sup> :BaYF <sub>5</sub> nanocrystals synthesized by hydrothermal method for photovoltaics	Ceramics International	10.1016/j.ceramint.2023.05.225
67	Nathiya, D., Wilson, J., Gurunathan, K., Rani, G.M., Raju, C.V., Chaudhary, V.	Ultrasensitive Detection of Bovine Serum Albumin on DNA Modified Protein Microcapsules-based Electrodes	Journal of the Electrochemical Society	10.1149/1945-7111/acd357
68	Thenrajan, T., Anandhakumar, M., Gokana, M.R., Chaudhary, V., Rajaram, R., Venkateswara Raju, C., Wilson, J.	Guar Gum Supported ZIF-8 as an Effective Catalyst for Electrochemical Sensing of Gallic Acid in Liquid Food Samples	Journal of the Electrochemical Society	10.1149/1945-7111/acc556
69	Rao, P.V.V., Anand, M., Daniel, J.A., Sivaparthipan, C.B., Kirubakaran, S.S., Gnanasigamani, L.J., Punitha, P.	Millimeter assisted wave technologies in 6G assisted wireless communication systems: a new paradigm for 6G collaborative learning	Wireless Networks	10.1007/s11276-023-03324-6
70	Kumar, P.T.V., Naidu, K.V., Reddy, P.V., Hoque, S.	Performance Analysis of Pool-Based Spectrum Handoff in Cognitive Radio Networks	Wireless Personal Communications	10.1007/s11277-023-10441-0
71	Sharan, N., Ghorai, S.K., Kumar, A.	Alleviating LED Nonlinearity in a HACO System Using a Blend of Precoder and a $\mu$ -Law Compander	Wireless Personal Communications	10.1007/s11277-023-10474-5

S.No.	Authors	Title	Source Title	DOI
72	Nallabala, N.K.R., C, Y., Vohra, A., Dhamodaran, A., Kaleemulla, S., Jaswanth, A., Chandra Mohan, K., Sambasivam, S., Netheti, V.S.B., Reddy, V.R.M., Kim, W.K.	Evaluation of Photosensing Parameters of Au/polystyrene/n-Si Heterojunction Based Self-Powered Organic Broadband Photodetectors	Silicon	10.1007/s12633-023-02458-8
73	Kumar, A., Lakshmi pathi, A.R., Nagabhooshanam, N., Sahu, S.K., Patil, P.P., Satyanarayana, V., Praveen, N.	Effect of Adding Rice Husk Ash Functional Silicon Additives on Flammability Wear and Thermal Stability of Ramie-Epoxy Composite	Silicon	10.1007/s12633-023-02463-x
74	Ramalingam, R., Saleena, B., Basheer, S., Balasubramanian, P., Rashid, M., Jayaraman, G.	EECHS-ARO: Energy-efficient cluster head selection mechanism for livestock industry using artificial rabbits optimization and wireless sensor networks	Electronic Research Archive	10.3934/era.2023158
75	Pavithra, D., Nidhya, R., Shanthi, S., Priya, P.	A secured and optimized deep recurrent neural network (DRNN) scheme for remote health monitoring system with edge computing	Automatika	10.1080/00051144.2023.2195218
76	Pratheesh, K., Narayanasamy, P., Prithivirajan, R., Ramkumar, T., Balasundar, P., Indran, S., Sanjay, M.R., Siengchin, S.	Cenosphere filled epoxy composites: structural, mechanical, and dynamic mechanical studies	Biomass Conversion and Biorefinery	10.1007/s13399-023-04154-4
77	Sivakumar, E.R., Krishna, R., Senthilkumar, P., Krishnakumar, T.S., Colak, I.	Comprehensive study of diesel engine characteristics of valves coated by titanium nitride (TiN)	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	10.1177/09544089231157950
78	Ponnappalli, B., Lakshmikhandan, K., Palanisamy, K., Sithambaram, M.	A hybrid technique for grid-connected solar-wind hybrid system with electric vehicles	Energy and Environment	10.1177/0958305X231153933
79	Suganya, G., Kumar, S.M., Nagaraj, M., Velumani, A.	Mechanical, Dielectric and Thermal Stability of Silicon Oxynitride Nanoparticle Dispersed Tamarind Fiber-Reinforced Epoxy Bio-composite	Silicon	10.1007/s12633-023-02320-x
80	Singh, L.P., Sharma, G.	Dielectric spectroscopy investigation of relaxation processes in the low-frequency regime and validity of the Stokes-Einstein-Nernst/Stokes-Einstein-Debye relation in poly(propylene glycol)	Macromolecular Research	10.1007/s13233-022-00104-7
81	Saif, M., Khan, F., Khan, S.A.	Error estimation by Schurer type (p, q)-Lorentz operator on a compact disk	Filomat	10.2298/FIL2301303S

S.No.	Authors	Title	Source Title	DOI
82	Chakraborty, G., Wang, W., Chakraborty, B., Tai, S.-K., Lo, Y.-S.	Grading of HCC Biopsy Images Using Nucleus and Texture Features	IEEE Journal of Biomedical and Health Informatics	10.1109/JBHI.2022.3215226
83	Banerjee, A., Maity, S.P.	Jamming in Eavesdropping on Throughput Maximization in Green Cognitive Radio Networks	IEEE Transactions on Mobile Computing	10.1109/TMC.2021.3068797
84	Ketham, R., Althuwayb, A.A., Kumar, A.	Low-profile Magneto-electric Dipole Antenna	IETE Journal of Research	10.1080/03772063.2021.1873200
85	Mengist, C.K., Seo, K.-H., Kim, Y.H., Eswaraiyah, S., Ssessanga, N., Kwak, Y.-S.	3-D Regional Imaging of Ionosphere Over Africa Through Assimilating Satellite and Ground-Based Data	Journal of Geophysical Research: Space Physics	10.1029/2022JA030859
86	Sethuraman, S.K., Malaiyappan, N., Ramalingam, R., Basheer, S., Rashid, M., Ahmad, N.	Predicting Alzheimer's Disease Using Deep Neuro-Functional Networks with Resting-State fMRI	Electronics (Switzerland)	10.3390/electronics12041031
87	Mandal, A.K., Sen, R., Chakraborty, B.	Quantum-Inspired Owl Search Algorithm with Ensembles of Filter Methods for Gene Subset Selection from Microarray Data	International Journal of Pattern Recognition and Artificial Intelligence	10.1142/S0218001423510011
88	Singh, L.P.	Primary and secondary relaxation processes in poly(propylene glycol) monobutyl ether: a broadband dielectric spectroscopy investigation	Polymer Journal	10.1038/s41428-022-00728-7
89	Mahapatro, S.R., Subudhi, B.	Disturbance rejection-based robust decentralized controller design for a multivariable system	Transactions of the Institute of Measurement and Control	10.1177/01423312221114348
90	Hemanandh, J., Devarajan, Y., Mishra, R., Meenakshisundaram, N.	Experimental investigation on slaughter, fish waste and poultry excrete oil as fuel blends in diesel engine	Biomass Conversion and Biorefinery	10.1007/s13399-021-01293-4
91	Sekaran, R., Al-Turjman, F., Patan, R., Ramasamy, V.	Tripartite Transmitting Methodology for Intermittently Connected Mobile Network (ICMN)	ACM Transactions on Internet Technology	10.1145/3433545
92	Hussain, I., Sahoo, S., Hussain, T., Ahmad, M., Javed, M.S., Lamiel, C., Gu, S., Kaewmaraya, T., Sayed, M.S., Zhang, K.	Theoretical and Experimental Investigation of In Situ Grown MOF-Derived Oriented Zr-Mn-oxide and Solution-Free CuO as Hybrid Electrode for Supercapacitors	Advanced Functional Materials	10.1002/adfm.202210002
93	Thyda, L., Dasi, G., Abdul Azeez, M.S., Naresh, K., Suneetha, S., Amaladass, P., Vijayakumar, S., Hussain, I., Jayavel, R., Thangaraju, K.	Solution processed highly transparent nitrogen-doped carbon quantum dots/ZnO hybrid thin films: A study on structural and enhanced UV emission	Applied Surface Science	10.1016/j.apsusc.2022.155664

S.No.	Authors	Title	Source Title	DOI
94	Muhiuddin, G., Mahapatra, T., Pal, M., Alshahrani, O., Mahboob, A.	Integrity on m-Polar Fuzzy Graphs and Its Application	Mathematics	10.3390/math11061398
95	Rajagopal, M., Buradagunta, S., Almeshari, M., Alzamil, Y., Ramalingam, R., Ravi, V.	An Efficient Framework to Detect Intracranial Hemorrhage Using Hybrid Deep Neural Networks	Brain Sciences	10.3390/brainsci13030400
96	Sekhar, M.C., Kumar, N.S., Asif, M., Vattikuti, S.V.P., Shim, J.	Enhancing Electrochemical Performance with g-C <sub>3</sub> N <sub>4</sub> /CeO <sub>2</sub> Binary Electrode Material	Molecules	10.3390/molecules28062489
97	Adarsh, A., Pathak, S., Chauhan, D.S., Kumar, B.	Low-latency and High-Reliability FBMC Modulation scheme using Optimized Filter design for enabling NextG Real-time Smart Healthcare Applications	Journal of Supercomputing	10.1007/s11227-022-04799-4
98	Nallabala, N.K.R., Kushvaha, S.S., Kumari, A., Singh, V.R., Verma, V.K., Kaleemulla, S., Singh, L.P., Jilani, S.A.K., Vattikuti, S.V.P., Bakash, K.R., Sambasivam, S., Shim, J.	Self-powered and improved photoresponsive broadband photodetecting sensors using Au/NiFe <sub>2</sub> O <sub>4</sub> /p-Si heterojunction architecture	Materials Science in Semiconductor Processing	10.1016/j.mssp.2022.107266
99	Borah, J., Sheikh, T.A., Bora, J.	Dynamic cell sleeping mechanism: An energy-efficient approach for Mobile 5G HetCN	International Journal of Communication Systems	10.1002/dac.5422
100	Lee, J., Kwak, Y.-S., Eswaraiyah, S., Kam, H., Kim, Y.H., Lee, C., Kim, J.-H.	Observational Evidence of Nonlinear Wave-Wave Interaction Over Antarctic MLT Region	Journal of Geophysical Research: Space Physics	10.1029/2022JA030738
101	Rajeswari, M., Ramalingam, R., Basheer, S., Babu, K.S., Rashid, M., Saranya, R.	Multi-Objective ABC-NM Algorithm for Multi-Dimensional Combinatorial Optimization Problem	Axioms	10.3390/axioms12040395
102	Jena, R., Chandrakanta, K., Singh, A.K.	Investigation of dielectric, impedance, and magnetodielectric behavior in Bi <sub>5</sub> Ti <sub>3</sub> FeO <sub>15</sub> -Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> composites prepared by sol-gel modified method	International Journal of Materials Research	10.1515/ijmr-2022-0035
103	Chandrakanta, K., Jena, R., Singh, A.K.	Temperature and magnetic field controlled dielectric relaxation and magnetodielectric response in KBiFe <sub>1.9</sub> Co <sub>0.1</sub> O <sub>5</sub> polycrystalline	International Journal of Materials Research	10.1515/ijmr-2022-0076
104	Khan, N., Saif, M., Usman, T.	Evaluation of Norm of (p, q)-Bernstein Operators	Mathematica Slovaca	10.1515/ms-2023-0034
105	Sahoo, B., Mehar, K., Sahoo, B., Sharma, N., Panda, S.K.	Thermal post-buckling analysis of graded sandwich curved structures under variable thermal loadings	Engineering with Computers	10.1007/s00366-021-01514-4

S.No.	Authors	Title	Source Title	DOI
106	Tiwari, R.N., Kaim, V., Singh, P., Khan, T., Kanaujia, B.K.	Semi-Flexible Diversified Circularly Polarized Millimeter-Wave MIMO Antenna for Wearable Biotechnologies	IEEE Transactions on Antennas and Propagation	10.1109/TAP.2023.3255507
107	Praveena, N., Juneja, K., Rashid, M., Almagrabi, A.O., Sekaran, K., Ramalingam, R., Usman, M.	Hybrid gated recurrent unit and convolutional neural network-based deep learning mechanism for efficient shilling attack detection in social networks	Computers and Electrical Engineering	10.1016/j.compeleceng.2023.108673
108	Aurtherson, P.B., Nalla, B.T., Srinivasan, K., Mehar, K., Devarajan, Y.	Biofuel production from novel Prunus domestica kernel oil: process optimization technique	Biomass Conversion and Biorefinery	10.1007/s13399-021-01551-5
109	Pattanayak, S., Loha, C., Kumar Singh, R., Saha, D.	Experimental investigation of thermal performance, kinetic triplets, and synergistic effect for bamboo-waste plastic (PP & PE) blends using thermogravimetric analyser in N <sub>2</sub> atmosphere	Sustainable Energy Technologies and Assessments	10.1016/j.seta.2023.103266
110	Roy, S., Tripathy, N., Pradhan, D., Sahu, P.K., Kar, J.P.	Investigation of Switching Behavior of ZnO/TiO <sub>2</sub> Multilayer Configurations	Journal of Electronic Materials	10.1007/s11664-023-10383-0
111	Bommireddy, P.R., Karnam, J.B., M, C.S., Park, S.-H.	Ni-Co PBA-decorated CNTs as battery-type cathode materials for potassium-ion hybrid capacitors	Journal of Energy Storage	10.1016/j.est.2023.106870
112	Saravanan, D., Rajakumar, R., Sreedevi, M., Dinesh, K., Sudha, S.V., Anguraj, D.K., Mubarakali, A.	Multi-objective swarm-based model for deploying virtual machines on cloud physical servers	Distributed and Parallel Databases	10.1007/s10619-021-07341-2
113	Sivalingam, V., Zhou, Q., Selvam, B., Sun, J., Pandiyan, K., Gupta, M.K., Korkmaz, M.E.	A mathematical approach of evaluating sustainability indicators in milling of aluminium hybrid composite by different eco-friendly cooling strategies	Sustainable Materials and Technologies	10.1016/j.susmat.2023.e00605
114	Pattanayak, S., Loha, C.	Investigation of kinetic triplets and thermodynamic parameters of different species of bamboo-biomass from North-East India	International Journal of Chemical Kinetics	10.1002/kin.21639
115	Rath, A., Mohapatra, S.R., Singh, A.K., Kaushik, S.D., Dhara, S., Chandrakant, K., Jena, R., Mohanty, H.S., Tripathy, S.N.	Substantial enhancement in magnetic and magnetodielectric properties of 0.7(Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> )-0.3(La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> ) composite	Journal of Magnetism and Magnetic Materials	10.1016/j.jmmm.2023.170813

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
116	Narasimha Murthy, K.V., Amaranatha Reddy, T., Vijaya Kumar, K.	Retraction Note: A UCM Approach for Forecasting the Seasonal Rainfall Patterns in Coastal Andhra Pradesh, India 1901–2017(Pure Appl. Geophys., (2020), 177, (5551–5565), 10.1007/s00024-019-02236-x)	Pure and Applied Geophysics	10.1007/s00024-023-03263-5
117	Krishna, R., Colak, I.	Advances in Biomedical Applications of Raman Microscopy and Data Processing: A Mini Review	Analytical Letters	10.1080/00032719.2022.209439 1
118	Nagappan, S., Duraivel, M., Elayappan, V., Muthuchamy, N., Mohan, B., Dhakshinamoorthy, A., Prabakar, K., Lee, J.-M., Park, K.H.	Metal–Organic Frameworks-Based Cathode Materials for Energy Storage Applications: A Review	Energy Technology	10.1002/ente.202201200
119	Savari, G.F., Sathik, M.J., Raman, L.A., El-Shahat, A., Hasanien, H.M., Almakhles, D., Abdel Aleem, S.H.E., Omar, A.I.	Assessment of charging technologies, infrastructure and charging station recommendation schemes of electric vehicles: A review	Ain Shams Engineering Journal	10.1016/j.asej.2022.101938

## List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2021-22

S.No.	Authors	Title	Source Title	DOI
1	Karunanidhy D., Ramalingam R., Dumka A., Singh R., Alsukayti I., Anand D., Hamam H., Ibrahim M.	An intelligent optimized route-discovery model for iot-based vanets	Processes	10.3390/pr9122171
2	Phadatare H.P., Pratiher B.	Nonlinear dynamics and chaos of a multi-disk rotating shaft undergoing large deflection mounted on a moving support	International Journal of Non-Linear Mechanics	10.1016/j.ijnonlinmec.2021.103819
3	Babukarthik R.G., Dhasarathan C., Kumar M., Shankar A., Thakur S., Cheng X.	A novel approach for multi-constraints knapsack problem using cluster particle swarm optimization	Computers and Electrical Engineering	10.1016/j.compeleceng.2021.107399
4	Sharanya V., Padmavati B.S., Raja Sekhar G.P.	Transient Stokes flow past a spherical droplet with a stagnant cap due to contaminated surfactant layer	Theoretical and Computational Fluid Dynamics	10.1007/s00162-021-00592-w
5	Abdul Ghaffar A.R., Nadeem M.R., Hasan M.G.	Cost-benefit analysis of shale development in India: A best-worst method based MCDM approach	Journal of King Saud University - Science	10.1016/j.jksus.2021.101591
6	Muhiuddin G., Al-Kadi D., Mahboob A., Aljohani A.	Generalized Fuzzy Ideals of BCI-Algebras Based on Interval Valued m-Polar Fuzzy Structures	International Journal of Computational Intelligence Systems	10.1007/s44196-021-00006-z
7	Mehar K., Mishra P.K., Panda S.K.	Thermal Post-Buckling Strength Prediction and Improvement of Shape Memory Alloy Bonded Carbon Nanotube-Reinforced Shallow Shell Panel: A Nonlinear Finite Element Micromechanical Approach	Journal of Pressure Vessel Technology, Transactions of the ASME	10.1115/1.4050934
8	Rajput S.S., Gangopadhyay S., Cavaleiro A., AL-Rjoub A., Kumar C.S., Fernandes F.	Influence of Ag additions on the structure, mechanical properties and oxidation behaviour of CrAlNAg coatings deposited by sputtering	Surface and Coatings Technology	10.1016/j.surfcoat.2021.127767
9	Zade N.P., Bhosale A., Dhir P.K., Sarkar P., Davis R.	Variability of Mechanical Properties of Cellular Lightweight Concrete Infill and Its Effect on Seismic Safety	Natural Hazards Review	10.1061/(ASCE)NH.1527-6996.0000501
10	Ahmad N., Hasan M.G., Barbhuiya R.K.	Identification and prioritization of strategies to tackle COVID-19 outbreak: A group-BWM based MCDM approach	Applied Soft Computing	10.1016/j.asoc.2021.107642
11	Ustun T.S., Farooq S.M., Hussain S.M.S.	Initialization Vector for application of IEC 61850-90-5 security features on R-GOOSE and R-SV messages	International Journal of Electrical Power and Energy Systems	10.1016/j.ijepes.2021.107189
12	De S., Acharya S., Sahoo S., Nayak G.C.	Current trends in MXene research: Properties and applications	Materials Chemistry Frontiers	10.1039/d1qm00556a

S.No.	Authors	Title	Source Title	DOI
13	Mishra B.P., Barik M.	Free flexural vibration of thin stiffened plates using NURBS-Augmented finite element method	Structures	10.1016/j.istruc.2021.05.018
14	Madhavi K., Prasad V.R., Gaffar S.A.	Darcy flow of polymer from an inclined plane with convective heat transfer analysis: a numerical study	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-020-09942-y
15	Dawn R., Zzaman M., Bharadwaj R.R., Kiran C., Shahid R., Verma V.K., Sahoo S.K., Amemiya K., Singh V.R.	Direct evidence to control the magnetization in Fe <sub>3</sub> O <sub>4</sub> thin films by N <sub>2</sub> ion implantation: a soft X-ray magnetic circular dichroism study	Journal of Sol-Gel Science and Technology	10.1007/s10971-021-05606-x
16	Ramkumar K., Ananthi N., Brabin D.R.D., Goswami P., Baskar M., Bhatia K.K., Kumar H.	Efficient routing mechanism for neighbour selection using fuzzy logic in wireless sensor network	Computers and Electrical Engineering	10.1016/j.compeleceng.2021.107365
17	Sheikh T.A., Bora J., Hussain M.A.	Sum-Rate Improvement in Massive MIMO System with User Grouping and Selection, and Antenna Scheduling Scheme	Wireless Personal Communications	10.1007/s11277-021-08503-2
18	Rajakumar R., Sekaran K., Hsu C.-H., Kadry S.	Accelerated grey wolf optimization for global optimization problems	Technological Forecasting and Social Change	10.1016/j.techfore.2021.120824
19	Kumar R., Sahoo S., Tan W.K., Kawamura G., Matsuda A., Kar K.K.	Microwave-assisted thin reduced graphene oxide-cobalt oxide nanoparticles as hybrids for electrode materials in supercapacitor	Journal of Energy Storage	10.1016/j.est.2021.102724
20	Perumal A., Azhagurajan A., Kumar S.S., Prithvirajan R., Baskaran S., Rajkumar P.R., Kailasanathan C., Venkatesan G.	Influence of Optimization Techniques on Wire Electrical Discharge Machining of Ti-6Al-2Sn-4Zr-2Mo Alloy using Modeling Approach	Journal of Inorganic and Organometallic Polymers and Materials	10.1007/s10904-021-01953-y
21	Al Kaisy G.M.J., Mutalib M.I.A., Rao T.V.V.L.N., Senatore A.	Tribological performance of low viscosity halogen-free ammonium based protic ionic liquids with carboxylate anions as neat lubricants	Tribology International	10.1016/j.triboint.2021.107058
22	Gupta S.	Design of non-mapping code in spectral and special domain with variable weight and OFDM system	Optical and Quantum Electronics	10.1007/s11082-021-03004-9
23	Kumar B.P., Pillai D.S., Rajasekar N., Chakkarapani M., Ilango G.S.	Identification and Localization of Array Faults with Optimized Placement of Voltage Sensors in a PV System	IEEE Transactions on Industrial Electronics	10.1109/TIE.2020.2998750
24	Rajeswari M., Thirugnanasambandam K., Raghav R.S., Prabu U., Saravanan D., Anguraj D.K.	Flower Pollination Algorithm with Powell's Method for the Minimum Energy Broadcast Problem in Wireless Sensor Network	Wireless Personal Communications	10.1007/s11277-021-08253-1
25	Xiao-Pang, Vivekananda G.N., Khapre S.	Multimedia-based English teaching and practical system	Aggression and Violent Behavior	10.1016/j.avb.2021.101706



S.No.	Authors	Title	Source Title	DOI
26	Kamal M., Saini G., Abbas A., Prasad V.	Prediction and analysis of the cavitating performance of a Francis turbine under different loads	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	10.1080/15567036.2021.2009941
27	Ahmad P., Jin H., Alroobaea R., Qamar S., Zheng R., Alnajjar F., Aboudi F.	MH UNet: A multi-scale hierarchical based architecture for medical image segmentation	IEEE Access	10.1109/ACCESS.2021.3122543
28	Sahoo B., Mehar K., Sahoo B., Sharma N., Panda S.K.	Thermal post-buckling analysis of graded sandwich curved structures under variable thermal loadings	Engineering with Computers	10.1007/s00366-021-01514-4
29	Karunanidiy, D; Ramalingam, R; Dumka, A; Singh, R; Alsukayti, I; Anand, D; Hamam, H; Ibrahim, M	A New Type of Fuzzy Prime Subset in Ordered Somigroups	PROCESSES	10.3390/pr9122171
30	Mehar, K; Mishra, PK; Panda, SK	Users' In-Game Purchase Intention: The Effects of Flow Experience and Satisfaction	JOURNAL OF PRESSURE VESSEL TECHNOLOGY-TRANSACTIONS OF THE ASME	10.1115/1.4050934
31	Zade, NP; Bhosale, A; Dhir, PK; Sarkar, P; Davis, R	Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy (vol 122, pg 515, 2021)	NATURAL HAZARDS REVIEW	10.1061/(ASCE)NH.1527-6996.0000501
32	Babukarthik, RG; Dhasarathan, C; Kumar, M; Shankar, A; Thakur, S; Cheng, XC	A Survey on Role of Block Chain in Smart Cities	COMPUTERS & ELECTRICAL ENGINEERING	10.1016/j.compeleceng.2021.107399
33	Rajput, SS; Gangopadhyay, S; Cavaleiro, A; AL-Rjoub, A; Kumar, CS; Fernandes, F	Effectiveness of CFS web cleat bolted connections between beam-to-column	SURFACE & COATINGS TECHNOLOGY	10.1016/j.surfcoat.2021.127767
34	Chakraborty, D; Bej, S; Sahoo, S; Chongdar, S; Ghosh, A; Banerjee, P; Bhaumik, A	Onion-Ring-like Carbon and Nitrogen from ZIF-8 on TiO2/Fe2O3 Nanostructure for Overall Electrochemical Water Splitting	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	10.1021/acssuschemeng.1c04877
35	Phadatare, HP; Pratiher, B	Influence of Optimization Techniques on Wire Electrical Discharge Machining of Ti-6Al-2Sn-4Zr-2Mo Alloy using Modeling Approach	INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS	10.1016/j.ijnonlinmec.2021.103819
36	Sharanya, V; Padmavati, BS; Sekhar, GPR	DC sputter deposited TiO2 thin film on ITO/glass substrate for perovskite based solar cell application	THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS	10.1007/s00162-021-00592-w
37	Muhiuddin, G; Al-Kadi, D; Mahboob, A; Aljohani, A	Investigation of Cryogenically Treated Physical Vapor Deposition TiAlN/NbN-Coated Carbide Inserts in End Milling of Hard Titanium Alloy	INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS	10.1007/s44196-021-00006-z

S.No.	Authors	Title	Source Title	DOI
38	Ghaffar, ARA; Nadeem, MR; Hasan, MG	Pure Gamma-ideals in Gamma-semigroups	JOURNAL OF KING SAUD UNIVERSITY SCIENCE	10.1016/j.jksus.2021.101591
39	De, S; Acharya, S; Sahoo, S; Nayak, GC	Parametric optimization of face turning parameters for surface roughness on EN 31 material using RSM and Taguchi method	MATERIALS CHEMISTRY FRONTIERS	10.1039/d1qm00556a
40	Dawn, R; Zzaman, M; Bharadwaj, RR; Kiran, C; Shahid, R; Verma, VK; Sahoo, SK; Amemiya, K; Singh, VR	Flower Pollination Algorithm with Powell's Method for the Minimum Energy Broadcast Problem in Wireless Sensor Network	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	10.1007/s10971-021-05606-x
41	Ramkumar, K; Ananthi, N; Brabin, DRD; Goswami, P; Baskar, M; Bhatia, KK; Kumar, H	Modelling and forecasting for monthly surface air temperature patterns in India, 1951-2016: Structural time series approach	COMPUTERS & ELECTRICAL ENGINEERING	10.1016/j.compeleceng.2021.107365
42	Ahmad, N; Hasan, MG; Barbhuiya, RK	Modelling and simulation of sprinters' health promotion strategy based on sports biomechanics	APPLIED SOFT COMPUTING	10.1016/j.asoc.2021.107642
43	Gupta, S	Structural time-series modelling for seasonal surface air temperature patterns in India 1951-2016	OPTICAL AND QUANTUM ELECTRONICS	10.1007/s11082-021-03004-9
44	Kumar, BP; Pillai, DS; Rajasekar, N; Chakkarapani, M; Ilango, GS	Magneto-electro-elastic analysis of piezoelectric-flexoelectric nanobeams rested on silica aerogel foundation	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	10.1109/TIE.2020.2998750
45	Muhiuddin G., Mahboob A., Abughazalah N.	Generalized fuzzy ideals in ordered semirings	Complex and Intelligent Systems	10.1007/s40747-022-00758-x
46	Kale S., Latha N.K.H., Bramhane L.K.	Design and Proposal of Double Pocket Schottky Barrier TFET with Dielectric Modulation for Biosensors Applications	Silicon	10.1007/s12633-022-01840-2
47	Saha S., Das A.N.	Non-symmetric indentation of an elastic half-plane	Mathematics and Mechanics of Solids	10.1177/10812865211073978
48	Ji P., Li X., Jagota V., Sajja G.S.	Study on an Adaptive Harmonic Current Detection Method Based on Neural Network	Electrica	10.54614/electrica.2022.21172
49	Dhiman P., Henge S.K., Ramalingam R., Dumka A., Singh R., Gehlot A., Rashid M., Alshamrani S.S., Alghamdi A.S., Alshehri A.	Secure Token–Key Implications in an Enterprise Multi-Tenancy Environment Using BGV–EHC Hybrid Homomorphic Encryption	Electronics (Switzerland)	10.3390/electronics11131942
50	De S., Acharya S., Maity C.K., Sahoo S., Nayak G.C.	MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> )/Amine-Functionalized Graphene-Supported Self-Assembled Co <sub>9</sub> S <sub>8</sub> Nanoflower for Ultrastable Hybrid Supercapacitor	Industrial and Engineering Chemistry Research	10.1021/acs.iecr.2c00810

S.No.	Authors	Title	Source Title	DOI
51	Muhiuddin G., Al-Tahan M., Mahboob A., Hoskova-Mayerova S., Al-Kaseasbeh S.	Linear Diophantine Fuzzy Set Theory Applied to BCK/BCI-Algebras	Mathematics	10.3390/math10122138
52	Dua S., Kumar S.S., Albagory Y., Ramalingam R., Dumka A., Singh R., Rashid M., Gehlot A., Alshamrani S.S., Alghamdi A.S.	Developing a Speech Recognition System for Recognizing Tonal Speech Signals Using a Convolutional Neural Network	Applied Sciences (Switzerland)	10.3390/app12126223
53	Banerjee P., Roy A.B., Nandi A., Das S., Kundu A., Mukherjee S., Saha H., Hossain S.M.	Light-trapping scheme using silica spheres on ultrathin c-silicon absorber: transition from antireflection coating to whispering gallery resonator	Applied Physics A: Materials Science and Processing	10.1007/s00339-022-05591-0
54	Dawn R., Zzaman M., Faizal F., Kiran C., Kumari A., Shahid R., Panatarani C., Joni I.M., Verma V.K., Sahoo S.K., Amemiya K., Singh V.R.	Origin of Magnetization in Silica-coated Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Revealed by Soft X-ray Magnetic Circular Dichroism	Brazilian Journal of Physics	10.1007/s13538-022-01102-x
55	Hussain S.	Resolution-Selective and Resolution-Adaptive 2 to 8-Bit Flash ADC for High-Speed Application-Independent IC (HS-AIIC)	Journal of Circuits, Systems and Computers	10.1142/S0218126622501699
56	Nallabala N.K.R., Reddy V.R.M., Singh V.R., Rahim Bakash K., Kumar S., Saha D., Mahendran V., Kummara V.K., Guntupalli G.K., Vattikuti S.V.P.	Enhanced photoresponse performance in GaN based symmetric type MSM ultraviolet-A and MIS ultraviolet-A to C photodetectors	Sensors and Actuators A: Physical	10.1016/j.sna.2022.113502
57	Kumar S., Kurmi Y.	CNN-based denoising system for the image quality enhancement	Multimedia Tools and Applications	10.1007/s11042-022-12406-0
58	Kumar R., Sahoo S., Joanni E., Singh R.K., Kar K.K.	Microwave as a Tool for Synthesis of Carbon-Based Electrodes for Energy Storage	ACS Applied Materials and Interfaces	10.1021/acsami.1c15934
59	Anandkumar R., K D., Obaid A.J., Malik P., Sharma R., Dumka A., Singh R., Khatak S.	Securing e-Health application of cloud computing using hyperchaotic image encryption framework	Computers and Electrical Engineering	10.1016/j.compeleceng.2022.107860
60	Hussain I., Sahoo S., Sayed M.S., Ahmad M., Sufyan Javed M., Lamiel C., Li Y., Shim J.-J., Ma X., Zhang K.	Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance	Coordination Chemistry Reviews	10.1016/j.ccr.2022.214429
61	Natesamurthi C., Kumaresan V., Christopher S., Raghavan K.S., Senthilkumaar J.S.	Thermal performance enhancement of compound parabolic concentrator solar collector using latent heat thermal energy storage	Environmental Progress and Sustainable Energy	10.1002/ep.13765

S.No.	Authors	Title	Source Title	DOI
62	Netalkar P.P., Maithreye S.R., Karuna Y.M., Natarajan S., Gadipelly T., Bhat P D., Dasgupta A., Lewis A.	Effect of nano-hydroxyapatite incorporation on fluoride releasing ability, penetration, and adaptation of a pit and fissure sealant	International Journal of Paediatric Dentistry	10.1111/ipd.12890
63	Tiwari R., Deshmukh S.	Handover Count Based MAP Estimation of Velocity With Prior Distribution Approximated via NGSIM Data Set	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2020.3043888
64	Bommireddy P.R., Chandra Sekhar M., Lee Y.-W., Kumar M., Suh Y., Park S.-H.	Binder-free Co–Ni hexacyanoferrate as a battery-type electrode material for hybrid supercapacitors	Ceramics International	10.1016/j.ceramint.2022.01.055
65	Pantula M., Kuppusamy K.S.	A Machine Learning-Based Model to Evaluate Readability and Assess Grade Level for the Web Pages	Computer Journal	10.1093/comjnl/bxaa113
66	Thurai Raaj V.B., Gorantla S.R., Karunanidly D., Dumka A., Singh R., Rashid M., Albagory Y., Alshamrani S.S.	Dual Battery Storage Technique for Remote, Location-Based Solar PV System and Standalone Applications	Energies	10.3390/en15082748
67	Maji A., Deshamukhya T., Choubey G., Choubey A.	Correction to: Performance evaluation of perforated pin fin heat sink using particle swarm optimization and MCDM techniques (Journal of Thermal Analysis and Calorimetry, (2022), 147, 8, (5133-5150), 10.1007/s10973-021-10872-6)	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-021-10937-6
68	Maji A., Deshamukhya T., Choubey G., Choubey A.	Performance evaluation of perforated pin fin heat sink using particle swarm optimization and MCDM techniques	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-021-10872-6
69	Kumar R., Patbhaje U., Kumar A.	An efficient technique for image compression and quality retrieval using matrix completion	Journal of King Saud University - Computer and Information Sciences	10.1016/j.jksuci.2019.08.002
70	Gupta S.K., Goel A.	Design and analysis of three-dimensional m-sequence bipolar OCDMA spectral amplitude code	Optical and Quantum Electronics	10.1007/s11082-022-03529-7
71	Karunanidly D., Ramalingam S., Dumka A., Singh R., Rashid M., Gehlot A., Alshamrani S.S., Alghamdi A.S.	JMA: Nature-Inspired Java Macaque Algorithm for Optimization Problem	Mathematics	10.3390/math10050688
72	Tripathi D., Shukla A.K., Reddy B.R., Bopche G.S., Chandramohan D.	Credit Scoring Models Using Ensemble Learning and Classification Approaches: A Comprehensive Survey	Wireless Personal Communications	10.1007/s11277-021-09158-9

S.No.	Authors	Title	Source Title	DOI
73	Mahapatro S.R., Subudhi B.	A Robust Stability Region-Based Decentralized PI Controller for a Multivariable Liquid Level System	IEEE Systems Journal	10.1109/JSYST.2021.3079293
74	Raghavendra H., Suryanarayana Raju P., Hemachandra Reddy K.	Effect of Geometric and Operational Parameters on the Performance of a Beta-Type Stirling Engine: A Numerical Study	Iranian Journal of Science and Technology - Transactions of Mechanical Engineering	10.1007/s40997-020-00406-0
75	Kumari A., Kumar A., Dawn R., Franklin J.B., Vinjamuri R., Sahoo S.K., Goutam U.K., Verma V.K., Meena R., Kandasami A., Mahapatra S., Kumar K., Kumar A., Singh V.R.	Valence band structure of Cr doped VO <sub>2</sub> thin films: A resonant photoelectron spectroscopy study	Journal of Alloys and Compounds	10.1016/j.jallcom.2021.162620
76	Jena S., Zzaman M., Verma V.K., Ishigami K., Shibata G., Ishikawa T., Li G.F., Yamamoto M., Shahid R., Koide T., Fujimori A., Singh V.R.	Thickness-dependent electronic and magnetic states of Mn and Co atoms at Mn-rich Co <sub>2</sub> Mn <sub>1.20</sub> Ge <sub>0.38</sub> /MgO interfaces via soft x-ray magnetic circular dichroism	Physica B: Condensed Matter	10.1016/j.physb.2021.413619
77	Reddy Nallabala N.K., Vattikuti S.V.P., Verma V.K., Singh V.R., Alhammedi S., Kummara V.K., Manjunath V., Dhanalakshmi M., Minnam Reddy V.R.	Highly sensitive and cost-effective metal-semiconductor-metal asymmetric type Schottky metallization based ultraviolet photodetecting sensors fabricated on n-type GaN	Materials Science in Semiconductor Processing	10.1016/j.mssp.2021.106297
78	Hasan M.G., Ashraf Z., Khan M.F.	Multi-choice best-worst multi-criteria decision-making method and its applications	International Journal of Intelligent Systems	10.1002/int.22663
79	Kale S., Chandu M.S.	Dual Metal Gate Dielectric Engineered Dopant Segregated Schottky Barrier MOSFET With Reduction in Ambipolar Current	Silicon	10.1007/s12633-020-00921-4
80	Al-Amin M., Abdul-Rani A.M., Rao T.V.V.L.N., Danish M., Rubaiee S., Mahfouz A.B., Parameswari R.P., Wani M.F.	Investigation of machining and modified surface features of 316L steel through novel hybrid of HA/CNT added-EDM process	Materials Chemistry and Physics	10.1016/j.matchemphys.2021.125320
81	Paul A., Deshamukhya T., Pal J.	Investigation and utilization of Indian peat in the energy industry with optimal site-selection using Analytic Hierarchy Process: A case study in North-Eastern India	Energy	10.1016/j.energy.2021.122169
82	Ramirez-Asis E., Bhanot A., Jagota V., Chandra B., Hossain M.S., Pant K., Almashaqbeh H.A.	Smart Logistic System for Enhancing the Farmer-Customer Corridor in Smart Agriculture Sector Using Artificial Intelligence	Journal of Food Quality	10.1155/2022/7486974

S.No.	Authors	Title	Source Title	DOI
83	Rosaline I., Kumar A., Upadhyay P., Murshed A.H.	Four Element MIMO Antenna Systems with Decoupling Lines for High-Speed 5G Wireless Data Communication	International Journal of Antennas and Propagation	10.1155/2022/9078929
84	Ding N., Prabhakar P., Khosla A., Jagota V., Ramirez-Asis E., Singh B.K.	Application of Fuzzy Immune Algorithm and Soft Computing in the Design of 2-DOF PID Controller	Discrete Dynamics in Nature and Society	10.1155/2022/5608054
85	Singh A., Vaidya G., Jagota V., Darko D.A., Agarwal R.K., Debnath S., Potrich E.	Recent Advancement in Postharvest Loss Mitigation and Quality Management of Fruits and Vegetables Using Machine Learning Frameworks	Journal of Food Quality	10.1155/2022/6447282
86	Chinnasamy S., Naveen J., Alphonse P.J.A., Dhasarathan C., Sambasivam G.	Energy-Aware Multilevel Clustering Scheme for Underwater Wireless Sensor Networks	IEEE Access	10.1109/ACCESS.2022.3177722
87	Muhiuddin G., Al-Kadi D., Mahboob A., Assiry A., Alsubhi A.	Generalizations of Fuzzy q-Ideals of BCI -Algebras	Journal of Mathematics	10.1155/2022/2388199
88	Muhiuddin G., Alanazi A.M., Mahboob A., Alkhaldi A.H., Alatwai W.	A Novel Study of Graphs Based on m-Polar Cubic Structures	Journal of Function Spaces	10.1155/2022/2643575
89	Malik A., Vaidya G., Jagota V., Eswaran S., Sirohi A., Batra I., Rakhra M., Asenso E.	Design and Evaluation of a Hybrid Technique for Detecting Sunflower Leaf Disease Using Deep Learning Approach	Journal of Food Quality	10.1155/2022/9211700
90	Shankar A., Dayalan R., Chakraborty C., Dhasarathan C., Kumar M.	A modified social spider algorithm for an efficient data dissemination in VANET	Environment, Development and Sustainability	10.1007/s10668-021-01994-w
91	Shankernath V., Naidu K.L., Krishna M.G., Padmanabhan K.A.	Growth and properties of nanocrystalline TiN—amorphous Si <sub>3</sub> N <sub>4</sub> composite thin films deposited on IN718 and phynox alloy substrates	Applied Physics A: Materials Science and Processing	10.1007/s00339-021-05186-1
92	Nidhya R., Kumar M., Shankar A., Mala S., Thakur S., Cheng X.	Remodeled chaotic compressive sensing scheme for secure and energy-efficient data forwarding in body-to-body network	Computers and Electrical Engineering	10.1016/j.compeleceng.2021.107633
93	Karthik C., Nagamani G., Subramaniyam R., Dafik	Robust stabilization of T-S fuzzy systems via improved integral inequality	Soft Computing	10.1007/s00500-021-06544-0
94	Sivaiah P., Singh M., Chengal Reddy V., Meghashyam P.	Processing of 17-4 PH steel in turning operation with hybrid textured tools	Materials and Manufacturing Processes	10.1080/10426914.2021.2001503
95	Talukdar B., Kumar D., Hoque S., Arif W.	Estimation based cyclostationary detection for energy harvesting cooperative cognitive radio network	Telecommunication Systems	10.1007/s11235-021-00846-2
96	Sivaiah P., Singh M.M., Chengal Reddy V.	Effect of single and hybrid pattern textured tools on turning process performance	Materials and Manufacturing Processes	10.1080/10426914.2021.2001511

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
97	Subramanian K., Ramasubramanian S., Selvam B., Rajaram P.	Investigations on effectiveness of transfer layer on specific wear rate and coefficient of friction during dry sliding of hybrid polymer matrix composites	Polymer Composites	10.1002/pc.26371
98	Shwetha G., Chandra S., Chandra Shekar N.V., Kalavathi S.	Existence of spin-polarized Dirac cone in Sc <sub>2</sub> CrB <sub>6</sub> : A DFT study	Physica B: Condensed Matter	10.1016/j.physb.2021.413369
99	Sivaiah P., Venkata Ajay kumar G., Lakshmi Narasimhamu K., Siva Balaji N.	Performance improvement of turning operation during processing of AISI 304 with novel textured tools under minimum quantity lubrication using hybrid optimization technique	Materials and Manufacturing Processes	10.1080/10426914.2021.1967977
100	Hussain S.M.S., Farooq S.M., Ustun T.S.	A Security Mechanism for IEEE C37.118.2 PMU Communication	IEEE Transactions on Industrial Electronics	10.1109/TIE.2021.3053897
101	David C., A K., Thangavelu A.	Degradation of distillery effluent by twisted-type Iron electrodes: experimental with ANN approach	International Journal of Environmental Analytical Chemistry	10.1080/03067319.2020.1807532
102	Agarwal N.K., Sadhu P.K., Chakraborty S.	MPPT Based PMSG Wind Turbine System Using Sliding Model Control (SMC) and Artificial Neural Network (ANN) Based Regression Analysis	IETE Journal of Research	10.1080/03772063.2019.1662336
103	Bhattacharya A., Roy B., Chowdhury S.K., Bhattacharjee A.K.	An Isolation Enhanced, Printed, Low-Profile UWB-MIMO Antenna with Unique Dual Band-Notching Features for WLAN and WiMAX	IETE Journal of Research	10.1080/03772063.2019.1612284
104	Mishra M.	LDPC Codes and Digital Forensics—A Perspective Approach	IETE Journal of Research	10.1080/03772063.2019.1604170
105	Ji, PX; Li, XW; Jagota, V; Sajja, GS	Topological Analysis of Epicyclic Gear Trains-Symmetry and Redundancy	ELECTRICA	10.54614/electrica.2022.21172

## List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2020-21

S.No.	Authors	Title	Source Title	DOI
1	Ghahremani A.H., Pishgar S., Bahadur J., Druffel T.	Intense Pulse Light Annealing of Perovskite Photovoltaics Using Gradient Flashes	ACS Applied Energy Materials	10.1021/acsaem.0c01520
2	Sivaiah P., Singh M M., Venkatesu S., Yoganjaneyulu G.	Investigation on turning process performance using hybrid-textured tools under dry and conventional cooling environment	Materials and Manufacturing Processes	10.1080/10426914.2020.1813893
3	Pradeep Kumar B., Nitheesh R., Chakkarapani M., Saravana Ilango G., Nagamani C.	Estimation of PV module degradation through extraction of I-V curve at inverter pre-startup condition	IET Renewable Power Generation	10.1049/iet-rpg.2020.0316
4	Pal R., Gupta N., Prakash A., Tripathi R., Rodrigues J.J.P.C.	Deep reinforcement learning based optimal channel selection for cognitive radio vehicular ad-hoc network	IET Communications	10.1049/iet-com.2020.0451
5	Mehar K., Panda S.K., Dewangan H.C.	Multiscale finite element prediction of thermomechanical flexural strength of nanotube-reinforced hybrid smart composite panel bonded with SMA fibre	Structures	10.1016/j.istruc.2020.10.049
6	Munuswamy D.B., Devarajan Y., Babu M.N., Ramalingam S.	Experimental investigation on lowering the environmental hazards and improving the performance patterns of solar flat plate collectors by employing the internal longitudinal fins and nano additives	Environmental Science and Pollution Research	10.1007/s11356-020-10311-3
7	Devarajan Y., Choubey G., Mehar K.	Ignition analysis on neat alcohols and biodiesel blends propelled research compression ignition engine	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	10.1080/15567036.2019.1618998
8	Sivaiah P., Guru Prasad M., Singh M M., Uma B.	Machinability evaluation during machining of AISI 52100 steel with textured tools under Minimum Quantity Lubrication—A comparative study	Materials and Manufacturing Processes	10.1080/10426914.2020.1802034
9	Sahoo B., Sahoo B., Sharma N., Mehar K., Panda S.K.	Numerical buckling temperature prediction of graded sandwich panel using higher order shear deformation theory under variable temperature loading	Smart Structures and Systems	10.12989/sss.2020.26.5.641
10	Sivaiah P., Chakradhar D.	Identifying the effectiveness of manner of cryogenic coolant supply in different cryogenic cooling techniques in turning process—a review	Machining Science and Technology	10.1080/10910344.2020.1815039



<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
11	Nidhya R., Kumar M., V. Ravi R., Deepak V.	Enhanced Route Selection (ERS) algorithm for IoT enabled smart waste management system	Environmental Technology and Innovation	10.1016/j.eti.2020.101116
12	Li J., Tao H., Shuhong L., Salih S.Q., Zain J.M., Yankun L., Vivekananda G.N., Thanjaivadel M.	Internet of things assisted condition-based support for smart manufacturing industry using learning technique	Computational Intelligence	10.1111/coin.12319
13	Devarajan Y., Munuswamy D., Nagappan B., Choubey G.	Study on the effect on combining long-chain additive with neat bio-diesel fueled engine to examine its ignition characteristics	Fuel	10.1016/j.fuel.2020.118400
14	Latha N.K.H., Kale S.	Dielectric Modulated Schottky Barrier TFET for the Application as Label-Free Biosensor	Silicon	10.1007/s12633-019-00363-7
15	Narasimha Murthy K.V., Amaranatha Reddy T., Vijaya Kumar K.	A UCM Approach for Forecasting the Seasonal Rainfall Patterns in Coastal Andhra Pradesh, India 1901–2017	Pure and Applied Geophysics	10.1007/s00024-019-02236-x
16	Choubey G., Yuvarajan D., Huang W., Shafee A., Pandey K.M.	Recent research progress on transverse injection technique for scramjet applications-a brief review	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2020.07.098
17	Devaki P., Rao A.S., Sharma R.P., Sreenadh S.	Impact of hematocrit on the flow of Casson fluid in contact with Jeffery fluid over a narrow pipe	Indian Journal of Pure and Applied Physics	
18	Kumar A., Ram S., Al-Hasan M.	Online spotlight: A planar cavity-backed self-triplexing slot antenna for planar integration	Microwave Journal	
19	Mahapatro S.R., Subudhi B.	A Robust Decentralized PID Controller Based on Complementary Sensitivity Function for a Multivariable System	IEEE Transactions on Circuits and Systems II: Express Briefs	10.1109/TCSII.2019.2943382
20	Sinha S., Nandi D.K., Pawar P.S., Kim S.-H., Heo J.	A review on atomic layer deposited buffer layers for Cu(In,Ga)Se <sub>2</sub> (CIGS) thin film solar cells: Past, present, and future	Solar Energy	10.1016/j.solener.2020.09.022
21	Akbar M.A., Shameem M., Mahmood S., Alsanad A., Gumaei A.	Prioritization based Taxonomy of Cloud-based Outsource Software Development Challenges: Fuzzy AHP analysis	Applied Soft Computing Journal	10.1016/j.asoc.2020.106557
22	Katariya P.V., Mehar K., Panda S.K.	Nonlinear dynamic responses of layered skew sandwich composite structure and experimental validation	International Journal of Non-Linear Mechanics	10.1016/j.ijnonlinmec.2020.103527

S.No.	Authors	Title	Source Title	DOI
23	Nallabala N.K.R., Godavarthi S., Kummara V.K., Kesarla M.K., Saha D., Akkera H.S., Guntupalli G.K., Kumar S., Vattikuti S.V.P.	Structural, optical and photoresponse characteristics of metal-insulator-semiconductor (MIS) type Au/Ni/CeO <sub>2</sub> /GaN Schottky barrier ultraviolet photodetector	Materials Science in Semiconductor Processing	10.1016/j.mssp.2020.105190
24	Devarajan Y., Nagappan B., Mageshwaran G., Sunil Kumar M., Durairaj R.B.	Feasibility study of employing diverse antioxidants as an additive in research diesel engine running with diesel-biodiesel blends	Fuel	10.1016/j.fuel.2020.118161
25	Kumar R., Sahoo S., Joanni E., Singh R.K., Maegawa K., Tan W.K., Kawamura G., Kar K.K., Matsuda A.	Heteroatom doped graphene engineering for energy storage and conversion	Materials Today	10.1016/j.mattod.2020.04.010
26	Kuppusamy P., Venkatraman S., Rishikeshan C.A., Padmanabha Reddy Y.C.A.	Deep learning based energy efficient optimal timetable rescheduling model for intelligent metro transportation systems	Physical Communication	10.1016/j.phycom.2020.101131
27	Akbar M.A., Mahmood S., Huang Z., Khan A.A., Shameem M.	Readiness model for requirements change management in global software development	Journal of Software: Evolution and Process	10.1002/smr.2264
28	Khan A.A., Shameem M.	Multicriteria decision-making taxonomy for DevOps challenging factors using analytical hierarchy process	Journal of Software: Evolution and Process	10.1002/smr.2263
29	Arun I., Yuvaraj C., Jyothibabu P., Sekhar Reddy G.C.	Influence of Silica on Microstructural Modification of Electrical Discharge Composite Coating and its Wear Performance	Silicon	10.1007/s12633-019-00333-z
30	Hoque S., Arif W., Sen D.	Assessment of Spectrum Handoff Performance in Cognitive Radio Cellular Networks	IEEE Wireless Communications Letters	10.1109/LWC.2020.2992066
31	Baral A., Das G., Roy A.B., Kole A., Mukherjee N., Bose S.	Stacked Back Reflector Architecture for Advanced Optical Management in State-of-the-Art Single-Junction $\mu$ c-Si:H Solar Cells	IEEE Journal of Photovoltaics	10.1109/JPHOTOV.2020.3008263
32	Priya A.V., Srivastava A.K., Arun V.	Hybrid Optimal Energy Management for Clustering in Wireless Sensor Network	Computers and Electrical Engineering	10.1016/j.compeleceng.2020.106708
33	Sangeetha V., Gopinath D., Prithivirajan R., Girish Chandran V., Manoj Kumar R.	Investigating the mechanical, thermal and melt flow index properties of HNTs – LLDPE nano composites for the applications of rotational moulding	Polymer Testing	10.1016/j.polymertesting.2020.106595

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
34	Shameem M., Khan A.A., Gulzarul Hasan M., Akbar M.A.	Analytic hierarchy process based prioritisation and taxonomy of success factors for scaling agile methods in global software development	IET Software	10.1049/iet-sen.2019.0196
35	Penthia T., Panda A.K., Mohanty P.R., Patnaik N.	Superconducting magnetic energy storage system with an improved nonlinear control approach for pulsed power applications	International Transactions on Electrical Energy Systems	10.1002/2050-7038.12464
36	Devarajan Y., Munuswamy D., Nagappan B., Ganesan S.	Detailed study on the effect of different ignition enhancers in the binary blends of diesel/biodiesel as a possible substitute for unaltered compression ignition engine	Petroleum Science	10.1007/s12182-020-00463-9
37	Sivalingam V., Zan Z., Sun J., Selvam B., Gupta M.K., Jamil M., Mia M.	Wear behaviour of whisker-reinforced ceramic tools in the turning of Inconel 718 assisted by an atomized spray of solid lubricants	Tribology International	10.1016/j.triboint.2020.106235
38	Jee A., Hoque S., Arif W.	Performance analysis of secondary users under heterogeneous licensed spectrum environment in cognitive radio ad hoc networks	Annales des Telecommunications/Annals of Telecommunications	10.1007/s12243-020-00761-8
39	Acharya S., Sahoo S., Sonal S., Lee J.H., Mishra B.K., Nayak G.C.	Adsorbed Cr(VI) based activated carbon/polyaniline nanocomposite: A superior electrode material for asymmetric supercapacitor device	Composites Part B: Engineering	10.1016/j.compositesb.2020.107913
40	Bhosale A., Zade N.P., Sarkar P., Davis R.	Mechanical and physical properties of cellular lightweight concrete block masonry	Construction and Building Materials	10.1016/j.conbuildmat.2020.118621
41	Ahmad N., Sethi S., Ahmed M.	Cache-Aware Query-Broadcast to Improve QoS of Routing Protocols in MANETs	Wireless Personal Communications	10.1007/s11277-020-07225-1
42	Kummara V.K., Neelima G., Ravi N., Nanda Kumar Reddy N., Satish Kumar Reddy H., Dwaraka Viswanath C.S., Lenine D., Surekha G., Padma Suvarna R., Yuvaraj C., Venkatramu V.	Near infrared broadband and visible upconversion emissions of erbium ions in oxyfluoride glasses for optical amplifier applications	Optics and Laser Technology	10.1016/j.optlastec.2020.106167
43	Bag A., Subudhi B., Ray P.K.	An Adaptive Variable Leaky Least Mean Square Control Scheme for Grid Integration of a PV System	IEEE Transactions on Sustainable Energy	10.1109/TSTE.2019.2929551

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
44	Devarajan Y., Choubey G., Sellappan S., Muniraj S.K., Pillai B.D.P.	Emission study on the effect of ignition improver in diesel fueled engine	Petroleum Science and Technology	10.1080/10916466.2020.1781169
45	Muhiuddin G., Al-Kadi D., Mahboob A.	Hybrid structures applied to ideals in BCI-algebras	Journal of Mathematics	10.1155/2020/2365078
46	Muhiuddin G., Alanazi A.M., Mahboob A., Al-Kadi D.	Generalized Hesitant Fuzzy Ideals in Semigroups	Journal of Mathematics	10.1155/2020/8856287
47	Babukarthik R.G., Ananth Krishna Adiga V., Sambasivam G., Chandramohan D., Amudhavel A.J.	Prediction of covid-19 using genetic deep learning convolutional neural network (GDCNN)	IEEE Access	10.1109/ACCESS.2020.3025164
48	Farooq S.M., Suhail Hussain S.M., Ustun T.S., Iqbal A.	Using ID-Based Authentication and Key Agreement Mechanism for Securing Communication in Advanced Metering Infrastructure	IEEE Access	10.1109/ACCESS.2020.3038813
49	Venkatadri K., Anwar Béğ O., Rajarajeswari P., Ramachandra Prasad V., Subbarao A., Hidayathulla Khan B.Md.	Numerical simulation and energy flux vector visualization of radiative-convection heat transfer in a porous triangular enclosure	Journal of Porous Media	10.1615/JPORMEDIA.2020033653
50	Basappa M.G., Manu B.	Enhancement of ametryn biodegradation efficiency using anthraquinone-2,6-disulphonate in anaerobic-aerobic treatment	Environmental Engineering and Management Journal	
51	Sambasiva Rao K., Beatriceveena T.V., Angani C.S., Agarwal L.	Novel time-domain parameters for detection and classification of flaws using pulsed eddy current technique	Journal of Magnetism	10.4283/JMAG.2020.25.3.434
52	Ghahremani, AH; Pishgar, S; Bahadur, J; Druffel, T	Estimation of PV module degradation through extraction of I-V curve at inverter pre-startup condition	ACS APPLIED ENERGY MATERIALS	10.1021/acsaem.0c01520
53	Kumar, BP; Nitheesh, R; Chakkarapani, M; Ilango, GS; Nagamani, C	Ignition study of neat biodiesel in dual fueled research engine	IET RENEWABLE POWER GENERATION	10.1049/iet-rpgm.2020.0316
54	Mehar, K; Panda, SK; Dewangan, HC	A UCM Approach for Forecasting the Seasonal Rainfall Patterns in Coastal Andhra Pradesh, India 1901-2017	STRUCTURES	10.1016/j.istruc.2020.10.049

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
55	Naje, AS; Yuvarajan, D; abed Al-Ridah, Z; Sandeep, H; Nagarajan, A	Identifying the effectiveness of manner of cryogenic coolant supply in different cryogenic cooling techniques in turning process-a review	FUEL	10.1016/j.fuel.2020.118673
56	Pal, R; Gupta, N; Prakash, A; Tripathi, R; Rodrigues, JJPC	Design and analysis of Yb doped ZnO (YZO) and P-Si bilayer nano-stacked reflector for optical filter applications	IET COMMUNICATIONS	10.1049/iet-com.2020.0451
57	Saravana, R; Sreenadh, S; Kumar, PR; Babu, VR	RETRACTION: Heat and Mass Transfer of Nanofluid from Horizontal Cylinder to Micropolar Fluid (Retraction of 2015)	JOURNAL OF NAVAL ARCHITECTURE AND MARINE ENGINEERING	10.3329/jname.v17i2.49559
58	Shivakumr, N; Vasu, V; Narasaiah, N	A review on atomic layer deposited buffer layers for Cu(In,Ga)Se-2 (GIGS) thin film solar cells: Past, present, and future	JOURNAL OF THE CHINESE SOCIETY OF MECHANICAL ENGINEERS	
59	Muhiuddin, G; Al-Kadi, D; Mahboob, A	Fuzzy Goal Programming with an Imprecise Intuitionistic Fuzzy Preference Relations	JOURNAL OF MATHEMATICS	10.1155/2020/2365078
60	Boggarapu, PK; Manickam, C; Lehman, B; Ganesan, SI; Chilakapati, N	Stacked Back Reflector Architecture for Advanced Optical Management in State-of-the-Art Single-Junction mu c-Si:H Solar Cells	IEEE TRANSACTIONS ON POWER ELECTRONICS	10.1109/TPEL.2020.2987856
61	Devarajan, Y; Munuswamy, D; Nagappan, B; Choubey, G	Investigating the mechanical, thermal and melt flow index properties of HNTs - LLDPE nano composites for the applications of rotational moulding	FUEL	10.1016/j.fuel.2020.118400
62	Murthy, KVN; Reddy, TA; Kumar, KV	Machinability evaluation during machining of AISI 52100 steel with textured tools under Minimum Quantity Lubrication - A comparative study	PURE AND APPLIED GEOPHYSICS	10.1007/s00024-019-02236-x
63	Nidhya, R; Kumar, M; Ravi, RV; Deepak, V	High responsivity ZnO based p-n homojunction UV-photodetector with series Schottky barrier	ENVIRONMENTAL TECHNOLOGY & INNOVATION	10.1016/j.eti.2020.101116
64	Panigrahy, PS; Santra, D; Chattopadhyay, P	Numerical buckling analysis of graded CNT-reinforced composite sandwich shell structure under thermal loading (vol 216, pg 406, 2019)	AI EDAM-ARTIFICIAL INTELLIGENCE FOR ENGINEERING DESIGN ANALYSIS AND MANUFACTURING	10.1017/S0890060420000311

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
65	Sahoo, B; Sahoo, B; Sharma, N; Mehar, K; Panda, SK	Optical and spectroscopic properties of Ho <sup>3+</sup> -doped fluorophosphate glasses for visible lighting applications	SMART STRUCTURES AND SYSTEMS	10.12989/sss.2020.26.5.641
66	Sivaiah, P; Chakradhar, D	Modeling and predicting the patterns of seasonal rainfall in Tamil Nadu, India 1951-2017: an UCM approach	MACHINING SCIENCE AND TECHNOLOGY	10.1080/10910344.2020.1815039
67	Choubey, G; Yuvarajan, D; Huang, W; Shafee, A; Pandey, KM	In pursuit of catalytic cathodes for lithium-oxygen batteries (vol 5, pg 7710, 2017)	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	10.1016/j.ijhydene.2020.07.098
68	Akbar, MA; Shameem, M; Mahmood, S; Alsanad, A; Gumaiei, A	Fabrication of superhydrophobic coating on PEO treated zirconium samples and its corrosion resistance	APPLIED SOFT COMPUTING	10.1016/j.asoc.2020.106557
69	Arun, I; Yuvaraj, C; Jyothibabu, P; Reddy, GCS	A Low Complex Selective Block Correlation for Video Frame Interpolation	SILICON	10.1007/s12633-019-00333-z
70	Devaki, P; Rao, AS; Sharma, RP; Sreenadh, S	AC Loss Analysis on Coated Conductors at different Sinusoidal Frequencies for Electric Propulsion Applications	INDIAN JOURNAL OF PURE & APPLIED PHYSICS	
71	Devarajan, Y; Nagappan, B; Mageshwaran, G; Kumar, MS; Durairaj, RB	Structural, Morphological and 1/f Noise Properties of ITO/TiO <sub>2</sub> Thin Films by e-Beam Evaporation System for Optoelectronic Device Applications	FUEL	10.1016/j.fuel.2020.118161
72	Katariya, PV; Mehar, K; Panda, SK	NEW TYPES OF BIPOLAR FUZZY IDEALS OF BCK-ALGEBRAS	INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS	10.1016/j.ijnonlinmec.2020.103527
73	Kumar, R; Sahoo, S; Joanni, E; Singh, RK; Maegawa, K; Tan, WK; Kawamura, G; Kar, KK; Matsuda, A	An Automatic and a Machine-assisted Method to Clean Bilingual Corpus	MATERIALS TODAY	10.1016/j.mattod.2020.04.010
74	Kuppusamy, P; Venkatraman, S; Rishikeshan, CA; Reddy, YCAP	Efficient Semantic Interrogation Scheme over Cryptographic Data in Cloud	PHYSICAL COMMUNICATION	10.1016/j.phycom.2020.101131
75	Narasimha Murthy K.V., Saravana R., Kishore Kumar G., Vijaya Kumar K.	Modelling and forecasting for monthly surface air temperature patterns in India, 1951–2016: Structural time series approach	Journal of Earth System Science	10.1007/s12040-020-01521-x

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
76	Dash L., Padhan S., Das A., Das S.R.	Machinability investigation and sustainability assessment in hard turning of AISI D3 steel with coated carbide tool under nanofluid minimum quantity lubrication-cooling condition	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	10.1177/0954406221993844
77	Dhasarathan C., Kumar M., Srivastava A.K., Al-Turjman F., Shankar A., Kumar M.	A bio-inspired privacy-preserving framework for healthcare systems	Journal of Supercomputing	10.1007/s11227-021-03720-9
78	Kumar M., Verma V.K., Singh V.R.	Magnetic anisotropic of thermally evaporated FeNi thin film: A soft X-ray magnetic circular dichroism study	Surface and Interface Analysis	10.1002/sia.6982
79	Singh M.M., Kumar H., Sivaiah P.	Evaluation of Mechanical Properties of Glass Fiber-BMPM/DABA-PMC Composite	Transactions of the Indian Institute of Metals	10.1007/s12666-021-02314-6
80	Tharehalli mata G., Mokenapalli V., Krishna H.	Performance analysis of MR damper based semi-active suspension system using optimally tuned controllers	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering	10.1177/09544070211004467
81	Nasar S., Baruch L.J., Vijay S.J., Srinivas C.K., Jose J., Popov V.V.	Erratum to: Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy (Physics of Metals and Metallography, (2021), 122, 5, (515-526), 10.1134/S0031918X21050100)	Physics of Metals and Metallography	10.1134/S0031918X21880025
82	Devi N., Sahoo S., Kumar R., Singh R.K.	A review of the microwave-assisted synthesis of carbon nanomaterials, metal oxides/hydroxides and their composites for energy storage applications	Nanoscale	10.1039/d1nr01134k
83	Pradhan B.B., Roy L.P., Mahapatra D.K.	Performance assessment of orthogonal space-time block codes in Nakagami-m/inverse Gaussian fading MIMO channels	IET Communications	10.1049/cmu2.12166
84	Devarajan Y., Nagappan B., Choubey G., Vellaiyan S., Mehar K.	Renewable Pathway and Twin Fueling Approach on Ignition Analysis of a Dual-Fuelled Compression Ignition Engine	Energy and Fuels	10.1021/acs.energyfuels.0c04237

S.No.	Authors	Title	Source Title	DOI
85	Nallabala N.K.R., Godavarthi S., Kummara V.K., Kesarla M.K., Yuvaraj C., Suresh Kumar, Ravi N., Guntupalli G.K., Jilani S.A.K., Vattikuti S.V.P.	High performance, self-powered and thermally stable 200–750 nm spectral responsive gallium nitride (GaN) based broadband photodetectors	Solar Energy Materials and Solar Cells	10.1016/j.solmat.2021.111033
86	Kumar R., Sahoo S., Joanni E., Singh R.K., Tan W.K., Kar K.K., Matsuda A.	Recent progress on carbon-based composite materials for microwave electromagnetic interference shielding	Carbon	10.1016/j.carbon.2021.02.091
87	Nongjai R., Samad R., Singh V.R., Verma V.K., Kandasami A.	Magnetic and electronic structures of N implanted iron oxide thin films	Journal of Magnetism and Magnetic Materials	10.1016/j.jmmm.2020.167703
88	Nasar S., Baruch L.J., Vijay S.J., Srinivas C.K., Jose J., Popov V.V.	Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy	Physics of Metals and Metallography	10.1134/S0031918X21050100
89	Paul S., Pati U.C.	High-resolution optical-to-SAR image registration using mutual information and SPSA optimisation	IET Image Processing	10.1049/ipr2.12107
90	Roy C., Islam A.	Design of low power, variation tolerant single bitline 9T SRAM cell in 16-nm technology in subthreshold region	Microelectronics Reliability	10.1016/j.microrel.2021.114126
91	Gadipelly T., Dasgupta A., Sornadurai D., Dhara S.	Controlling the morphology of nanocrystalline Y(OH)3 powders synthesized by microwave-hydrothermal route and effect of annealing	Applied Physics A: Materials Science and Processing	10.1007/s00339-021-04435-7
92	De S., Maity C.K., Sahoo S., Nayak G.C.	Polyindole Booster for Ti3C2TxMXene Based Symmetric and Asymmetric Supercapacitor Devices	ACS Applied Energy Materials	10.1021/acsaem.1c00142
93	Kumari P., Zzaman M., Jena S., Kumar M., Bharadwaj R.R., Verma V.K., Shahid R., Amemiya K., Singh V.R.	Electronic and Magnetic Properties of Chemical Solution Deposited BiFeO3 Thin Film: a Soft X-ray Magnetic Circular Dichroism Study	Journal of Superconductivity and Novel Magnetism	10.1007/s10948-021-05840-y
94	Rathanasamy R., Sahoo S., Lee J.H., Das A.K., Somasundaram M., Palaniappan S.K., Sivaraj S.	Carbon-based Multi-layered Films for Electronic Application: A Review	Journal of Electronic Materials	10.1007/s11664-020-08724-4



<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
95	Patnaik N., Panda A.K., Mohanty P.R., Pandey R.	DEC fuel cell-based universal power compensator for dual PCC system	International Transactions on Electrical Energy Systems	10.1002/2050-7038.12805
96	Khan A.A., Shameem M., Nadeem M., Akbar M.A.	Agile trends in Chinese global software development industry: Fuzzy AHP based conceptual mapping	Applied Soft Computing	10.1016/j.asoc.2021.107090
97	Devarajan Y., Nagappan B., Subbiah G., Kariappan E.	Experimental investigation on solar-powered ejector refrigeration system integrated with different concentrators	Environmental Science and Pollution Research	10.1007/s11356-020-12248-z
98	Perumal A., Azhagurajan A., Prithvirajan R., Kumar S.S.	Experimental Investigation and Optimization of Process Parameters in Ti – (6242) Alpha–Beta Alloy Using Electrical Discharge Machining	Journal of Inorganic and Organometallic Polymers and Materials	10.1007/s10904-020-01786-1
99	Kurmi Y., Gangwar S., Agrawal D., Kumar S., Srivastava H.S.	Leaf image analysis-based crop diseases classification	Signal, Image and Video Processing	10.1007/s11760-020-01780-7
100	Ebrahimi F., Karimiasl M., Singhal A.	Magneto-electro-elastic analysis of piezoelectric–flexoelectric nanobeams rested on silica aerogel foundation	Engineering with Computers	10.1007/s00366-019-00869-z
101	Ramteke P.M., Mehar K., Sharma N., Panda S.K.	Numerical prediction of deflection and stress responses of functionally graded structure for grading patterns (power-law, sigmoid, and exponential) and variable porosity (even/uneven)	Scientia Iranica	10.24200/SCI.2020.55581.4290
102	Jena P.R., Majhi R., Kalli R., Managi S., Majhi B.	Impact of COVID-19 on GDP of major economies: Application of the artificial neural network forecaster	Economic Analysis and Policy	10.1016/j.eap.2020.12.013
103	Deshamukhya T., Bhanja D., Nath S.	Heat transfer enhancement through porous fins: A comprehensive review of recent developments and innovations	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	10.1177/0954406220939600
104	Nagappan B., Devarajan Y., Kariappan E., Philip S.B., Gautam S.	Influence of antioxidant additives on performance and emission characteristics of beef tallow biodiesel-fuelled C.I engine	Environmental Science and Pollution Research	10.1007/s11356-020-09065-9

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
105	Prabhakar Vattikuti S.V., Devarayapalli K.C., Chandra Sekhar M., Kumar Reddy Nallabala N., Nguyen Dang N., Shim J.	Electrochemical performance of coin cell-type symmetric supercapacitor electrode consisting of three- dimensional molybdenum disulfide microflowers	Materials Letters	10.1016/j.matlet.2020.129203
106	Bardhan Roy A., Vinay Kumar K., Saha M.	Light management studies by using different surface texturing for thin c-Si solar cells	Applied Physics A: Materials Science and Processing	10.1007/s00339-020-04208-8
107	Chauhan A., Naseem S., Bahadur J., Singh B.R., Shoeb M., Husain S., Khan W.	Structural and electrochemical properties of GO/Mn3O4 nanocomposite	Journal of Materials Science: Materials in Electronics	10.1007/s10854-020-05132-6
108	Arora S., Satsangi S., Kaur S., Khanna R.	Substation demand reduction by CVR enabled intelligent PV inverter control functions in distribution systems	International Transactions on Electrical Energy Systems	10.1002/2050-7038.12724
109	Katariya P.V., Panda S.K., Mehar K.	Theoretical modelling and experimental verification of modal responses of skewed laminated sandwich structure with epoxy-filled softcore	Engineering Structures	10.1016/j.engstruct.2020.111509
110	Mahadevan A., Arock M.	A class imbalance-aware review rating prediction using hybrid sampling and ensemble learning	Multimedia Tools and Applications	10.1007/s11042-020-10024-2
111	Thirugnanasambandam K., Sudha S.V., Saravanan D., Ravi R.V., Anguraj D.K., Raghav R.S.	Reinforced Cuckoo Search based fugitive landfill methane emission estimation	Environmental Technology and Innovation	10.1016/j.eti.2020.101207
112	Reddy B.P., Mallikarjuna K., Kumar M., Sekhar M.C., Suh Y., Park S.-H.	Highly porous metal organic framework derived NiO hollow spheres and flowers for oxygen evolution reaction and supercapacitors	Ceramics International	10.1016/j.ceramint.2020.09.172
113	Arun I., Yuvaraj C., Madhu A., Ramesh T.	A comparison on microstructure and mechanical properties of electric discharge metal matrix nickel and silica composite coating on duplex stainless steel	Journal of Composite Materials	10.1177/0021998320953882
114	Murthy K.V.N., Kishore Kumar G.	Structural time-series modelling for seasonal surface air temperature patterns in India 1951–2016	Meteorology and Atmospheric Physics	10.1007/s00703-020-00732-7

S.No.	Authors	Title	Source Title	DOI
115	Beemkumar N., Yuvarajan D., Arulprakasajothi M., Elangovan K., Arunkumar T.	Control of room temperature fluctuations in the building by incorporating PCM in the roof	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-019-09226-0
116	Sahoo B., Mehar K., Sahoo B., Sharma N., Panda S.K.	Thermal frequency analysis of FG sandwich structure under variable temperature loading	Structural Engineering and Mechanics	10.12989/sem.2021.77.1.057
117	Vattikuti S.V.P., Devarayapalli K.C., Reddy Nallabala N.K., Nguyen T.N., Nguyen Dang N., Shim J.	Onion-Ring-like Carbon and Nitrogen from ZIF-8 on TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> Nanostructure for Overall Electrochemical Water Splitting	Journal of Physical Chemistry Letters	10.1021/acs.jpcclett.1c01497
118	Aurtherson P.B., Nalla B.T., Srinivasan K., Mehar K., Devarajan Y.	Biofuel production from novel Prunus domestica kernel oil: process optimization technique	Biomass Conversion and Biorefinery	10.1007/s13399-021-01551-5
119	Paul S., Pati U.C.	A comprehensive review on remote sensing image registration	International Journal of Remote Sensing	10.1080/01431161.2021.1906985
120	Al-Amin M., Abdul-Rani A.M., Ahmed R., Rao T.V.V.L.N.	Multiple-objective optimization of hydroxyapatite-added EDM technique for processing of 316L-steel	Materials and Manufacturing Processes	10.1080/10426914.2021.1885715
121	Ketham R., Althuwayb A.A., Kumar A.	Low-profile Magneto-electric Dipole Antenna	IETE Journal of Research	10.1080/03772063.2021.1873200
122	Sahoo P.R., Patel A., Ghosh S., Naskar A.K.	Selection of overlapping interactions through approximate decentralised fixed mode measure	International Journal of Systems Science	10.1080/00207721.2021.1872115
123	Manjunath V., Nallabala N.K.R., Yuvaraj C., Kukkambakam C., Kummara V.K., Kumar S., Sharma S., Lakshmaiah M.V., Minnam Reddy V.R.	Statistical analysis of current–voltage characteristics in Au/Ta <sub>2</sub> O <sub>5</sub> /n-GaN Schottky barrier heterojunction using different methods	Applied Physics A: Materials Science and Processing	10.1007/s00339-020-04173-2
124	Ravi N., Neelima G., Reddy Nallabala N.K., Kummara V.K., Ravanamma R., Reddy V.J., Prasanth M., Suresh K., Babu P., Venkatramu V.	Role of excitation wavelength and dopant concentration on white light tunability of dysprosium doped titania-fluorophosphate glasses	Optical Materials	10.1016/j.optmat.2020.110593
125	Ahmad N., Hasan M.G.	Self-adaptive query-broadcast in wireless ad-hoc networks using fuzzy best worst method	Wireless Networks	10.1007/s11276-020-02477-y

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
126	Huifeng W., Shankar A., Vivekananda G.N.	Modelling and simulation of sprinters' health promotion strategy based on sports biomechanics	Connection Science	10.1080/09540091.2020.1807467
127	Das A., Patel S.K., Arakha M., Dey A., Biswal B.B.	Processing of hardened steel by MQL technique using nano cutting fluids	Materials and Manufacturing Processes	10.1080/10426914.2020.1832688
128	Sivalingam V., Zhuoliang Z., Jie S., Baskaran S., Yuvaraj N., Gupta M.K., Aqib M.K.	Use of Atomized Spray Cutting Fluid Technique for the Turning of a Nickel Base Superalloy	Materials and Manufacturing Processes	10.1080/10426914.2020.1832687
129	Arunnellaiappan T., Baskaran S., Arun S., Prithivirajan R.	Corrosion behaviour of detonation gun sprayed cermet coatings on AA5083	Surface Engineering	10.1080/02670844.2020.1807096
130	Vivekananda G.N., Swathi R., Sujith A.V.L.N.	Multi-temporal image analysis for LULC classification and change detection	European Journal of Remote Sensing	10.1080/22797254.2020.1771215
131	Padhan S., Das A., Santoshwar A., Dharmendrabhai T.R., Das S.R.	Sustainability Assessment and Machinability Investigation of Austenitic Stainless Steel in Finish Turning with Advanced Ultra-Hard SiAlON Ceramic Tool under Different Cutting Environments	Silicon	10.1007/s12633-020-00409-1
132	Mehar K., Mishra P.K., Panda S.K.	Numerical investigation of thermal frequency responses of graded hybrid smart nanocomposite (CNT-SMA-Epoxy) structure	Mechanics of Advanced Materials and Structures	10.1080/15376494.2020.1725193
133	Reddy N.N.K., Kukkambakam C., Manjunath V., Reddy V.R.M.	Analysis of Double Gaussian Distribution at the Interface of Ni/Ta2O5/P-Si Schottky Barrier Diodes Using Temperature Dependent Current-Voltage (I-V) Measurements	Silicon	10.1007/s12633-020-00407-3
134	Shyam Kumar R., Balasundar P., Al-Dhabi N.A., Prithivirajan R., Ramkumar T., Bhat K.S., Senthil S., Narayanasamy P.	A New Natural Cellulosic Pigeon Pea (Cajanus cajan) Pod Fiber Characterization for Bio-degradable Polymeric Composites	Journal of Natural Fibers	10.1080/15440478.2019.1689887
135	Rai G.N., Gangadharan G.R., Padmanabhan V., Buyya R.	Web Service Interaction Modeling and Verification Using Recursive Composition Algebra	IEEE Transactions on Services Computing	10.1109/TSC.2018.2789454
136	Katiyar, JK; Rao, TVVLN; Ul Haq, MI; Bin Abdollah, MF	Tribology for sustainability & reliability	INDUSTRIAL LUBRICATION AND TRIBOLOGY	10.1108/ilt-11-2021-0450

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
137	Mata, GT; Mokenapalli, V; Krishna, H	High performance, self-powered and thermally stable 200-750 nm spectral responsive gallium nitride (GaN) based broadband photodetectors	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING	10.1177/09544070211004467
138	Nasar, S; Baruch, LJ; Vijay, SJ; Srinivas, CK; Jose, J; Popov, VV	Ideal theory of BCK/BCI-algebras based on hybrid structures	PHYSICS OF METALS AND METALLOGRAPHY	10.1134/S0031918X21880025

## List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2019-20

S.No.	Authors	Title	Source Title	DOI
1	Patra J.P., Singh P.	A novel LMMSE-EM channel estimator for high mobility STBC-OFDM system	Journal of Circuits, Systems and Computers	10.1142/S0218126619502232
2	Subbarayalu V., Surendiran B., Arun Raj Kumar P.	Hybrid Network Intrusion Detection System for Smart Environments Based on Internet of Things	Computer Journal	10.1093/comjnl/bxz082
3	Dong M.-Z., Liao J., Choubey G., Huang W.	Influence of the secondary flow control on the transverse gaseous injection flow field properties in a supersonic flow	Acta Astronautica	10.1016/j.actaastro.2019.08.028
4	Devarajan Y., Munuswamy D., Nagappan B., Subbiah G.	Experimental assessment of performance and exhaust emission characteristics of a diesel engine fuelled with Punnai biodiesel/butanol fuel blends	Petroleum Science	10.1007/s12182-019-00361-9
5	Vaish R., Sarfaraz M., Ahmad M.K., Kazmi K.R.	Approximate solution of zero point problem involving H-accretive maps in Banach spaces and applications	Journal of Inequalities and Applications	10.1186/s13660-019-2163-y
6	Kumar S.A., Chandramohan D.	Fault test analysis in transmission lines throughout interfering synchrophasor signals	ICT Express	10.1016/j.ict.2018.03.003
7	Saroj P.K., Sahu S.A., Singhal A., Abo-Dahab S.M.	On the transference of Love-type waves in pre-stressed PZT-5H material stick on SiO <sub>2</sub> material with irregularity	Materials Research Express	10.1088/2053-1591/ab5544
8	Gorai A., Roy B., Mahanti G.K.	A compact CPW-fed wideband slot antenna with reflector for wireless communication	Electromagnetics	10.1080/02726343.2019.1675439
9	Aravind Kumar J., Joshua Amarnath D., Anuradha Jabasingh S., Senthil Kumar P., Vijai Anand K., Narendrakumar G., Karthick Raja Namasivayam S., Krithiga T., Sunny S., Purna Pushkala S., Yuvarajan D.	One pot Green Synthesis of Nano magnesium oxide-carbon composite: Preparation, characterization and application towards anthracene adsorption	Journal of Cleaner Production	10.1016/j.jclepro.2019.117691
10	Jayakrishnan A.R., Alex K.V., Kamakshi K., Silva J.P.B., Sekhar K.C., Gomes M.J.M.	Enhancing the dielectric relaxor behavior and energy storage properties of 0.6Ba(Zr0.2Ti0.8)O <sub>3</sub> -0.4(Ba0.7Ca0.3)TiO <sub>3</sub> ceramics through the incorporation of paraelectric SrTiO <sub>3</sub>	Journal of Materials Science: Materials in Electronics	10.1007/s10854-019-02299-5
11	Debnath S., Hossain A.	Network Coverage in Interference Limited Wireless Sensor Networks	Wireless Personal Communications	10.1007/s11277-019-06555-z
12	Alex K.V., Prabhakaran A., Jayakrishnan A.R., Kamakshi K., Silva J.P.B., Sekhar K.C.	Charge Coupling Enhanced Photocatalytic Activity of BaTiO <sub>3</sub> /MoO <sub>3</sub> Heterostructures	ACS Applied Materials and Interfaces	10.1021/acsami.9b14919

S.No.	Authors	Title	Source Title	DOI
13	Noolu V., Mudavath H., Pillai R.J., Yantrapalli S.K.	Permanent deformation behaviour of black cotton soil treated with calcium carbide residue	Construction and Building Materials	10.1016/j.conbuildmat.2019.07.010
14	Purusottam Reddy B., Cui H., Chandra Sekhar M., Vattikuti S.V.P., Suh Y., Park S.-H.	Influence of Gd doping on the visible-light photocatalytic activity and magnetic properties of BiFeO <sub>3</sub> particles	Materials Research Express	10.1088/2053-1591/ab463d
15	Varshney G., Gotra S., Chaturvedi S., Pandey V.S., Yaduvanshi R.S.	Compact four-port MIMO dielectric resonator antenna with pattern diversity	IET Microwaves, Antennas and Propagation	10.1049/iet-map.2018.5799
16	Bandapalli C., Sutaria B.M., Bhatt D.V.	Estimation of surface roughness on ti-6Al-4V in high speed micro end milling by ANFIS model	Indian Journal of Engineering and Materials Sciences	
17	Srivastava J., Sanyal S., Srivastava A.K.	An automatic and a machine-assisted method to clean Bilingual corpus	ACM Transactions on Asian and Low-Resource Language Information Processing	10.1145/3342351
18	Khan A.A., Shameem M., Kumar R.R., Hussain S., Yan X.	Fuzzy AHP based prioritization and taxonomy of software process improvement success factors in global software development	Applied Soft Computing Journal	10.1016/j.asoc.2019.105648
19	Bojjagani S., Sastry V.N.	A secure end-to-end proximity NFC-based mobile payment protocol	Computer Standards and Interfaces	10.1016/j.csi.2019.04.007
20	Singh K.S., Tyagi B., Verma V.K., Maity S.	Assessing the performance evaluation of different convective parameterization schemes in simulating the intensity of severe cyclonic storms over the Bay of Bengal region	Meteorological Applications	10.1002/met.1787
21	De A., Roy B., Bhattacharjee A.K.	Dual-Notched Monopole Antenna Using DGS for WLAN and Wi-MAX Applications	Journal of Circuits, Systems and Computers	10.1142/S0218126619501895
22	Narasimha Murthy K.V., Saravana R., Rajendra P.	Unobserved component modeling for seasonal rainfall patterns in Rayalaseema region, India 1951–2015	Meteorology and Atmospheric Physics	10.1007/s00703-018-0645-y
23	Banthia S., Sengupta S., Das S., Das K.	Cu, Cu-SiC functionally graded coating for protection against corrosion and wear	Surface and Coatings Technology	10.1016/j.surfcoat.2019.06.050
24	Nagesha K.V., Kumar H., Muralidhar Singh M.	Development of statistical models to predict emission rate and concentration of particulate matters (PM) for drilling operation in opencast mines	Air Quality, Atmosphere and Health	10.1007/s11869-019-00723-7
25	Singhal A., Sahu S.A., Nirwal S., Chaudhary S.	Anatomy of flexoelectricity in micro plates with dielectrically highly/weakly and mechanically compliant interface	Materials Research Express	10.1088/2053-1591/ab3f52
26	Koduru H.K., Bruno L., Marinov Y.G., Hadjichristov G.B., Scaramuzza N.	Mechanical and sodium ion conductivity properties of graphene oxide–incorporated nanocomposite polymer electrolyte membranes	Journal of Solid State Electrochemistry	10.1007/s10008-019-04359-6

S.No.	Authors	Title	Source Title	DOI
27	Shukla A.K., Tripathi D.	Identification of potential biomarkers on microarray data using distributed gene selection approach	Mathematical Biosciences	10.1016/j.mbs.2019.108230
28	Varshney G., Gotra S., Pandey V.S., Yaduvanshi R.S.	Proximity-coupled two-port multi-input-multi-output graphene antenna with pattern diversity for THz applications	Nano Communication Networks	10.1016/j.nancom.2019.05.003
29	Muralidhar Singh M., Kumar H., Nagesha K.V., Sivaiah P., Hemath Kumar G., Ajay K.M., Vijaya G.	Evaluation of Multilayer Thin Film Coatings for Solar Thermal Applications	Arabian Journal for Science and Engineering	10.1007/s13369-019-03904-9
30	Roy B., Chowdhury S.K., Bhattacharjee A.K.	Symmetrical Hexagonal Monopole Antenna with Bandwidth Enhancement Under UWB Operations	Wireless Personal Communications	10.1007/s11277-019-06433-8
31	Sitharthan R., Ponnusamy M., Karthikeyan M., Sundar D.S.	Analysis on smart material suitable for autogenous microelectronic application	Materials Research Express	10.1088/2053-1591/ab3c0b
32	Sivalingam V., Sun J., Selvam B., Zheng P., Zan Z.	Investigation of cryogenically treated physical vapor deposition TiAlN/NbN-coated carbide inserts in end milling of hard titanium alloy	Journal of Testing and Evaluation	10.1520/JTE20180728
33	Balasundar P., Narayanasamy P., Senthil S., Abdullah Al-Dhabi N., Prithivirajan R., Shyam Kumar R., Ramkumar T., Subrahmanya Bhat K.	Physico-chemical study of pistachio ( <i>Pistacia vera</i> ) nutshell particles as a bio-filler for eco-friendly composites	Materials Research Express	10.1088/2053-1591/ab3b9b
34	Sudhakar R., Rao P.V.V.	Video super resolution using non-linear regression and deep learning	Imaging Science Journal	10.1080/13682199.2019.1652445
35	Varshney G., Gotra S., Pandey V.S., Yaduvanshi R.S.	Proximity-Coupled Graphene-Patch-Based Tunable Single-/Dual-Band Notch Filter for THz Applications	Journal of Electronic Materials	10.1007/s11664-019-07274-8
36	Beemkumar N., Yuvarajan D., Karthikeyan A., Ganesan S.	Comparative experimental study on parabolic trough collector integrated with thermal energy storage system by using different reflective materials	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-018-07989-6
37	Narasimha Murthy K.V., Saravana R., Vijaya Kumar K.	Stochastic modelling of the monthly average maximum and minimum temperature patterns in India 1981–2015	Meteorology and Atmospheric Physics	10.1007/s00703-018-0606-5
38	Teki S.M., Varma M.K., Yadav A.K.	Brain tumour segmentation using U-net based adversarial networks	Traitement du Signal	10.18280/ts.360408
39	Arun I., Gangadhar B., Yuvaraj C., Kousalya C.	Electrical discharge metal matrix composite coating on duplex stainless steel and its wear behavior under different environmental conditions	Materials Research Express	10.1088/2053-1591/ab33bf



S.No.	Authors	Title	Source Title	DOI
40	Vinod A., Kumar P., Bhowmick B.	Impact of ferroelectric on the electrical characteristics of silicon–germanium based heterojunction Schottky barrier FET	AEU - International Journal of Electronics and Communications	10.1016/j.aeue.2019.05.030
41	Mathew A., Sreekumar S., Khandelwal S., Kumar R.	Prediction of land surface temperatures for surface urban heat island assessment over Chandigarh city using support vector regression model	Solar Energy	10.1016/j.solener.2019.04.001
42	Bhosale A., Zade N.P., Davis R., Sarkar P.	Experimental Investigation of Autoclaved Aerated Concrete Masonry	Journal of Materials in Civil Engineering	10.1061/(ASCE)MT.1943-5533.0002762
43	Koduru H.K., Marinov Y.G., Hadjichristov G.B., Scaramuzza N.	Characterization of polymer/liquid crystal composite based electrolyte membranes for sodium ion battery applications	Solid State Ionics	10.1016/j.ssi.2019.02.021
44	Bablani A., Edla D.R., Tripathi D., Kuppili V.	An efficient Concealed Information Test: EEG feature extraction and ensemble classification for lie identification	Machine Vision and Applications	10.1007/s00138-018-0950-y
45	Mohan Krishna Varma N., Kalyani M., Shin S.-Y., Park S.-H.	Underwater spray and wait routing technique for mobile ad-hoc networks	Indian Journal of Geo-Marine Sciences	
46	Varshney G., Gotra S., Singh R., Pandey V.S., Yaduvanshi R.S.	Dimensions selection criteria of stair-shaped slot for obtaining the wideband response of CPDRA	Defence Science Journal	10.14429/dsj.69.14948
47	Gaffar S.A., Ur-Rehman K., Reddy P.R., Prasad V.R., Khan B.M.H.	Powell–eyring fluid flow towards an isothermal sphere in a non-darcy porous medium	Canadian Journal of Physics	10.1139/cjp-2018-0835
48	Patra, JP; Singh, P	Evaluation of hybrid textured tool performance under minimum quantity lubrication while turning of AISI 304 steel	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	10.1142/S0218126619502232
49	Saikrishnan, V; Karthikeyan, A; Beemkumar, N; Ganesan, S; Yuvarajan, D	Decision support system toward evaluation of resilient supplier A novel fuzzy gain-loss computational approach	JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING	10.1007/s40430-019-2106-z
50	Devarajan, Y; Munuswamy, D; Nagappan, B; Subbiah, G	Enhancing the dielectric relaxor behavior and energy storage properties of 0.6Ba(Zr0.2Ti0.8)O-3-0.4(Ba0.7Ca0.3)TiO3 ceramics through the incorporation of paraelectric SrTiO3	PETROLEUM SCIENCE	10.1007/s12182-019-00361-9
51	Dong, MZ; Liao, J; Choubey, G; Huang, W	Powell-Eyring fluid flow towards an isothermal sphere in a non-Darcy porous medium	ACTA ASTRONAUTICA	10.1016/j.actaastro.2019.08.028

S.No.	Authors	Title	Source Title	DOI
52	Kumar, SA; Chandramohan, D	Response to Discussion on "Nearest and Non-Nearest Three Vector Modulations of NPCI Using Two-Level Space Vector Diagram-A Novel Approach"	ICT EXPRESS	10.1016/j.ict.2018.03.003
53	Reddy, NNK; Ananda, P; Verma, VK; Bakash, KR	Mechanical and sodium ion conductivity properties of graphene oxide-incorporated nanocomposite polymer electrolyte membranes	SURFACE REVIEW AND LETTERS	10.1142/S0218625X19500732
54	Saroj, PK; Sahu, SA; Singhal, A; Abo-Dahab, SM	Dual-band circular polarisation generation technique with the miniaturisation of a rectangular dielectric resonator antenna	MATERIALS RESEARCH EXPRESS	10.1088/2053-1591/ab5544
55	Sivaiah, P	Stochastic modelling of the monthly average maximum and minimum temperature patterns in India 1981-2015	JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING	10.1007/s40430-019-2069-0
56	Sivaiah, P; Uma, B	Obtaining the circular polarization in a nanodielectric resonator antenna for photonics applications	EMERGING MATERIALS RESEARCH	10.1680/jemmr.17.00029
57	Subbarayalu, V; Surendiran, B; Kumar, PAR	Compact four-port circulator based on 2D photonic crystals with a 90 degrees rotation of the light wave for photonic integrated circuits applications	COMPUTER JOURNAL	10.1093/comjnl/bxz082
58	Wang, W; Huang, L; Zhu, YL; Jiang, LP; Sahu, AK; Sahu, AK; Sahu, NK	Recent advances in cavity-based scramjet engine- a brief review	KYBERNETES	10.1108/K-05-2019-0345
59	Jagadeesan, AK; Duvuru, JA; Jabasingh, SA; Ponnusamy, SK; Kabali, VA; Gopakumaran, N; Selvaraj, KRN; Thangavelu, K; Sunny, S; Somasundaram, PP; Devarajan, Y	New results on restricted static output feedback $H_{\infty}$ infinity controller design with regional pole placement	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.117691
60	Bablani, A; Edla, DR; Tripathi, D; Dodia, S; Chintala, S	Evaluation of temperature dependent electrical transport parameters in Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> /n-Si metal-insulator-semiconductor (MIS) type Schottky barrier heterojunction in a wide temperature range	IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY	10.1109/TIFS.2019.2913798
61	Debnath, S; Hossain, A	Composition-dependent xBa(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -(1-x)(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> bulk ceramics for high energy storage applications	WIRELESS PERSONAL COMMUNICATIONS	10.1007/s11277-019-06555-z

S.No.	Authors	Title	Source Title	DOI
62	Jayakrishnan, AR; Alex, KV; Kamakshi, K; Silva, JPB; Sekhar, KC; Gomes, MJM	Magnetohydrodynamic Non-Darcy Flows of Nanofluid from Horizontal Circular Permeable Cylinder: A Buongiorno's Mathematical Model	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	10.1007/s10854-019-02299-5
63	Alex, KV; Prabhakaran, A; Jayakrishnan, AR; Kamakshi, K; Silva, JPB; Sekhar, KC	Comparative Analysis of Hetero Gate Dielectric Hetero Structure Tunnel FET and Schottky Barrier FET with n plus Pocket Doping for Suppression of Ambipolar Conduction and Improved RF/Linearity	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.9b14919
64	Noolu, V; Mudavath, H; Pillai, RJ; Yantrapalli, SK	Experimental investigation on mechanical properties of Al 7075/Al2O3/Mg NMMC's by stir casting method	CONSTRUCTION AND BUILDING MATERIALS	10.1016/j.conbuildmat.2019.07.010
65	Gorai, A; Roy, B; Mahanti, GK	Demand factor definition-A dimensionless parameter for Vertical Axis Wind Turbines	ELECTROMAGNETICS	10.1080/02726343.2019.1675439
66	Varshney, G; Gotra, S; Chaturvedi, S; Pandey, VS; Yaduvanshi, RS	Electro-Optics of PDLC Films Doped with WO3 Nanoparticles	IET MICROWAVES ANTENNAS & PROPAGATION	10.1049/iet-map.2018.5799
67	Balasundar, P; Narayanasamy, P; Senthil, S; Al-Dhabi, NA; Prithivirajan, R; Kumar, RS; Ramkumar, T; Bhat, KS	A Hybrid Bio-Inspired Algorithm for Protein Domain Problems	MATERIALS RESEARCH EXPRESS	10.1088/2053-1591/ab3b9b
68	Bandapalli, C; Sutaria, BM; Bhatt, DV	Nonlinear H-infinity control of autonomous underwater vehicles	INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES	
69	Bojjagani, S; Sastry, VN	Impact of annealing process on electrical characteristics of Ni Schottky rectifiers fabricated on p-type Si	COMPUTER STANDARDS & INTERFACES	10.1016/j.csi.2019.04.007
70	De, A; Roy, B; Bhattacharjee, AK	Energetic sets and (is an element of, is an element of boolean OR q)-permeable values in BCK/BCI-algebras	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	10.1142/S0218126619501895
71	Gaffar, SA; Ur-Rehman, K; Reddy, PR; Prasad, VR; Khan, BMH	Influence of Multi-hole Technique on Fabrication of Surface Nanocomposite by Friction Stir Processing	CANADIAN JOURNAL OF PHYSICS	10.1139/cjp-2018-0835
72	Khan, AA; Shameem, M; Kumar, RR; Hussain, S; Yan, XF	Impact of data assimilation and air-sea flux parameterization schemes on the prediction of cyclone Phailin over the Bay of Bengal using the WRF-ARW model	APPLIED SOFT COMPUTING	10.1016/j.asoc.2019.105648
73	Murthy, KVN; Saravana, R; Rajendra, P	Impact of ferroelectric on the electrical characteristics of silicon-germanium based heterojunction Schottky barrier FET	METEOROLOGY AND ATMOSPHERIC PHYSICS	10.1007/s00703-018-0645-y

S.No.	Authors	Title	Source Title	DOI
74	Boggarapu P.K., Manickam C., Lehman B., Ganesan S.I., Chilakapati N.	Identification of Pre-existing/Undetected Line-to-Line Faults in PV Array Based on Pretun on/off Condition of the PV Inverter	IEEE Transactions on Power Electronics	10.1109/TPEL.2020.2987856
75	Brabin D.R.D., Perinbam J.R.P., Meganathan D.	Watermark Visibility Adjustable RVW Scheme for JPEG Images	Wireless Personal Communications	10.1007/s11277-020-07567-w
76	Prithvirajan R., Narayanasamy P., Al-Dhabi N.A., Balasundar P., Shyam Kumar R., Ponnurugan K., Ramkumar T., Senthil S.	Characterization of Musa paradisiaca L. Cellulosic Natural Fibers from Agro-discarded Blossom Petal Waste	Journal of Natural Fibers	10.1080/15440478.2019.1588826
77	Choubey G., D Y., Huang W., Yan L., Babazadeh H., Pandey K.M.	Hydrogen fuel in scramjet engines - A brief review	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2020.04.086
78	Wang W., Huang L., Zhu Y., Jiang L., Sahu A.K., Sahu A.K., Sahu N.K.	Decision support system toward evaluation of resilient supplier: A novel fuzzy gain-loss computational approach	Kybernetes	10.1108/K-05-2019-0345
79	Ebrahimi F., Hosseini S.H.S., Singhal A.	A comprehensive review on the modeling of smart piezoelectric nanostructures	Structural Engineering and Mechanics	10.12989/sem.2020.74.5.611
80	Sengupta S., Kumar P., Makhatha M.E., Dutt A.K.	Effect of Substructure on Hardness and Conductivity of Copper During Annealing	Transactions of the Indian Institute of Metals	10.1007/s12666-020-01932-w
81	Kumar P., Makhatha M.E., Sengupta S., Dutt A.K.	Prediction of the Propagation of Fatigue Cracks in Part-Through Cracked Pipes with CASCA and FRANC2D	Transactions of the Indian Institute of Metals	10.1007/s12666-020-01886-z
82	Kumar A.	Wideband circular cavity-backed slot antenna with conical radiation patterns	Microwave and Optical Technology Letters	10.1002/mop.32316
83	Raghav R.S., Thirugnansambandam K., Anguraj D.K.	Beeware Routing Scheme for Detecting Network Layer Attacks in Wireless Sensor Networks	Wireless Personal Communications	10.1007/s11277-020-07158-9
84	Penthia T., Panda A.K., Patnaik N., Mohanty P.R.	Performance of SMES system with non-linear dynamic evolution control approach for pulsed power load compensation	IET Generation, Transmission and Distribution	10.1049/iet-gtd.2019.1880
85	Mehar K., Panda S.K., Sharma N.	Numerical investigation and experimental verification of thermal frequency of carbon nanotube-reinforced sandwich structure	Engineering Structures	10.1016/j.engstruct.2020.110444

S.No.	Authors	Title	Source Title	DOI
86	Mehar K., Panda S.K., Devarajan Y., Choubey G.	Corrigendum to "Numerical buckling analysis of graded CNT-reinforced composite sandwich shell structure under thermal loading" [Compos. Struct. 216 (2019) 406–414](S0263822318344763)(10.1016/j.compstruct.2019.03.002)	Composite Structures	10.1016/j.compstruct.2020.112064
87	Devarajan Y., Beemkumar N., Ganesan S., Arunkumar T.	An experimental study on the influence of an oxygenated additive in diesel engine fuelled with neat papaya seed biodiesel/diesel blends	Fuel	10.1016/j.fuel.2020.117254
88	Kulandaivel N., Muralikannan R., KalyanaSundaram S.	Extraction and Characterization of Novel Natural Cellulosic Fibers from Pigeon Pea Plant	Journal of Natural Fibers	10.1080/15440478.2018.1534184
89	Shariati A., Barati M.R., Ebrahimi F., Singhal A., Toghroli A.	Investigating vibrational behavior of graphene sheets under linearly varying in-plane bending load based on the nonlocal strain gradient theory	Advances in Nano Research	10.12989/anr.2020.8.4.265
90	Dharmale N., Chaudhury S., Mahamune R., Dash D.	Comparative study on structural, electronic, optical and mechanical properties of normal and high pressure phases titanium dioxide using DFT	Materials Research Express	10.1088/2053-1591/ab8d5c
91	Das A.K., Jena S., Sahoo S., Kuchi R., Kim D., Aljohani T.A., Nayak G.C., Jeong J.-R.	Facile synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanorods for electrocatalytic oxidation of methanol	Journal of Saudi Chemical Society	10.1016/j.jsocs.2020.03.007
92	Swain R., Chatterjee A., Nanda S., Mishra R.K.	A Linear-to-Circular Polarization Conversion Metasurface Based Wideband Aperture Coupled Antenna	Journal of Electrical Engineering and Technology	10.1007/s42835-020-00402-z
93	Das T.K., Dwivedy B., Behera S.K.	Design of a meandered line microstrip antenna with a slotted ground plane for RFID applications	AEU - International Journal of Electronics and Communications	10.1016/j.aeue.2020.153130
94	Sathesh K., Rajkumar S., Goyal N.K.	Least Mean Square (LMS) based neural design and metric evaluation for auscultation signal separation	Biomedical Signal Processing and Control	10.1016/j.bspc.2019.101784
95	Singh A.K., Kumar S., Singh B.	Solar PV Energy Generation System Interfaced to Three Phase Grid with Improved Power Quality	IEEE Transactions on Industrial Electronics	10.1109/TIE.2019.2921278
96	Shameem M., Kumar R.R., Nadeem M., Khan A.A.	Taxonomical classification of barriers for scaling agile methods in global software development environment using fuzzy analytic hierarchy process	Applied Soft Computing Journal	10.1016/j.asoc.2020.106122
97	Bellam J.B., Jouanneaux A., Subramaniam V., Kassiba A.H.	Statistical experimental design to optimize RF-sputtered NiTiO <sub>3</sub> thin films	Journal of Materials Science: Materials in Electronics	10.1007/s10854-020-02940-8
98	Roy C., Islam A.	Characterization of single-ended 9T SRAM cell	Microsystem Technologies	10.1007/s00542-019-04700-z

S.No.	Authors	Title	Source Title	DOI
99	Prajapati A.K., Prasad R.	A New Model Reduction Method for the Linear Dynamic Systems and Its Application for the Design of Compensator	Circuits, Systems, and Signal Processing	10.1007/s00034-019-01264-1
100	Divya S.V., Paul S., Pati U.C.	Structure tensor-based SIFT algorithm for SAR image registration	IET Image Processing	10.1049/iet-ipr.2019.0568
101	Mikhaylov A.A., Sladkevich S., Medvedev A.G., Prihodchenko P.V., Gun J., Sakharov K.A., Xu Z.J., Kulish V., Nikolaev V.A., Lev O.	Enhanced Thermal Buffering of Phase Change Materials by the Intramicrocapsule Sub per Mille CNT Dopant	ACS Applied Materials and Interfaces	10.1021/acsami.9b21205
102	Sahoo P.R., Ghosh S.	On computing critical delay for fixed mode radius: Centralized and decentralized control	Systems and Control Letters	10.1016/j.sysconle.2020.104647
103	T. J.P., G. N., N. R., N. K., Nallabala N.K.R., Kummara V.K., K. S., Gadige P.	Optical and spectroscopic properties of Ho <sup>3+</sup> -doped fluorophosphate glasses for visible lighting applications	Materials Research Bulletin	10.1016/j.materresbull.2019.110753
104	Hazarika S.A., Deshmukhya T., Bhanja D., Nath S.	A novel optimum constructal fork-shaped fin array design for simultaneous heat and mass transfer application in a space-constrained situation	International Journal of Thermal Sciences	10.1016/j.ijthermalsci.2019.106225
105	Yalla N., Babu N.A., Agarwal P.	A New Three-Phase Multipoint Clamped 5L-HPFC with Reduced PSD Count and Switch Stress	IEEE Transactions on Industrial Electronics	10.1109/TIE.2019.2910030
106	Edla D.R., Tripathi D., Kuppili V., Dharavath R.	Multilevel Automated Security System for Prevention of Accidents at Unmanned Railway Level Crossings	Wireless Personal Communications	10.1007/s11277-019-06952-4
107	Kumar P., Bhowmick B.	Source-Drain Junction Engineering Schottky Barrier MOSFETs and their Mixed Mode Application	Silicon	10.1007/s12633-019-00170-0
108	Sathya Priya J., Saravanan K., Sathyabama A.R.	Optimized evolutionary algorithm and supervised ACO mechanism to mitigate attacks and improve performance of adhoc network	Computer Communications	10.1016/j.comcom.2020.02.070
109	Prasad E.L., Prasad M.N.G., Reddy A.R.	Hsrnd: High-speed router design for various noc topologies	Chinese Journal of Electronics	10.1049/cje.2020.01.005
110	Tiwari S.K., Sahoo S., Wang N., Huczko A.	Graphene research and their outputs: Status and prospect	Journal of Science: Advanced Materials and Devices	10.1016/j.jsamd.2020.01.006
111	Mehar K., Panda S.K.	Nonlinear deformation and stress responses of a graded carbon nanotube sandwich plate structure under thermoelastic loading	Acta Mechanica	10.1007/s00707-019-02579-5

S.No.	Authors	Title	Source Title	DOI
112	Kale S.	Performance Improvement and Analysis of PtSi Schottky Barrier p-MOSFET Based on Charge Plasma Concept for Low Power Applications	Silicon	10.1007/s12633-019-00161-1
113	Beemkumar N., Yuvarajan D., Arulprakasajothi M., Ganesan S., Elangovan K., Senthilkumar G.	Experimental investigation and numerical modeling of room temperature control in buildings by the implementation of phase change material in the roof	Journal of Solar Energy Engineering, Transactions of the ASME	10.1115/1.4044564
114	Karthikeyan M., Sitharthan R., Ali T., Roy B.	Compact multiband CPW fed monopole antenna with square ring and T-shaped strips	Microwave and Optical Technology Letters	10.1002/mop.32106
115	Bhattacharya A., Roy B.	Investigations on an extremely compact MIMO antenna with enhanced isolation and bandwidth	Microwave and Optical Technology Letters	10.1002/mop.32084
116	Dileep G.	A survey on smart grid technologies and applications	Renewable Energy	10.1016/j.renene.2019.08.092
117	Sekhar M.C., Reddy B.P., Prakash B.P., Park S.-H.	Effects of Annealing Temperature on Phase Transformation of CoTiO <sub>3</sub> Nanoparticles and on their Structural, Optical, and Magnetic Properties	Journal of Superconductivity and Novel Magnetism	10.1007/s10948-019-05199-1
118	Sharma J.R., Das G., Roy A.B., Bose S., Mukhopadhyay S.	Design Analysis of Heterojunction Solar Cells with Aligned AZO Nanorods Embedded in p-type Si wafer	Silicon	10.1007/s12633-019-00134-4
119	Kesarla M.K., Kumar Reddy N.N., Ortiz-Chi F., Espinosa-González C.G., Torres Torres J.G., Hernandez-Como N., Godavarthi S., Martínez-Gómez L.	Transformation of g-C <sub>3</sub> N <sub>4</sub> into onion like carbon on nickel nanoparticles for ultrafast hydrogenation	Materials Chemistry and Physics	10.1016/j.matchemphys.2019.12.2157
120	Varshney G.	Reconfigurable graphene antenna for THz applications: A mode conversion approach	Nanotechnology	10.1088/1361-6528/ab60cc
121	Saha D.	Temperature-dependent electrical resistivity and magnetoresistance characteristics of Zn <sub>1-x</sub> V <sub>x</sub> O thin films above Mott critical density	Modern Physics Letters B	10.1142/S0217984920500116
122	Gotra S., Varshney G., Pandey V.S., Yaduvanshi R.S.	Super-wideband multi-input–multi-output dielectric resonator antenna	IET Microwaves, Antennas and Propagation	10.1049/iet-map.2018.6112
123	Sivaiah P., Ajay Kumar G V., Singh M M., Kumar H.	Effect of novel hybrid texture tool on turning process performance in MQL machining of Inconel 718 superalloy	Materials and Manufacturing Processes	10.1080/10426914.2019.1697444
124	Parumandla N., Adepu K.	Effect of tool shoulder geometry on fabrication of Al/Al <sub>2</sub> O <sub>3</sub> surface nano composite by friction stir processing	Particulate Science and Technology	10.1080/02726351.2018.1490361

S.No.	Authors	Title	Source Title	DOI
125	Mythili T., Ramesh J., Ramanathan P.	Innovative localization algorithm using the line of intersection technique in wireless sensor networks	Journal of Internet Technology	10.3966/160792642020032102011
126	Muhiuddin G., Mahboob A.	Int-soft ideals over the soft sets in ordered semigroups	AIMS Mathematics	10.3934/math.2020159
127	Khan A., Li J.P., Ahmad N., Sethi S., Haq A.U., Patel S.H., Rahim S.	Predicting Emerging Trends on Social Media by Modeling it as Temporal Bipartite Networks	IEEE Access	10.1109/ACCESS.2020.2976134
128	Xu X., Sun W., Vivekananda G.N., Shankar A.	Achieving concurrency in cloud-orchestrated Internet of Things for resource sharing through multiple concurrent access	Computational Intelligence	10.1111/coin.12296
129	Eftekhari A., Ramanujam B.	Erratum: In pursuit of catalytic cathodes for lithium-oxygen batteries (Journal of Materials Chemistry A (2017) 5 (7710-7731) DOI: 10.1039/C7TA01124E)	Journal of Materials Chemistry A	10.1039/c9ta90301a
130	Prusty S.B., Seshagiri S., Pati U.C., Mahapatra K.K.	Sliding mode control of coupled tank systems using conditional integrators	IEEE/CAA Journal of Automatica Sinica	10.1109/JAS.2019.1911831
131	Saikrishnan V., Karthikeyan A., Beemkumar N., Ganesan S., Yuvarajan D.	The thermal performance analyses of the solar energy-powered thermal energy storage system with MgCl <sub>2</sub> ·6H <sub>2</sub> O as PCM	Journal of the Brazilian Society of Mechanical Sciences and Engineering	10.1007/s40430-019-2106-z
132	Singh K.S., Bhaskaran P.K.	Prediction of landfalling Bay of Bengal cyclones during 2013 using the high resolution Weather Research and Forecasting model	Meteorological Applications	10.1002/met.1850
133	Sitharthan R., Karthikeyan M., Sundar D.S., Rajasekaran S.	Adaptive hybrid intelligent MPPT controller to approximate effectual wind speed and optimal rotor speed of variable speed wind turbine	ISA Transactions	10.1016/j.isatra.2019.05.029
134	Singh M.M., Kumar H., Kumar G.H., Sivaiah P., Nagesha K.V., Ajay K.M., Vijaya G.	Determination of Strength Parameters of Glass Fibers Reinforced Composites for Engineering Applications	Silicon	10.1007/s12633-019-0078-3



## List of Publications - Scopus including Conference publications for the AY:2022-23

S.No.	Authors	Title	Source Title	DOI
1	Smitha J.A., <b>Shanthi S.</b> , Kumar T., Justin S.	Optimized Routing on Wireless Body Sensor Network Using Adaptive Lion Optimization Algorithm for IoT	SSRG International Journal of Electrical and Electronics Engineering	10.14445/23488379/IJEEE-V9I12P117
2	<b>Khan M.</b> , Raya R.P., Viswanathan R.	Enhancing employee innovativeness and job performance through a culture of workplace innovation	International Journal of Productivity and Performance Management	10.1108/IJPPM-09-2020-0466
3	Beuria M.K., Shankar R., Singh S.S.	Analysis of the energy harvesting non-orthogonal multiple access technique for defense applications over Rayleigh fading channel conditions	Journal of Defense Modeling and Simulation	10.1177/15485129211021168
4	Shankar R., Nandi S., Rupani A.	Channel capacity analysis of non-orthogonal multiple access and massive multiple-input multiple-output wireless communication networks considering perfect and imperfect channel state information	Journal of Defense Modeling and Simulation	10.1177/15485129211000139
5	Pandya S., Wakchaure M.A., Shankar R., Annam J.R.	Analysis of NOMA-OFDM 5G wireless system using deep neural network	Journal of Defense Modeling and Simulation	10.1177/1548512921999108
6	Chaudhary B.P., Shankar R., Mishra R.K.	A tutorial on cooperative non-orthogonal multiple access networks	Journal of Defense Modeling and Simulation	10.1177/1548512920986627
7	Bhardwaj L., Mishra R.K., Shankar R.	Sum rate capacity of non-orthogonal multiple access scheme with optimal power allocation	Journal of Defense Modeling and Simulation	10.1177/1548512920983531
8	<b>Tripathi S.K.</b> , Joshi A.M.	Sub-10 pA/V Transconductance Amplifier Using 0.9 V, 32 nm Carbon Nanotube Field Effect Transistor	Journal of Circuits, Systems and Computers	10.1142/S021812662220002X
9	<b>Logesh Babu R.</b> , Gurumoorthy S., Parameshachari B.D., Christalin Nelson S., Hua Q.	End-to-End Deep Policy Feedback-Based Reinforcement Learning Method for Quantization in DNNs	Journal of Circuits, Systems and Computers	10.1142/S0218126622502322
10	Shanthi S., <b>Nidhya R.</b> , Perumal U., Kumar M.	An efficient iot framework for patient monitoring and predicting heart disease based on machine learning algorithms	Tele-Healthcare: Applications of Artificial Intelligence and Soft Computing Techniques	10.1002/9781119841937.ch8
11	Pavithra D., Jayanthi A.N., <b>Nidhya R.</b> , Balamurugan S.	Autism screening tools with machine learning and deep learning methods: A review	Tele-Healthcare: Applications of Artificial Intelligence and Soft Computing Techniques	10.1002/9781119841937.ch10
12	Bhardwaj L., Mishra R.K., <b>Shankar R.</b>	Investigation of low-density parity check codes concatenated multi-user massive multiple-input multiple-output systems with imperfect channel state information	Journal of Defense Modeling and Simulation	10.1177/1548512920968639
13	Shankar R.	Examination of a non-orthogonal multiple access scheme for next generation wireless networks	Journal of Defense Modeling and Simulation	10.1177/1548512920951277

S.No.	Authors	Title	Source Title	DOI
14	Sangeetha M., Karthikeyini C., Vasundhara S., Saravanan D., <b>Arunkumar G.</b>	Detection and Classification of Skin Cancer by Using a Parallel Deconvolutional Network Model	International Interdisciplinary Humanitarian Conference for Sustainability, IHC 2022 - Proceedings	10.1109/IIHC55949.2022.10059956
15	Gandi R., Charan K.D., <b>Naidu K.B.R.</b> , Naidu K.V.V.S.T., Raju Y.R.	An Hybrid Authentication Mechanism for Cloud Server to Enhance the Computational Efficiency	4th International Conference on Emerging Research in Electronics, Computer Science and Technology, ICERECT 2022	10.1109/ICERECT56837.2022.10059808
16	<b>Sivakumar M.</b> , Prathyusha M., Sasikala C., Anandaraj A., Indirani M.	Machine Learning Based Breast Cancer Detection Using Logistic Regression	2nd IEEE International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering, ICATIECE 2022	10.1109/ICATIECE56365.2022.10047448
17	<b>Babu N.J.</b> , Bhargav J., Mounica V., Kumar E.S.	A Review on Machine Learning and Deep Learning Methods to Fortify Cyberspace	2022 1st International Conference on Computational Science and Technology, ICCST 2022 - Proceedings	10.1109/ICCST55948.2022.10040312
18	<b>Narayanan P.</b> , Sri Harsha N., Sai Rupesh G., Redy S.K., Rupesh S., Yeswanth M.	A Generic Algorithm for Controlling an Eyeball-based Cursor System	International Conference on Automation, Computing and Renewable Systems, ICACRS 2022 - Proceedings	10.1109/ICACRS55517.2022.10029332
19	<b>Agrawal D.</b> , Maheshwari S.	High Performance Current-Mode Four Quadrant Analog Multiplier Circuit	2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies, IMPACT 2022	10.1109/IMPACT55510.2022.10029193
20	Thilagavathi J., Lavanya K., <b>Elango S.</b> , Santhoshi M., Muthumanickam T., Ramachandran G.	Analysis of Artificial Intelligence in Medical Sectors	Proceedings - International Conference on Augmented Intelligence and Sustainable Systems, ICAISS 2022	10.1109/ICAISS55157.2022.10010820
21	Kumar T.S., Meena R., Mani P.K., Ramya S., <b>Khandan K.L.</b> , Mohammed A., Ramkumar M.S.	Deep Learning based Fault Detection in Power Transmission Lines	4th International Conference on Inventive Research in Computing Applications, ICIRCA 2022 - Proceedings	10.1109/ICIRCA54612.2022.9985700

S.No.	Authors	Title	Source Title	DOI
22	<b>Sathish K.</b> , Mohanraj A., Raman R., Sudha V., Kumar A., Vijayabhaskar V.	IoT based Mobile App for Skin Cancer Detection using Transfer Learning	6th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2022 - Proceedings	10.1109/I-SMAC55078.2022.9987331
23	Shahyeez Ahamed B.S.H., <b>Usha R.</b> , Sreenivasulu G.	A Deep Learning-based Methodology for Predicting Monkey Pox from Skin Sores	MysuruCon 2022 - 2022 IEEE 2nd Mysore Sub Section International Conference	10.1109/MysuruCon55714.2022.9972746
24	Sharma G., <b>Ashok Kumar T.</b> , Greeshma V., Manasse M.	Acoustic Sensor-Based Approach for Detecting Damage in Masonry Structures	2022 2nd International Conference on Computer Science, Engineering and Applications, ICCSEA 2022	10.1109/ICCSEA54677.2022.9936438
25	<b>Shanthi S.</b> , Saradha S., Smitha J.A., Prasath N., Anandakumar H.	An efficient automatic brain tumor classification using optimized hybrid deep neural network	International Journal of Intelligent Networks	10.1016/j.ijin.2022.11.003
26	<b>Saha S.</b> , Das A.N., Talukdar P.	A Mathematical Analysis on Covid-19 Transmission Using Seir Model	Springer Proceedings in Complexity	10.1007/978-3-030-99792-2_123
27	<b>Kusuma S.</b> , Vasundharadevi G., Abhinay Kanth D.M.	A Hybrid Model for Skin Disease Classification using Transfer Learning	Proceedings of the 2022 3rd International Conference on Intelligent Computing, Instrumentation and Control Technologies: Computational Intelligence for Smart Systems, ICICICT 2022	10.1109/ICICICT54557.2022.9917705
28	Shanthi S., Akshaya V.S., Smitha J.A., Bommy M.	Hybrid TABU search with SDS based feature selection for lung cancer prediction	International Journal of Intelligent Networks	10.1016/j.ijin.2022.09.002
29	<b>Ayesha Tanveer S.</b> , Sree N.M.S., Bhavana B., Varsha D.H.	Smart Agriculture System using IOT	Proceedings - 2022 IEEE World Conference on Applied Intelligence and Computing, AIC 2022	10.1109/AIC55036.2022.9848948
30	Narasima Venkatesh A., Mahaboob John Y.M., Ananthi P., Adusumalli B., <b>Manikumar T.</b> , Pant B.	A Novel Deep Learning Approach of BH & SH on MANET basis Traffic Prediction with Big Data	Proceedings of 3rd International Conference on Intelligent Engineering and Management, ICIEM 2022	10.1109/ICIEM54221.2022.9853135
31	Ramesh P., Gouda P.K., <b>Lakshmikhandan K.</b> , Ramanathan G., Bharatiraja C.	A three port bidirectional DC-DC converter for PV – Battery – DC microgrid application using fuzzy logic control	Materials Today: Proceedings	10.1016/j.matpr.2022.08.066
32	<b>Vivekananda G.N.</b> , Ali A.R.H., Arun S., Mishra P., Sengar R., Krishnamoorthy R.	Cloud Based Effective Health Care Management System With Artificial Intelligence	2022 IEEE 7th International conference for Convergence in Technology, I2CT 2022	10.1109/I2CT54291.2022.9825457

S.No.	Authors	Title	Source Title	DOI
33	Veeraiah V., <b>Rajaboina N.B.</b> , Rao G.N., Ahamad S., Gupta A., Suri C.S.	Securing Online Web Application for IoT Management	2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022	10.1109/ICACITE53722.2022.9823733
34	Whig V., Othman B., Gehlot A., <b>Haque M.A.</b> , Qamar S., Singh J.	An Empirical Analysis of Artificial Intelligence (AI) as a Growth Engine for the Healthcare Sector	2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022	10.1109/ICACITE53722.2022.9823607
35	Ahmad P., <b>Qamar S.</b> , Shen L., Rizvi S.Q.A., Ali A., Chetty G.	MS UNet: Multi-scale 3D UNet for Brain Tumor Segmentation	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	10.1007/978-3-031-09002-8_3
36	Ramesh P., <b>Balaji Damodhar T.S.</b> , Sathyasekar K., Vinoth J., Bharatiraja C.	Minimization of leakage current in a maximum boost control impedance source transformer-less inverter	Materials Today: Proceedings	10.1016/j.matpr.2022.06.127
37	<b>Mageshkumar N.</b> , Vijayaraj A., Arunpriya N., Sangeetha A.	Efficient spam filtering through intelligent text modification detection using machine learning	Materials Today: Proceedings	10.1016/j.matpr.2022.05.364
38	Al Tahan, M., Davvaz, B., Mahboob, A., Khan, N.M.	On a Generalization of Fuzzy Filters of Ordered Semigroups	New Mathematics and Natural Computation	10.1142/S1793005723500187
39	Nagesha, K.V., Arunkumar, D., Mahesh Kumar, G., Yadav, R., Khakha, U., Vishwakarma, B., Renu	Parametric study on four station ball mill for synthesis of ultrafine powders	Materials Today: Proceedings	10.1016/j.matpr.2023.04.360
40	Sivaiah, P., Sudheera, M., Muralidhar Singh, M., Yuvaraj, C., Chengal Reddy, V., Lakshmi Narasimhamu, K., Dilip Kumar, M.	Investigation on turning process performance during machining of 15-5PH stainless steel material with eco-friendly machining technique	Materials Today: Proceedings	10.1016/j.matpr.2023.03.303
41	Chengal Reddy, V., Sivaiah, P., Nishkala, T., Dilip Kumar, M., Jameel Basha, S.M., Sudheera, M.	Selection of best WEDM process parameters using grey relational analysis method	Materials Today: Proceedings	10.1016/j.matpr.2023.03.443
42	Jha, D., Saurabh, S.	NACA2412 airfoil based method for design and aerodynamic analysis of small HAWT using modified BEM approach	Science and Technology for Energy Transition (STET)	10.2516/stet/2022023

S.No.	Authors	Title	Source Title	DOI
43	Telagam, N., Kandasamy, N., Naidu, U.S.	Smart Device for Women's Safety Designed Using IoT and Virtual Instrumentation Browser	International Journal of Interactive Mobile Technologies	10.3991/ijim.v17i02.35227
44	Ekka, A., Panda, A., Ranjan Mahapatra, T., Mishra, D.	Erosion and wear analysis of fly ash filled GFRP composite	Materials Today: Proceedings	10.1016/j.matpr.2023.01.140
45	Xia, W., Vuga, A., Jagota, V., Bhola, J.	A Genetic Algorithm of Computer-Aided Architectural Design Based on BIM	Computer-Aided Design and Applications	10.14733/cadaps.2023.S3.225-237
46	Shankar, R., Beuria, M.K., Singh, S.S., Ana, F., Mehraj, H., Krishnan, V.G.	5g noma defense application environment and stacked lstm network architectures	Journal of Mobile Multimedia	10.13052/jmm1550-4646.1914
47	Mishra, B.P., Barik, M.	Free Flexural Vibration Analysis of Thin Plates Using NURBS-Augmented Finite-Element Method	Journal of Vibration Engineering and Technologies	10.1007/s42417-022-00639-0
48	Shankar, R., Sarojini, B.K., Mehraj, H., Kumar, A.S., Neware, R., Singh Bist, A.	Impact of the learning rate and batch size on NOMA system using LSTM-based deep neural network	Journal of Defense Modeling and Simulation	10.1177/15485129211049782
49	Shankar, R., Krishna, P., R, N.	Examination of the multiple-input multiple-output space-time block-code selective decode and forward relaying protocol over non-homogeneous fading channel conditions	Journal of Defense Modeling and Simulation	10.1177/15485129211047598
50	Nallabala, N.K.R., Singh, L.P., Yuvaraj, C., Sambasivam, S., Kumar, S., Shankar, M.V., Alhammadi, S., Kushvaha, S.S., Kummara, V.K., Bakash, K.R., Minnam Reddy, V.R.	UV-to-NIR broadband photodetecting sensors using n-TiO2 nanorods/p-Si heterojunction in lateral and vertical configurations	Applied Physics A: Materials Science and Processing	10.1007/s00339-023-06649-3
51	Jenifer, A., Lakshmikhandan, K., Pomurugan, P., Srimannarayana, V.V., Ganesh, C.S.S., Kalyan, D., Sathish, T.	Wind and Solar Hybrid Power Generation for DC grid	Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023	10.1109/ICIPTM57143.2023.10118288
52	Rajitha Jasmine, R., Nimmagadda, P., Sudhakar, K., Benitha Christinal, J., Rajasekar, P., Syed Musthafa, A.	Perceptual Video Summarization Using Keyframes Extraction Technique	Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023	10.1109/ICIPTM57143.2023.10118236

S.No.	Authors	Title	Source Title	DOI
53	Sujatha, G., Ayyannan, M., Priya, S.G., Arun, V., Arularasan, A.N., Kumar, M.J.	Hybrid Optimization Algorithm to Mitigate Phishing URL Attacks In Smart Cities	Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023	10.1109/ICIPTM57143.2023.10118171
54	Madhu Midhan, T., Devika, K., Rajakumar, R., Manikandan, R., Dinesh, K., Sreedevi, M.	A review on Machine Learning based IDS approaches in Wireless sensor networks	2023 9th International Conference on Advanced Computing and Communication Systems, ICACCS 2023	10.1109/ICACCS57279.2023.10112982
55	Madhu Midhan, T., Selvaraj, P., Harshavardan Kumar Raju, M., Bhanu Prakash Reddy, M., Bhaskar, T.	Classification of Mental Health and Emotion of Human from Text using Machine Learning Approaches	2023 6th International Conference on Information Systems and Computer Networks, ISCON 2023	10.1109/ISCON57294.2023.10111973
56	Anamalamudi, K., Surampudi, B.R., Peddapalyam, P., Modin, R.A.	Subjective Time Estimation to Measure the Cognitive Load of Interactive Mobile User Interfaces	Proceedings of the 2023 International Conference on Intelligent Systems for Communication, IoT and Security, ICISCoIS 2023	10.1109/ICISCoIS56541.2023.10100483
57	Prasanth, A., Velumani, M., Narasimman, S., Alex, Z.C.	Lossy Mode Resonance based Optical Fiber Sensor using Polyvinylpyrrolidone/Chitosan composite for identification of Cadmium ions in water	APSCON 2023 - IEEE Applied Sensing Conference, Symposium Proceedings	10.1109/APSCON56343.2023.10101207
58	Pradeepkumar, G., Manikandan, P., Rathika, P., Senthil, T., Thurai Raaj, B.V., Ponnurugan, P.	Smart Controller for Air Conditioning in Car using IoT	Proceedings of the 2023 2nd International Conference on Electronics and Renewable Systems, ICEARS 2023	10.1109/ICEARS56392.2023.10085112
59	Vijayalakshmi, P., Saravanan, M., Rani, M.T., Ashok, M., Palaniappan, R., Nagaraj, V.	A Novel Hybridclustering Model Forwireless Sensor Networks	Proceedings of the International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering, ICECONF 2023	10.1109/ICECONF57129.2023.100083615
60	Elango, S., Manjunath, L., Prasad, D., Sheela, T., Ramachandran, G., Selvaraju, S.	Super Artificial Intelligence Medical Healthcare Services and Smart Wearable System based on IoT for Remote Health Monitoring	Proceedings - 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023	10.1109/ICSSIT55814.2023.10060928

S.No.	Authors	Title	Source Title	DOI
61	Sundar, R., Ramadass, S., Meeha, D., Subramanian, B., Shankar, S.S., Parasa, G.	Evaluating the Solutions to Predict the Impact of Lung Cancer with an Advanced Intelligent Computing Method	Proceedings - 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023	10.1109/ICSSIT55814.2023.10060899
62	Sen, R., Mandal, A.K., Goswami, S., Chakraborty, B.	Prediction of Particulate Matter (PM2.5) Across India Using Machine Learning Methods	Lecture Notes in Networks and Systems	10.1007/978-981-19-6634-7_38
63	Aggarwal, V., Kesharwani, S., Khosla, A., Upadhyay, P., Kumar, A.	A Study on Tunable SIW-Based Self-Diplexing Antenna	Lecture Notes in Networks and Systems	10.1007/978-981-19-6661-3_20
64	Kumar, C.S., Fernandes, F.D.	Thin-Films for Machining Difficult-to-Cut Materials: Challenges, Applications, and Future Prospects	Thin-Films for Machining Difficult-to-Cut Materials: Challenges, Applications, and Future Prospects	10.1201/9781003340553
65	Kumar, A., Sharan, N., Ghorai, S.K.	Visible light communications: Applications and research advances	Visible Light Communications: Applications and Research Advances	10.52305/RYER7275
66	Hanief Kohli, A., Hanief, M., Jagota, V.	A retrospection of the effect of nitriding processes on the AISI H13 tool steel	Advances in Materials and Processing Technologies	10.1080/2374068X.2022.2093012
67	Katta L.N., Natarajan M., Pasupuleti T., <b>Sivaiah P.</b> , Chittor Naga Venkata S.	Neural Network Model for Machinability Investigations on CNC Turning of AA5052 for Marine Applications with MQL	SAE Technical Papers	10.4271/2022-28-0515
68	Kuppusamy P., Kumari N.M.J., Alghamdi W.Y., Alyami H., <b>Ramalingam R.</b> , Javed A.R., Rashid M.	Job scheduling problem in fog-cloud-based environment using reinforced social spider optimization	Journal of Cloud Computing	10.1186/s13677-022-00380-9
69	Thiruneelakandan A., Kaur G., <b>Vadnala G.</b> , Bharathiraja N., Pradeepa K., Retnadhas M.	Measurement of oxygen content in water with purity through soft sensor model	Measurement: Sensors	10.1016/j.measen.2022.100589
70	Ashvanth B.	A tunable frequency selective surface integrated high isolation MIMO antenna for THz applications	Engineering Research Express	10.1088/2631-8695/ac92c6
71	Baskar M., Selvaganapathi S., <b>Sridhar N.</b> , Muthupandian S.	Modeling of wind energy conversion system with variable load and variable source	AIP Conference Proceedings	10.1063/5.0115637
72	Pandya S., Krishna P., <b>Shankar R.</b> , Singh Bist A.	Examination of the fifth-generation vehicular simultaneous wireless information and power transfer cooperative non-orthogonal multiple access network in military scenarios considering time-varying and imperfect channel state information conditions	Journal of Defense Modeling and Simulation	10.1177/15485129211033040

S.No.	Authors	Title	Source Title	DOI
73	Raghav R.S., Prabu U., Rajeswari M., Saravanan D., <b>Thirugnanasambandam K.</b>	Cuddle death algorithm using ABC for detecting unhealthy nodes in wireless sensor networks	Evolutionary Intelligence	10.1007/s12065-021-00570-5
74	<b>Anandkumar R.</b> , Kalpana R.	A Fibonacci p-code traversing and unified chaotic map-based image encryption algorithm	Journal of Ambient Intelligence and Humanized Computing	10.1007/s12652-021-03659-y
75	<b>Devi S.V.S.G.</b> , Ramthu S., Sanjana M.	PADDY CROP DISEASE PREDICTION- A TRANSFER LEARNING TECHNIQUE	Journal of Pharmaceutical Negative Results	10.47750/pnr.2022.13.S07.485
76	<b>Abbasi A.</b> , Mozumder M.R., Jabeen A.	Characterization of b-generalized Derivations in Rings with Involution	Springer Proceedings in Mathematics and Statistics	10.1007/978-981-19-3898-6_1
77	Khan A.N., Ali S., <b>Abbasi A.</b> , Ayedh M.	On Certain * -differential Identities in Prime Rings with Involution	Springer Proceedings in Mathematics and Statistics	10.1007/978-981-19-3898-6_13
78	Kumar S.P., Sundar R., <b>Anandraj B.</b> , Galeebathullah B.	MULTIPLE SERVICE AUTHENTICATIONS WITH CLOUD OTP AS A SERVICE	Journal of Pharmaceutical Negative Results	10.47750/pnr.2022.13.S01.109
79	<b>Sharma M.</b> , Baloni B.D.	Influence of Mach number on the off-design performance of S-shaped compressor transition duct under the combined effect of curvature and pressure gradient	Australian Journal of Mechanical Engineering	10.1080/14484846.2022.2148367
80	Shankar A.N., <b>Jagota V.</b> , Jamadon N.H., Raffik R., Suneetha V.L., Samori I.A., Karnan L.	An AHP-TOPSIS Approach for Optimizing the Mechanical Performance of Natural Fiber-Based Green Composites	Advances in Materials Science and Engineering	10.1155/2022/1263237
81	<b>Shankar R.</b> , Bangare J.L., Kumar A., Gupta S., Mehraj H., Kulkarni S.S.	Analysis of an LSTM-based NOMA Detector over Time Selective Nakagami-m Fading Channel Conditions	Journal of Telecommunications and Information Technology	10.26636/jtit.2022.161222
82	<b>Goli M.</b> , Khan M.	Behavioural intention to use social networking mobile apps: the case of TikTok	International Journal of Business Innovation and Research	10.1504/ijbir.2022.125667
83	<b>Abbasi A.</b> , Khan M.S., Mozumder M.R.	On Commutativity and Centralizers of Prime Ring with Involution	Thai Journal of Mathematics	
84	Huo Z., Luo X., Wang Q., <b>Jagota V.</b> , Jawarneh M., Sharma M.	Design and simulation of vehicle vibration test based on virtual reality technology	Nonlinear Engineering	10.1515/nleng-2022-0217
85	Zhang Y., Kaur A., <b>Jagota V.</b> , Neware R.	Study on data mining method of network security situation perception based on cloud computing	Journal of Intelligent Systems	10.1515/jisys-2021-0264
86	Priscila S.S., Sharma A., Vanithamani S., Ahmad F., Mahaveerakannan R., Alrubaie A.J., <b>Jagota V.</b> , Singh B.K.	Risk-Based Access Control Mechanism for Internet of Vehicles Using Artificial Intelligence	Security and Communication Networks	10.1155/2022/3379843



S.No.	Authors	Title	Source Title	DOI
87	Nageswaran S., <b>Arunkumar G.</b> , Bisht A.K., Mewada S., Kumar J.N.V.R.S., Jawarneh M., Asenso E.	Lung Cancer Classification and Prediction Using Machine Learning and Image Processing	BioMed Research International	10.1155/2022/1755460
88	Ladkat A.S., Bangare S.L., <b>Jagota V.</b> , Sanober S., Beram S.M., Rane K., Singh B.K.	Deep Neural Network-Based Novel Mathematical Model for 3D Brain Tumor Segmentation	Computational Intelligence and Neuroscience	10.1155/2022/4271711
89	Sathyanarayana Murthy T., <b>Mohan Krishna Varma N.</b> , Ravuri D., Kishore Babu D., Nazeer S.	Classification of Precious and Non-precious Tweets Using Deep Learning	Lecture Notes in Networks and Systems	10.1007/978-981-19-1018-0_33
90	<b>Adigopula V.K.</b> , Bogi Reddy C., Garg A., Kumar R., Ramana G.V.	Laboratory investigation of modified subgrade clay soil mix with steel slag and lime using static and dynamic test approach	International Journal of Geotechnical Engineering	10.1080/19386362.2022.2089443
91	<b>Varma N.M.K.</b> , Padmanabha Reddy Y.C.A., Rajesh Kumar Reddy C.	Performance Analysis of Machine Learning Algorithms for Website Anti-phishing	Lecture Notes on Data Engineering and Communications Technologies	10.1007/978-981-16-9113-3_16
92	<b>Vamsi, B;</b> Al Bataineh, A; Doppala, BP	Cr doping-induced ferromagnetism in the spin-glass Cd <sub>1-x</sub> MnxTe studied by x-ray magnetic circular dichroism	INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS	
93	Vamsi, B; Al Bataineh, A; Doppala, BP	A Secured and Decentralized Medical Document Management Methodology using a Private Block Chain	INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS	
94	Shankar, AN; Jagota, V; Jamadon, NH; Raffik, R; Suneetha, VL; Samori, IA; Karnan, L	MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> )-/Amine-Functionalized Graphene-Supported Self-Assembled Co <sub>9</sub> S <sub>8</sub> Nanoflower for Ultrastable Hybrid Supercapacitor	ADVANCES IN MATERIALS SCIENCE AND ENGINEERING	10.1155/2022/1263237
95	Huo, ZY; Luo, XW; Wang, Q; Jagota, V; Jawarneh, M; Sharma, M	Binder-free Co-Ni hexacyanoferrate as a battery-type electrode material for hybrid supercapacitors	NONLINEAR ENGINEERING - MODELING AND APPLICATION	10.1515/nleng-2022-0217
96	Yao, W; Jagota, V; Kumar, R; Ather, D; Jain, V; Quraishi, SJ; Osei-Owusu, J	Optimizing pyrolysis process parameters of plastic grocery bag, with mass-energy assessment and characterization of oil at optimal condition	SCIENTIFIC PROGRAMMING	10.1155/2022/2517077
97	Abbasi, A; Khan, MS; Mozumder, MR	MS UNet: Multi-scale 3D UNet for Brain Tumor Segmentation	THAI JOURNAL OF MATHEMATICS	

S.No.	Authors	Title	Source Title	DOI
98	Venkatesh, B., Lakshmipathi, A.R., Prakash, T., Rao, P.K.V., Verma, R., Nagabhooshanam, N., Yishak, S.	Influence of Metallic Particles on Properties of Aluminium Composites through Taguchi Technique	Advances in Materials Science and Engineering	10.1155/2023/9637728
99	Mahboob, A., Muhiuddin, G.	M-Polar cubic $p(q$ and $a)$ -ideals of BCI-Algebras	Discrete Mathematics, Algorithms and Applications	10.1142/S1793830923500131
100	Nandagopal, V., Balaji Damodhar, T.S., Vijayapriya, P., Thamilmaran, A.	Improving Power Quality by DSTATCOM Based DQ Theory with Soft Computing Techniques	Intelligent Automation and Soft Computing	10.32604/iasc.2023.032039
101	Bardhan Roy, A.	Optical studies and validation of multidimensional hybrid metamaterial embedded light trapping structure for p-Si/n-ZnO based thin c-Si solar cell	Materials Research Innovations	10.1080/14328917.2022.2087026
102	Tasgara, T.D., Kumar, B.	Assessment of land use/land cover change impact on streamflow: a case study over upper Guder Catchment, Ethiopia	Sustainable Water Resources Management	10.1007/s40899-022-00783-1
103	Chen, L., Jagota, V., Kumar, A.	RETRACTED ARTICLE: Research on optimization of scientific research performance management based on BP neural network	International Journal of System Assurance Engineering and Management	10.1007/s13198-021-01263-z
104	Kandasamy, N., Telagam, N., Chitra, K.	Design of novel low power architectures of 4:2, 5:2 compressors and 2-bit counter using 7 nm FinFET technology	Journal of Ambient Intelligence and Humanized Computing	10.1007/s12652-022-04498-1
105	Lohani, T.K., Ayana, M.T., Mohammed, A.K., Shabaz, M., Dhiman, G., Jagota, V.	A comprehensive approach of hydrological issues related to ground water using GIS in the Hindu holy city of Gaya, India	World Journal of Engineering	10.1108/WJE-04-2021-0223
106	Muhiuddin, G., Abughazalah, N., Mahboob, A., Alotaibi, A.G.	Hyperstructure Theory Applied to BF-Algebras	Symmetry	10.3390/sym15051106
107	Vamsi, B., Mahanty, M., Doppala, B.P.	An Auto Encoder-Decoder Approach to Classify the Bird Sounds Using Deep Learning Techniques	SN Computer Science	10.1007/s42979-023-01686-4
108	Oikawa, R., Doi, A., Ishida, M., Chakraborty, B.	Automatic detection and visualization system for coronary artery calcification using optical frequency domain imaging	Artificial Life and Robotics	10.1007/s10015-023-00854-2
109	Mahanty, M., Vamsi, B., Madhavi, D.	A Corpus-Based Auto-encoder-and-Decoder Machine Translation Using Deep Neural Network for Translation from English to Telugu Language	SN Computer Science	10.1007/s42979-023-01678-4
110	Roy, S., Sahu, P.K., Pradhan, D., Tripathy, N., Kar, J.P.	Resistive Switching Behavior of TiO <sub>2</sub> Nanostructures Grown by Dip Coating Process	Mechanisms and Machine Science	10.1007/978-3-031-20353-4_32
111	Vishwanatha, H.M., Kumar, P., Das, A., Agrawal, A., Sathesh Kumar, C., Verma, B.B.	Prediction of the Propagation of Fatigue Cracks for a Beam Specimen in Four-Point Bending Using CASCA and FRANC2D	Lecture Notes in Mechanical Engineering	10.1007/978-981-19-3938-9_32

S.No.	Authors	Title	Source Title	DOI
112	Neelawani, M., Patil, P.	Behavior of Fully and Partially Encased Stone Column in Black Cotton Soil	Lecture Notes in Civil Engineering	10.1007/978-981-19-1862-9_8
113	Rajakumara, H.N., Pradeep, M.	Production of High Strength Eco-Concrete Incorporating Alccofine and Basalt Fiber	Lecture Notes in Civil Engineering	10.1007/978-981-19-1862-9_40
114	Chandrababu, M., Reddy, V.V.K., Kolli, C.S., Chokkanathan, K., Chandol, M.K., Gangodkar, D.	Prediction of chronic kidney disease from patient record using ensemble ranking SVM	AIP Conference Proceedings	10.1063/5.0126114
115	Raji, A., Karthikeyan, M., Krishnan, G.S., Kumar, S.M., Lakshmanan, M., Kumar, G., Seeman, M.	Tribological investigation of shot peened NiP-CN electroless coating on EN31 steel	AIP Conference Proceedings	10.1063/5.0132537
116	Gopi, R., Karthikeyan, M., Kumar, S.M., Krishnan, G.S., Lakshmanan, M., Kumar, G.	Wear behavior of heat treated and chromium nitride coated 316L SS steel against steel ball in wet condition	AIP Conference Proceedings	10.1063/5.0132535
117	Yadav, S., Sharma, R., Naidu, K.L., Shankernath, V.	First principle calculations of electronic and optical properties of NiSi <sub>2</sub>	AIP Conference Proceedings	10.1063/5.0134133
118	Yadav, S., Srinivasulu, C., Naiduand, K.L., Shankernath, V.	Deconvolution and quantitation of Raman spectrum of graphene oxide synthesized by improved hummers method	AIP Conference Proceedings	10.1063/5.0134130
119	Kiran, S.B., Krishna, R., Bhanuprakashreddy, D., Divya, M., Yadav, A.A.K., Suresh, P., Rao, T.V.V.L.N., Colak, I.	Structural analysis of grey iron nose leg component produced by lost foam casting	AIP Conference Proceedings	10.1063/5.0134167
120	Krishna, R., Akram, S., Madhuri, P., Rao, T.V.V.L.N.	Machine learning application in evaluation of graphite plates	AIP Conference Proceedings	10.1063/5.0134170
121	Agrawal, A.K., Kumar, C., Sai, H., Sarandeep, Babu, S., Naik, V.K., Rao, T.V.V.L.N.	Study of deformation behaviour on axial compression of aluminium tubes	AIP Conference Proceedings	10.1063/5.0134288
122	Phadatare, H., Krishna, R., Balaji, P.	Design and analysis of tuned vibrational absorber for a vibrating system with unbalance excitation	AIP Conference Proceedings	10.1063/5.0134206
123	Pattar, J., Ramesh, D., Amruta, P., Mounika, M., Sumanjali, N., Vaishnavi, P., Teja, D.R., Narasimha, B.V., Moinuddin, K.S., Krishna, P.M.	Design, fabrication and testing of automatic side standretrieval system using electronic components	AIP Conference Proceedings	10.1063/5.0134129

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
124	Vardhan, P.V., Reddy, C.V.A., Krishna, R., Reddy, N.Y., Kumar, K.S., Kumar, B.S., Rao, T.V.V.L.N.	Machine learning applications for early-stage diagnosis of diabatic patients	AIP Conference Proceedings	10.1063/5.0134168
125	Sreenivasan, M., Babu, G.E., Krishna, R., Lyutyk, M., Barosh, M.	Correlation between X-ray diffraction line profile and microstructure of spheroidized Alumina micropowder for 3D printing application	AIP Conference Proceedings	10.1063/5.0134169
126	Balakrishnan, D., Raja, J., Rajagopal, M., Sudhakar, K., Janani, K.	An IoT-Based System for Fault Detection and Diagnosis in Solar PV Panels	E3S Web of Conferences	10.1051/e3sconf/202338705009

## List of Publications - Scopus including Conference publications for the AY:2021-22

S.No.	Authors	Title	Source Title	DOI
1	Chakraborty D., Bej S., <b>Sahoo S</b>	Novel Nanoporous Ti-Phosphonate Metal-Organic Framework for Selective Sensing of 2,4,6-Trinitrophenol and a Promising Electrode in an Energy Storage Device	ACS Sustainable Chemistry and Engineering	10.1021/acssuschemeng.1c04877
2	<b>Goli M.</b> , Vemuri V.V.	Users' in-game purchase intention: The effects of flow experience and satisfaction	Journal of Electronic Commerce in Organizations	10.4018/JECO.2021100101
3	Anandkumar R.	Hybrid fuzzy logic and artificial Flora optimization algorithm-based two tier cluster head selection for improving energy efficiency in WSNs	Peer-to-Peer Networking and Applications	10.1007/s12083-021-01174-7
4	Ye C., Song X., <b>Vivekananda G.</b>	Intelligent physical systems for strategic planning and management of enterprise information	Peer-to-Peer Networking and Applications	10.1007/s12083-020-00966-7
5	Naveen Kumar P.V., Yashwanth	Link Maintenance Probability for Pool based Spectrum Handoff in Cognitive Radio Networks	3rd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2021	10.1109/ICECCE52056.2021.9514128
6	Arora S., Kaur S., <b>Satsangi S.</b> , K	Yearly Estimation of Substation Energy Savings with Smart Enabled CVR in Distribution Network and Photovoltaic Inverter	2021 International Conference on Nascent Technologies in Engineering, ICNET 2021 - Proceedings	10.1109/ICNTE51185.2021.9487786
7	De S., Acharya S., <b>Sahoo S.</b> , Das	2D Materials for Solar Cell Applications	Materials for Solar Energy Conversion: Materials, Methods and Applications	10.1002/9781119752202.ch9
8	Das A., <b>Kumar P.</b> , Agarawal A., K	Performance Evaluation of Uncoated and Coated Carbide Tools During Hard Machining of AISI 4340 Steel	Springer Proceedings in Materials	10.1007/978-981-16-3937-1_35
9	<b>Kumar C.S.</b> , <b>Kumar P.</b> , <b>Kumar K.</b>	Investigation on the Stress Distribution During Hard Turning of AISI 52100 Steel Using Al <sub>2</sub> O <sub>3</sub> /TiCN Cutting Tool Coated with Mono-layered AlCrN and Multi-layered AlTiN/TiN Coating	Springer Proceedings in Materials	10.1007/978-981-16-3937-1_27
10	<b>Basappa M.G.</b> , Manu B.	Aerobic sludge granulation and enhanced dicamba removal efficiency in the presence of AQS redox mediator in a lab-scale anaerobic-aerobic treatment method	Wastewater Treatment Reactors: Microbial Community Structure	10.1016/B978-0-12-823991-9.00018-6

S.No.	Authors	Title	Source Title	DOI
11	Kesavan T., Nagendran K., Sent	Smart Monitoring System for Leakage Current and Excess Power Harvesting System for Industrial Applications	3rd IEEE International Virtual Conference on Innovations in Power and Advanced Computing Technologies, i-PACT 2021	10.1109/i-PACT52855.2021.9696585
12	<b>Shilpi</b> , Gautam P.R., Kumar S., K	A Comparative Analysis of Distance-based Node Localization in Wireless Sensor Network	Proceedings of the 8th International Conference on Signal Processing and Integrated Networks, SPIN 2021	10.1109/SPIN52536.2021.9566136
13	<b>Ponukumati B.K.</b> , Sinha P., Mah	Pattern Recognition Technique Based Fault Detection in Multi-Microgrid.	IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing, and Communication, AESPC 2021 - Proceedings	10.1109/AESPC52704.2021.9708541
14	Balamurali Krishna P., Sinha P.,	Power System Fault Detection Using Image Processing And Pattern Recognition	IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing, and Communication, AESPC 2021 - Proceedings	10.1109/AESPC52704.2021.9708475
15	<b>Kumar K., Kumar Ch.S.</b> , Masanta	A review on TIG welding technology variants and its effect on weld geometry	Materials Today: Proceedings	10.1016/j.matpr.2021.07.308
16	Kamal M.M., <b>Abbas A.</b> , Prasad V	A numerical study on the performance characteristics of low head Francis turbine with different turbulence models	Materials Today: Proceedings	10.1016/j.matpr.2021.02.155
17	<b>Shankar R.</b> , Sarojini B.K., Mehra	Impact of the learning rate and batch size on NOMA system using LSTM-based deep neural network	Journal of Defense Modeling and Simulation	10.1177/15485129211049782
18	<b>Shankar R.</b> , Krishna P., R N.	Examination of the multiple-input multiple-output space-time block-code selective decode and forward relaying protocol over non-homogeneous fading channel conditions	Journal of Defense Modeling and Simulation	10.1177/15485129211047598
19	Arun I., Yuvaraj C., Reddy G.C.	Electric discharge coating process variation and its wear properties	International Journal of Surface Science and Engineering	10.1504/IJSURFSE.2021.116329

S.No.	Authors	Title	Source Title	DOI
20	Goli, M; Vemuri, VV	Controlling the morphology of nanocrystalline Y(OH)(3) powders synthesized by microwave-hydrothermal route and effect of annealing	JOURNAL OF ELECTRONIC COMMERCE IN ORGANIZATIONS	10.4018/JECO.2021100101
21	Abbas, A; Alam, M; Kumar, R	Ordered Gamma-Semigroups and Fuzzy Gamma-Ideals	MATERIALS TODAY-PROCEEDINGS	10.1016/j.matpr.2020.08.796
22	Kumar, R; Abbas, A; Dwivedi, C	The Relations I-m(gamma), I-gamma(n), B-gamma(m)n, (gamma)Q(m)(n) and H-gamma(m)n in le-Gamma-Semigroups	MATERIALS TODAY-PROCEEDINGS	10.1016/j.matpr.2020.08.805
23	Nayyer A., <b>Upadhyay P.</b>	Role of artificial intelligence in healthcare system: An overview	Mobile Health: Advances in Research and Applications - Volume II	
24	<b>Nidhya R.</b> , Kumar M., Balamurug	Tele-Healthcare: Applications of artificial intelligence and soft computing techniques	Tele-Healthcare: Applications of Artificial Intelligence and Soft Computing Techniques	10.1002/9781119841937
25	<b>Nidhya R.</b> , Kumar M., Balamurug	Preface	Tele-Healthcare: Applications of Artificial Intelligence and Soft Computing Techniques	
26	Rajkumar S., <b>Sathesh K.</b> , Mulatu	Chip Layout for Adaptive Line Enhancer Design using Adaptive Filtering Algorithms and Metrics Computation for Auscultation Signal Separation	Journal of Beijing Institute of Technology (English Edition)	10.15918/j.jbit1004-0579.2021.102
27	Arulkumar N., Paulose J., Gaiety	Exploring social networking data sets	Social Network Analysis: Theory and Applications	10.1002/9781119836759.ch11
28	<b>Agrawal A.K.</b> , Narayanan R.G.	Prediction of load requirement and instabilities during end forming of friction stir processed AA 6063-T6 thin-walled tubes	Multidiscipline Modeling in Materials and Structures	10.1108/MMMS-05-2021-0090
29	Bojjagani S., <b>Rao P.V.V.</b> , Vemula	A secure IoT-based micro-payment protocol for wearable devices	Peer-to-Peer Networking and Applications	10.1007/s12083-021-01242-y
30	<b>Ramesh Reddy P.</b> , Abdul Gaffar	Hall and ion-slip effects on nanofluid transport from a vertical surface: Buongiorno's model	ZAMM Zeitschrift für Angewandte Mathematik und Mechanik	10.1002/zamm.202000174
31	Wang L., Kumar P., Makhatha M	Numerical simulation of air distribution for monitoring the central air conditioning in large atrium	International Journal of System Assurance Engineering and Management	10.1007/s13198-021-01420-4
32	Huang X., <b>Jagota V.</b> , Espinoza-M	Tourist hot spots prediction model based on optimized neural network algorithm	International Journal of System Assurance Engineering and Management	10.1007/s13198-021-01226-4

S.No.	Authors	Title	Source Title	DOI
33	<b>Nidhya R.</b> , Kumar M., Maheswar	Security and privacy issues in smart healthcare system using internet of things	IoT-enabled Smart Healthcare Systems, Services and Applications	10.1002/9781119816829.ch4
34	<b>Sivaiah P.</b> , Chakradhar D., Naray	Sustainable manufacturing strategies in machining	Sustainable Manufacturing Processes	10.1016/B978-0-323-99990-8.00013-8
35	<b>Panigrahy P.S.</b> , Reddy B.S., Harik	Development of Fuel Cell-Based Energy Systems for 3-ph Power Development and Internet of Things Devices	Internet of Things and Data Mining for Modern Engineering and Healthcare Applications	10.1201/9781003217398-10
36	<b>Roy A.B.</b> , Kumar K.V., Saha M.	Application and Utilization of High-Aspect-Ratio Antireflective Si Nanostructure-Embedded Optical Sensor for IoT Applications	Internet of Things and Data Mining for Modern Engineering and Healthcare Applications	10.1201/9781003217398-15
37	<b>Bag A.</b> , Pati B.B.	Fuzzy Logic-Based IoT Technique for Direct Torque Control of Induction Motor Drive	Internet of Things and Data Mining for Modern Engineering and Healthcare Applications	10.1201/9781003217398-11
38	<b>Reddy N.N.K.</b> , Krishnaiah K.V.	Gallium Nitride (GaN) Based Ultraviolet/Broadband Photodetectors Using High-k Dielectric Oxides as an Interfacial Oxide Layer	Types of Photodetectors and their Applications	
39	Naidu K.L., <b>Gadipelly T.</b> , Anbaz	Methods for Characterization and Quantitation of Nanomaterials	Nanomaterials in the Battle against Pathogens and Disease Vectors	10.1201/9781003126256-4
40	<b>Pushpalatha</b> , Prathyusha, Sindh	BER Performance using BPSK Modulation over Rayleigh and Rician Fading Channel	Proceedings - 2022 IEEE 11th International Conference on Communication Systems and Network Technologies, CSNT 2022	10.1109/CSNT54456.2022.9787656
41	<b>Paul S., Saiteja B., Rajasekharan</b>	Rayleigh Distribution-based Edge Detection in SAR Images	International Conference on Emerging Trends in Engineering and Technology, ICETET	10.1109/ICETET-SIP-2254415.2022.9791820
42	Paul S., <b>Udaysankar D., Naidu Y</b>	Uniform Distribution of Multiple Features for Remote Sensing Optical Image Matching	International Conference on Emerging Trends in Engineering and Technology, ICETET	10.1109/ICETET-SIP-2254415.2022.9791726
43	Anamalamudi K., Maddipatla L.	SmarTy: An Intelligent Voice Response System Model for Indian Local Languages	2022 6th International Conference on Trends in Electronics and Informatics, ICOEI 2022 - Proceedings	10.1109/ICOEI53556.2022.9776821



S.No.	Authors	Title	Source Title	DOI
44	Verma N., <b>Jagota V.</b> , Alimuddin,	Morphological, Structural, and Optical Properties of Doped/Codoped ZnO Nanocrystals Film Prepared by Spin Coating Technique and Their Gas Sensing Application	Journal of Nanomaterials	10.1155/2022/6250706
45	Verma N., <b>Jagota V.</b> , Alguno A.C	Characterization of Fabricated Gold-Doped ZnO Nanospheres and Their Use as a Photocatalyst in the Degradation of DR-31 Dye	Journal of Nanomaterials	10.1155/2022/7532332
46	Das A., Barrenkala D., Debnath	Comparative assessments of machining forces in 3D printed polymer composite during milling operation using two coated carbide end mills	Materials Today: Proceedings	10.1016/j.matpr.2022.04.1019
47	Rajan R., Tyagi Y.K., Das A., Ku	Development and analysis of friction characteristics of coir fiber added organic brake pad composite	Materials Today: Proceedings	10.1016/j.matpr.2022.04.1011
48	<b>Priya G.S., Sai G., Gowthami,</b> Sir	Analysis of Bit Error Rate for Multi-user TDMA-based Communication System	2022 1st International Conference on Electrical, Electronics, Information and Communication Technologies, ICEEICT 2022	10.1109/ICEEICT53079.2022.9768648
49	<b>Thangasamy V.,</b> Singh I., Karishn	Analysis of Capacity and Outage Probability for NOMA based Cellular Communication over Rician Fading Channel	2022 1st International Conference on Electrical, Electronics, Information and Communication Technologies, ICEEICT 2022	10.1109/ICEEICT53079.2022.9768575
50	Shaik B., <b>Gowd G.H.,</b> Prasad B.D	Investigations on Microstructures by Using Friction Stir Processing	Smart Innovation, Systems and Technologies	10.1007/978-981-16-6482-3_53
51	Kumar R., <b>Sahoo S.,</b> Joanni E., S	Heteroatom doping of 2D graphene materials for electromagnetic interference shielding: a review of recent progress	Critical Reviews in Solid State and Materials Sciences	10.1080/10408436.2021.1965954
52	Borah J., Baruah S., Sheikh T.A., Roy S.	Miniaturization and Optimization of FR4 Based CPW-fed Antenna for Multiband Applications	Radioelectronics and Communications Systems	10.3103/S0735272721120049
53	Shaikh B., Gowd G.H., Prasad B.D., Ali P.S.	Parametric optimization by using friction stir processing	AIP Conference Proceedings	10.1063/5.0068218
54	Singh J., Dhasarathan C.	A QoS Metric Approach for Web Service Pertinence for the Cloud	Recent Advances in Computer Science and Communications	10.2174/2666255813666200102123532
55	Mahboob A., Davvaz B., Khan N.M.	Ordered $\Gamma$ -semigroups and fuzzy $\Gamma$ -ideals	Iranian Journal of Mathematical Sciences and Informatics	10.52547/ijmsi.16.2.129

S.No.	Authors	Title	Source Title	DOI
56	Denslin Brabin D.R., Bojjagani S., Braja D.R.D.	A Visible Watermarking Scheme for JPEG Images Based on Modification of Frequency Coefficients	Automatic Control and Computer Sciences	10.3103/S0146411621050023
57	Nallabala N.K.R., Kummara V.K., Chinnappa Y., George P.P., Manjunath V., Sanniboina J., Reddy S.M., Gangasani N.R.	A Study on Annealing Process Influenced Electrical Properties of Ni/CeO <sub>2</sub> /p-Si/Al Schottky Barrier Diodes	Macromolecular Symposia	10.1002/masy.202000228
58	Geetha Devi K.V., Thakur S.S., Singh S.K.	Assessing the performances of vendor firms by optimization technique industry 4.0 GSC architectures	International Journal of Social Ecology and Sustainable Development	10.4018/IJSESD.2021070101
59	Muhiuddina G., Alenzea E.N., Mahboobb A., Al-Masarwahc A.	Some New Concepts on Int-Soft Ideals in Ordered Semigroups	New Mathematics and Natural Computation	10.1142/S1793005721500149
60	Prasanna S., Rangarajan V., Khan M., Ahmed K.A.A.	Examining the factors influencing consumers' choice for electric vehicles in India	International Journal of Electric and Hybrid Vehicles	10.1504/IJEHV.2021.123482
61	Saha S., Das A.N., Raut S.	ANALYSIS OF THERMAL ENHANCEMENT IN A BAFFLED RECTANGULAR CHANNEL WITH DIFFERENT FORMS OF OUTLET	Journal of the Serbian Society for Computational Mechanics	10.24874/jsscm.2021.15.01.02
62	Zhang Y., Kou X., Song Z., Fan Y., Usman M., Jagota V.	Research on logistics management layout optimization and real-time application based on nonlinear programming	Nonlinear Engineering	10.1515/nleng-2021-0043
63	Guo E., Jagota V., Makhatha M.E., Kumar P.	Study on fault identification of mechanical dynamic nonlinear transmission system	Nonlinear Engineering	10.1515/nleng-2021-0042
64	Dhasarathan C., Shrestha H.	An NLP Based Sentimental Analysis and Prediction: A Dynamic Approach	Communications in Computer and Information Science	10.1007/978-981-16-8896-6_28
65	Muhiuddin G., Mahboob A., Khan N.M., Al-Kadi D.	New types of fuzzy (m, n)-ideals in ordered semigroups	Journal of Intelligent and Fuzzy Systems	10.3233/JIFS-210378
66	Saha S., Kumar V., Das A.N.	An elastic half space with a moving punch	WSEAS Transactions on Applied and Theoretical Mechanics	10.37394/232011.2021.16.27
67	Kumar M.N., Jagota V., Shabaz M.	Retrospection of the Optimization Model for Designing the Power Train of a Formula Student Race Car	Scientific Programming	10.1155/2021/9465702
68	Patra J.P., Pradhan B.B., Singh P.	A low complexity optimal lmmse channel estimator for ofdm system	Journal of Communications Software and Systems	10.24138/jcomss-2021-0042

S.No.	Authors	Title	Source Title	DOI
69	Tripathi D., Ramachandra Reddy B., Padmanabha Reddy Y.C.A., Shukla A.K., Kumar R.K., Sharma N.K.	BAT algorithm based feature selection: Application in credit scoring	Journal of Intelligent and Fuzzy Systems	10.3233/JIFS-189876
70	Tiwari S.K., Sahoo S., Wang N.	Preface	Carbon Nanostructures	10.1109/WCSN.2007.4475729
71	De S., Sahoo S., Das A.K., Nayak G.C.	Recent Progress in Electrospinning Technologies for Graphene-Based Materials	Carbon Nanostructures	10.1007/978-3-030-75456-3_1
72	Shanmukhasundaram V.R., Rao Y.V.D., Regalla S.P., Varadaraju D., Pennestri E.	Structural Synthesis and Classification of Epicyclic Gear Trains: An Acyclic Graph-Based Approach	Lecture Notes in Mechanical Engineering	10.1007/978-981-16-1769-0_62
73	Kumar H., Singh M.M., Sivaiah P.	Characterisation of aluminium and alumina thin films coatings using different deposition methods for enhancement of optical properties	International Journal of Materials Engineering Innovation	10.1504/IJMATEI.2021.116943
74	Rajakumar R., Dinesh K., Vengattaraman T.	An energy-efficient cluster formation in wireless sensor network using grey wolf optimisation	International Journal of Applied Management Science	10.1504/IJAMS.2021.116496
75	Bhatia V., Kaur S., Sharma K., Rattan P., Jagota V., Kemal M.A.	Design and Simulation of Capacitive MEMS Switch for Ka Band Application	Wireless Communications and Mobile Computing	10.1155/2021/2021513
76	Muhiuddin G., Al-Kadi D., Mahboob A., Albjedi A.	Interval-Valued m-Polar Fuzzy Positive Implicative Ideals in BCK-Algebras	Mathematical Problems in Engineering	10.1155/2021/1042091
77	Nagesha K.V., Kumar H., Munisingh M.S.	Influence Of Rock Properties On Emission Rate Of Particulates Matter (pm) During Drilling Operation In Surface Mines	Iranian Journal of Earth Sciences	
78	Ganga Devi S.V.S.	Cluster and outlier analysis for ground water quality data in the regions of kadapa district in andhra pradesh	Recent Patents on Engineering	10.2174/187221211366619021144935
79	Patr, JP; Pradha, BB; Sing, P	Direct evidence to control the magnetization in Fe <sub>3</sub> O <sub>4</sub> thin films by N-2 ion implantation: a soft X-ray magnetic circular dichroism study	JOURNAL OF COMMUNICATIONS SOFTWARE AND SYSTEMS	10.24138/jcomss-2021-0042
80	Kumar, MN; Jagota, V; Shabaz, M	Analytical analysis of combined effect of interior guide tube and draft tube on cross flow turbine performance	SCIENTIFIC PROGRAMMING	10.1155/2021/9465702
81	Mahboob, A; Muhiuddin, G	Design and cost analysis of fish friendly kaplan tubine: A case study	NEW MATHEMATICS AND NATURAL COMPUTATION	10.1142/S1793005721500368

S.No.	Authors	Title	Source Title	DOI
82	Brabin, DRD; Bojjagani, S; Braja, DRD	Polyindole Booster for Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Based Symmetric and Asymmetric Supercapacitor Devices	AUTOMATIC CONTROL AND COMPUTER SCIENCES	10.3103/S0146411621050023
83	Nallabala, NKR; Kummara, VK; Chinnappa, Y; George, PP; Manjunath, V; Sanniboina, J; Reddy, SM; Gangasani, NR	Statistical analysis of current-voltage characteristics in Au/Ta <sub>2</sub> O <sub>5</sub> /n-GaN Schottky barrier heterojunction using different methods	MACROMOLECULAR SYMPOSIA	10.1002/masy.202000228
84	Bhatia, V; Kaur, S; Sharma, K; Rattan, P; Jagota, V; Kemal, MA	Experimental Investigation and Optimization of Process Parameters in Ti - (6242) Alpha-Beta Alloy Using Electrical Discharge Machining	WIRELESS COMMUNICATIONS & MOBILE COMPUTING	10.1155/2021/2021513
85	Muhiuddin, G; Alenze, EN; Mahboob, A; Al-Masarwah, A	Sand-scrap tyre chip mixtures for improving the dynamic behaviour of retaining walls	NEW MATHEMATICS AND NATURAL COMPUTATION	10.1142/S1793005721500149
86	Shankar R., Ramana T.V., Singh P., Gupta S., Mehraj H.	Examination of the Non-Orthogonal Multiple Access System Using Long Short Memory Based Deep Neural Network	Journal of Mobile Multimedia	10.13052/jmm1550-4646.18214
87	Gopan G., Hauchhum L., Pattanayak S., Kalita P., Krishnan R.	Prediction of species concentration in syngas produced through gasification of different bamboo biomasses: a numerical approach	International Journal of Energy and Environmental Engineering	10.1007/s40095-022-00492-7
88	Borah J., Baruah S., Das S., Biswas D.	Analysis of Massive MIMO and Small Cells based 5G Cellular Networks: Simulative Approach	Radioelectronics and Communications Systems	10.3103/S0735272722060024
89	Saha S., Biswas P., Das A.N.	Numerical Study of Turbulent Airflow Structure and Transfer of Heat Having Trapezoidal Baffles Attached on the Walls and Centerline of the Rectangular Channel	International Journal of Applied and Computational Mathematics	10.1007/s40819-022-01252-1
90	Saravana R., Hemadri Reddy R., Narasimha Murthy K.V., Makinde O.D.	Thermal radiation and diffusion effects in MHD Williamson and Casson fluid flows past a slendering stretching surface	Heat Transfer	10.1002/htj.22443
91	Knowles S.P., Pabi D.J.A., Kumar S.M., Babu G.R.	A study on the impact of emotional intelligence factors for the enhancement of workplace happiness with reference to the teaching faculty in Bangalore	AIP Conference Proceedings	10.1063/5.0074909
92	Adigopula V.K.	A Simplified Empirical Approach for Prediction of Pavement Layer Moduli Values Using Lightweight Deflectometer Data	International Journal of Pavement Research and Technology	10.1007/s42947-021-00050-0

S.No.	Authors	Title	Source Title	DOI
93	Abughazalah N., Muhiuddin G., Elnair M.E.A., Mahboob A.	Bipolar Fuzzy Set Theory Applied to the Certain Ideals in BCI-Algebras	Symmetry	10.3390/sym14040815
94	Adigopula V.K.	Possibilities and proposals of intelligent transportation system in the Indian context: a synthesis of the literature	Innovative Infrastructure Solutions	10.1007/s41062-021-00622-w
95	Anguraj D.K., Bashar A., Nidhya R., Shimna P.K., Ravi R.V.	Minimizing path loss and improving security in wireless body area networks	International Journal of Intelligent Unmanned Systems	10.1108/IJIUS-09-2020-0047
96	Krishna S., Ali M.M., Thakur S.S., Vigneswara Rao K.T.	Green Supply Chain Performance Analysis Under Industry 4.0 Using Fuzzy Intellectual Approach	International Journal of Social Ecology and Sustainable Development	10.4018/IJSESD.289639
97	Vamsi B., Al Bataineh A., Doppala B.P.	Prediction of Micro Vascular and Macro Vascular Complications in Type-2 Diabetic Patients using Machine Learning Techniques	International Journal of Advanced Computer Science and Applications	10.14569/IJACSA.2022.0131103
98	Saha S., Raut S., Das A.N.	INFLUENCE OF DIFFERENT TYPES OF BAFFLE ARRANGEMENT AND SPACING ON HYDROTHERMAL FLOW PHENOMENA OVER A RECTANGULAR CHANNEL	International Journal of Fluid Mechanics Research	10.1615/InterJFluidMechRes.2022040394
99	Jeyapragash R., Sathiyamurthy S., Srinivasan V., Prithivirajan R., Swaminathan G.	PROPERTIES AND CHARACTERISTICS OF ALKALI TREATED CALOTROPIS GIGANTEA FIBER-REINFORCED PARTICLE-FILLED EPOXY COMPOSITES	Composites Theory and Practice	
100	Wang Y., Jagota V., Makhatha M.E., Kumar P.	Vibration signal acquisition and computer simulation detection of mechanical equipment failure	Nonlinear Engineering	10.1515/nleng-2022-0026
101	Kavitha M., Sankara Babu B., Sumathy B., Jackulin T., Ramkumar N., Manimaran A., Walia R., Neelakandan S.	Convolutional Neural Networks Based Video Reconstruction and Computation in Digital Twins	Intelligent Automation and Soft Computing	10.32604/iasc.2022.026385
102	Hanief Kohli A., Hanief M., Jagota V.	A retrospection of the effect of nitriding processes on the AISI H13 tool steel	Advances in Materials and Processing Technologies	10.1080/2374068X.2022.2093012
103	Satyanarayana Murthy T., Mohan Krishna Varma N., Roy S., Nazeer S.	Effective Classification of Tweets Using Machine Learning	Lecture Notes in Networks and Systems	10.1007/978-981-19-0707-4_40

S.No.	Authors	Title	Source Title	DOI
104	Arulkumar K., Vaigundamoorthy M., Prabaharan N., Subramaniam U.	Impact of the flipped classroom approach in engineering education: A course analysis	Journal of Engineering Education Transformations	
105	Jairath K., Singh N., Shabaz M., Jagota V., Singh B.K.	Performance Analysis of Metamaterial-Inspired Structure Loaded Antennas for Narrow Range Wireless Communication	Scientific Programming	10.1155/2022/7940319
106	Sunitha P., Ahmad N., Barbhuiya R.K., Gunjan V.K., Ansari M.D.	Impact of Covid-19 on Education	Lecture Notes in Electrical Engineering	10.1007/978-981-16-7985-8_124
107	Pai R.Y., Gopal S., Padma S., Srivastava S.	Analyzing How E-Learning and Virtual Reality could be Integrated to Enhance Studies	ECS Transactions	10.1149/10701.13163ecst
108	Shankar R., Raghava Raman V.V., Rane K.P., Sarojini B.K., Neware R.	An Investigation of the MIMO Space Time Block Code Based Selective Decode and Forward Relaying Network over $\eta$ - $\mu$ Fading Channel Conditions	Journal of Telecommunications and Information Technology	10.26636/jtit.2022.150421
109	Patra J.P., Pradhan B.B., Singh P.	A DFT-based Low Complexity LMMSE Channel Estimation Technique for OFDM Systems	Journal of Telecommunications and Information Technology	10.26636/jtit.2022.148720
110	Bojjagani S., Denslin Brabin D.R., Saravanan K.	Early DDoS Detection and Prevention with Traced- Back Blocking in SDN Environment	Intelligent Automation and Soft Computing	10.32604/iasc.2022.023771
111	Zhang S., Srividya K., Kakaravada I., Karras D.A., Jagota V., Hasan I., Rahmani A.W.	A Global Optimization Algorithm for Intelligent Electromechanical Control System with Improved Filling Function	Scientific Programming	10.1155/2022/3361027
112	Jiang D.Y., Zhang H., Kumar H., Naveed Q.N., Takhi C., Jagota V., Jain R.	Automatic Control Model of Power Information System Access Based on Artificial Intelligence Technology	Mathematical Problems in Engineering	10.1155/2022/5677634
113	Majumder S., Deb Barma M.K., Saha A., B. Roy A.	Silent Listening to Detect False Data Injection Attack and Recognize the Attacker in Smart Car Platooning	Studies in Computational Intelligence	10.1007/978-3-030-97113-7_9
114	Alex S., Sathesh N., Vanitha K., Shenbagavalli P.	Data Analytics and Visualisation Using Tableau on Prevalence of Alcoholic Drinks and Tobacco Products Among Young People in India	Lecture Notes in Networks and Systems	10.1007/978-981-16-8987-1_26
115	Adigopula V.K., Bogireddy C., Guzzarlapudi S.D.	Comparison of Overlay Design in Between Lightweight Deflectometer and Benkelman Beam Deflection Test Results: A Case Study in India	Lecture Notes in Civil Engineering	10.1007/978-981-16-9963-4_14

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
116	Madhavi S., Prasad V.R., Gaffar S.A.	Polymeric Dissipative Convection Flow from an Inclined Plane with Chemical Reaction: Numerical Study	Journal of Applied and Computational Mechanics	10.22055/jacm.2019.30582.1747
117	Lu W., Vivekananda G.N., Shanthini A.	Supervision system of english online teaching based on machine learning	Progress in Artificial Intelligence	10.1007/s13748-021-00274-y
118	Swaminathan J.N., Rameshkumar R., Vidyasagar I., Divya I., Navaneethakrishnan R.	Analysis of ECG Signal Processing for Smart Medical Technologies	Lecture Notes in Networks and Systems	10.1007/978-981-16-5655-2_49
119	Katiyar J.K., Rao T.V.V.L.N.	Impact of Tribology on society	Tribology - Materials, Surfaces and Interfaces	10.1080/17515831.2022.2022972
120	Veningston K., Rao P.V.V., Selvan C., RONALDA M.	Investigation on Customer Churn Prediction Using Machine Learning Techniques	Lecture Notes in Networks and Systems	10.1007/978-981-16-5348-3_8
121	Saha S., Kumar A., Das A.N.	Generation of entropy of turbulent EG-water-Al <sub>2</sub> O <sub>3</sub> hybrid nanofluid flow through a channel of rectangular cross-section	International Journal of Ambient Energy	10.1080/01430750.2021.1994465
122	Dharek M.S., Sreekeshava K.S., Vengala J., Pramod K., Sunagar P., Shivaprakash M.V.	Experimental Investigations on Utilization of Bagasse Ash in Adobe Bricks	Lecture Notes in Civil Engineering	10.1007/978-981-16-2826-9_31
123	Shanmukhasundaram V.R., Rao Y.V.D., Regalla S.P.	Topological Analysis of Epicyclic Gear Trains—Symmetry and Redundancy	Lecture Notes in Mechanical Engineering	10.1007/978-981-16-0550-5_118
124	Mahboob A., Khan N.M.	(m, n)-HYPERFILTERS IN ORDERED SEMIHYPERGROUPS	Kragujevac Journal of Mathematics	10.46793/KgJMat2202.175Y
125	Rathinam S., Bhargava A.	Performance study on nanoparticle/biodiesel blends in Ci engine	International Journal of Ambient Energy	10.1080/01430750.2019.1694986

## List of Publications - Scopus including Conference publications for the AY:2020-21

S.No.	Authors	Title	Source Title	DOI
1	Khan A.N., Nazarian H., Golilarz N.A., Addeh A., Li J.P., Khan G.A.	Brain Tumor Classification Using Efficient Deep Features of MRI Scans and Support Vector Machine	2020 17th International Computer Conference on Wavelet Active Media Technology and Information Processing, ICCWAMTIP 2020	10.1109/ICCWAMTIP51612.2020.9317509
2	Banerjee A., Maity S.P.	Jamming on Throughput Improvement in Cognitive Radio Networks	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	10.1109/ANTS50601.2020.9342815
3	Shanmugakumar M., Srinivasavarma V.S.M., Noor Mahammad S.	Energy efficient hardware architecture for matrix multiplication	4th IEEE Conference on Information and Communication Technology, CICT 2020	10.1109/CICT51604.2020.9312050
4	Murugesan S., Dhayalakumar M., Noor Mahammad S.	A novel high performance universal measurement logic element	4th IEEE Conference on Information and Communication Technology, CICT 2020	10.1109/CICT51604.2020.9312059
5	Arora S., Khanna R., Kaur S., Satsangi S.	Substation Energy Analysis by Combined Approach of CVR in a Distribution Network with Smart PV System	Proceedings of 2020 IEEE 1st International Conference on Smart Technologies for Power, Energy and Control, STPEC 2020	10.1109/STPEC49749.2020.9297766
6	Rajkumar S., Sathesh K., Goyal N.K.	Neural network-based design and evaluation of performance metrics using adaptive line enhancer with adaptive algorithms for auscultation analysis	Neural Computing and Applications	10.1007/s00521-020-04864-0
7	Padmavathi M., Basha S.M., Krishnaiah V.V.J.R.	Load Balancing Algorithm to Reduce Make Span in Cloud Computing by Enhanced Firefly Approach	Proceedings of the International Conference on Electronics and Sustainable Communication Systems, ICESC 2020	10.1109/ICESC48915.2020.9155662
8	Kumar S., Yadav J.S., Kurmi Y., Baronia A.	An efficient image denoising approach to remove random valued impulse noise by truncating data inside sliding window	2nd International Conference on Data, Engineering and Applications, IDEA 2020	10.1109/IDEA49133.2020.9170689
9	Sridevi S., Murugesan S., Sakthivel V., Kavitha D.	Computer-aided decision support system for symmetry-based prenatal congenital heart defects	Advanced Machine Vision Paradigms for Medical Image Analysis	10.1016/B978-0-12-819295-5.00002-0



S.No.	Authors	Title	Source Title	DOI
10	Chen, ZS; Zhang, JX; Jiang, XY; Hu, ZJ; Han, X; Xu, MY; Savitha, V; Vivekananda, GN	Dry Sliding Tribological Studies of ZA-27/Al2O3 Metal Matrix Nanocomposites by using Response Surface Methodology	INTELIGENCIA ARTIFICIAL-IBEROAMERICAL JOURNAL OF ARTIFICIAL INTELLIGENCE	10.4114/intartf.vol23iss66pp124-137
11	Deshamukhya T., Bhanja D., Nath S.	A metaheuristic analysis of heat transfer rates through porous fins of tapered and step profiles: a comparative study	Neural Computing and Applications	10.1007/s00521-021-05911-0
12	Dhurandher B.K., Kumar R., Dhiman A.K., Gupta A.	An Impact of Sudden Ventilation in a Compartment Involving Crib Fire	Iranian Journal of Science and Technology - Transactions of Mechanical Engineering	10.1007/s40997-019-00327-7
13	Mehar K., Mishra P.K., Panda S.K.	Thermal buckling strength of smart nanotube-reinforced doubly curved hybrid composite panels	Computers and Mathematics with Applications	10.1016/j.camwa.2021.03.010
14	Ramachandran S., Vajravelu K., Prasad K.V., Sreenadh S.	Peristaltic-ciliary flow of a casson fluid through an inclined tube	Communication in Biomathematical Sciences	10.5614/cbms.2021.4.1.3
15	Vivekananda G.N., Lavanya B.M., Reddy P.D.K.	DLM technique for QoS improvement in MANETS	Wireless Networks	10.1007/s11276-021-02622-1
16	Anamalamudi K., Padmanabha Reddy Y.C.A.	Context-based News Articles Retrieval using CLSM	Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021	10.1109/ICCMC51019.2021.9418018
17	Kumar V.	Evaluation of computationally intelligent techniques for breast cancer diagnosis	Neural Computing and Applications	10.1007/s00521-020-05204-y
18	Ashraf Z., Hasan M.G., Khan M.S.	Solving interval type-2 fuzzy reliability-redundancy allocation systems with efficient PSO algorithm	Advancements in Fuzzy Reliability Theory	10.4018/978-1-7998-7564-2.ch007
19	Akbar M.A., Shameem M., Khan A.A., Nadeem M., Alsanad A., Gumaei A.	A fuzzy analytical hierarchy process to prioritize the success factors of requirement change management in global software development	Journal of Software: Evolution and Process	10.1002/smr.2292
20	Kuppusamy P., Hung C.-L.	Enriching the Multi-Object Detection using Convolutional Neural Network in Macro-Image	2021 International Conference on Computer Communication and Informatics, ICCCI 2021	10.1109/ICCCI50826.2021.9402565
21	Dhasarathan C., Shanmugam M., Khapre S.P., Shukla A.K., Shankar A.	Blockchain-Enabled Decentralized Reliable Smart Industrial Internet of Things (BCIIoT)	Innovations in the Industrial Internet of Things (IIoT) and Smart Factory	10.4018/978-1-7998-3375-8.ch013
22	Arora S., Satsangi S., Kaur S., Khanna R.	Analysis of Substation Energy Savings by Applying CVR in a Radial Unbalanced Distribution Feeder with Photovoltaic System	2021 International Conference on Nascent Technologies in Engineering, ICNET 2021 - Proceedings	10.1109/ICNTE51185.2021.9487685
23	Asha Rani M.A., Chakkarapani M., Nagamani C., Saravana Ilango G., Jaya Bharata Reddy M.	Performance Evaluation of R-PLL for Robust Sensorless Operation of DFIG under Harmonics, DC Offset and Phase Jump in Grid Voltage	ICPEE 2021 - 2021 1st International Conference on Power Electronics and Energy	10.1109/ICPEE50452.2021.9358630

S.No.	Authors	Title	Source Title	DOI
24	Barbhuiya R.K., Ahmad N.	IoT applications in translational bioinformatics	Translational Bioinformatics in Healthcare and Medicine	10.1016/B978-0-323-89824-9.00006-9
25	Arora S., Satsangi S., Kaur S., Khanna R.	Evaluation of substation demand by combined operation of CVR with PV inverter in EPRI test circuit	Proceedings of the 2021 1st International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies, ICAECT 2021	10.1109/ICAECT49130.2021.9392444
26	Malladi R., Beuria M.K., Shankar R., Singh S.S.	Investigation of the fifth generation non-orthogonal multiple access technique for defense applications using deep learning	Journal of Defense Modeling and Simulation	10.1177/15485129211022857
27	Han M., Zhang F., Ning N., Zhou J., Shanthini A., Vivekananda G.N.	FPLP3D: Security robot for face recognition in the workplace environment using face pose detection assisted controlled FACE++ tool position: A three-dimensional robot	Work	10.3233/WOR-203422
28	Vaigundamoorthi M., Ramesh R., Prabhu V.V., Kumar K.A.	MPPT oscillations minimization in PV system by controlling non-linear dynamics in SEPIC DC-DC converter	International Journal of Electrical and Computer Engineering	10.11591/IJECE.V10I6.PP6268-6275
29	Chandramohan D., Dumka A., Jayakumar L.	2M2C-R2ED: Multi-Metric Cooperative Clustering Based Routing for Energy Efficient Data Dissemination in Green-VANETs	Technology and Economics of Smart Grids and Sustainable Energy	10.1007/s40866-020-00086-4
30	Shrestha H., Dhasarathan C., Munisamy S., Jayavel A.	Natural Language Processing Based Sentimental Analysis of Hindi (SAH) Script an Optimization Approach	International Journal of Speech Technology	10.1007/s10772-020-09730-x
31	Manjunath V., Sowmya D.V., Achari K.M.M., Sandhya P., Sravya G., Ananda P., Krishnaiah M.	Structural, morphological and 1/f noise properties of ITO/TiO <sub>2</sub> thin films by e-beam evaporation system for optoelectronic device applications	AIP Conference Proceedings	10.1063/5.0018120
32	Lakshun Naidu K., Mohiddon M.A., Shankernath V., Ghanashyam Krishna M.	Growth and optical properties of silicon based nanocomposite thin films	AIP Conference Proceedings	10.1063/5.0019789
33	Panigrahy P.S., Santra D., Chattopadhyay P.	Decent fault classification of VFD fed induction motor using random forest algorithm	Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM	10.1017/S0890060420000311
34	Manjunath V., Yuvaraj C., Nanda Kumar Reddy N., Uthanna S., George P.P., Nethaji Reddy G., Manjunatha G., Ravikanth D., Surekha K.	Evaluation of electrical parameters of Ni/n-type si schottky barrier diodes using polyvinyl alcohol (PVA) as an interfacial layer	AIP Conference Proceedings	10.1063/5.0019609
35	Saravana R., Sreenadh S., Kumar P.R., Babu V.R.	Peristaltic pumping of ellis fluid through a flexible tube with complete slip effects	Journal of Naval Architecture and Marine Engineering	10.3329/jname.v17i2.49559

S.No.	Authors	Title	Source Title	DOI
36	Agarwal L., Singh R., Varshney G., SambasivaRao K., Tripathi S.	Design and analysis of Yb doped ZnO (YZO) and P-Si bilayer nano-stacked reflector for optical filter applications	Superlattices and Microstructures	10.1016/j.spmi.2020.106670
37	Shukla A.K., Tripathi D., Reddy B.R., Chandramohan D.	A study on metaheuristics approaches for gene selection in microarray data: algorithms, applications and open challenges	Evolutionary Intelligence	10.1007/s12065-019-00306-6
38	Shankar R., Mishra R.K.	PEP and OP examination of relaying network over time-selective fading channel	SN Applied Sciences	10.1007/s42452-020-3077-5
39	Karpagaraj A., Baskaran S., Arunnellaiappan T., Kumar N.R.	A review on the suitability of wire arc additive manufacturing (WAAM) for stainless steel 316	AIP Conference Proceedings	10.1063/5.0004148
40	Aridoss M., Dhasarathan C., Dumka A., Loganathan J.	DUICM deep underwater image classification model using convolutional neural networks	International Journal of Grid and High Performance Computing	10.4018/IJGHPC.2020070106
41	Rajakumar R., Dinesh K., Dumka A., Jayakumar L.	RFA reinforced firefly algorithm to identify optimal feature subsets for network IDS	International Journal of Grid and High Performance Computing	10.4018/IJGHPC.2020070105
42	Kumar R., Abbas A., Dwivedi G., Singal S.K.	Design and cost analysis of fish friendly kaplan turbine: A case study	Materials Today: Proceedings	10.1016/j.matpr.2020.08.805
43	Abbas A., Alam M., Kumar R.	Analytical analysis of combined effect of interior guide tube and draft tube on cross flow turbine performance	Materials Today: Proceedings	10.1016/j.matpr.2020.08.796
44	Ravuri M., Reddy Y.S.K., Vardhan D.H.	Parametric optimization of face turning parameters for surface roughness on EN 31 material using RSM and Taguchi method	Materials Today: Proceedings	10.1016/j.matpr.2020.05.816
45	Chen Z., Zhang J., Jiang X., Hu Z., Han X., Xu M., Savitha V., Vivekananda G.N.	Education 4.0 using artificial intelligence for students performance analysis	Inteligencia Artificial	10.4114/intartif.vol23iss66pp124-137
46	Muhiuddin G., Al-Kadi D., Mahboob A.	Ideal theory of bck/bci-algebras based on hybrid structures	Journal of Mathematics and Computer Science	10.22436/jmcs.023.02.06
47	Tharehallimata G., Mokenapalli V.	Transverse dynamic analysis of semi-active quarter car model controlled with an optimal conventional controller	International Journal of Vehicle Performance	10.1504/IJVP.2020.109194
48	Pavan Kumar A.V., Sai Varun Y.	MPPT-Based Inverter Control of Grid-Connected PV-Wind Hybrid Power System	Lecture Notes in Electrical Engineering	10.1007/978-981-15-5262-5_4
49	Kavya Deepthi B., Kolluru V.R., Varghese G.T., Narne R., Srimannarayana N.	IoT based smart environment using node-red and MQTT	Journal of Advanced Research in Dynamical and Control Systems	10.5373/JARDCS/V12I5/20201684
50	Agarwal, L; Singh, R; Varshney, G; SambasivaRao, K; Tripathi, S	Super-wideband multi-input-multi-output dielectric resonator antenna	SUPERLATTICES AND MICROSTRUCTURES	10.1016/j.spmi.2020.106670
51	Mahboob A., Muhiuddin G.	A new type of fuzzy prime subset in ordered semigroups	New Mathematics and Natural Computation	10.1142/S1793005721500368
52	Mahboob A., Khan N.M.	Pure $\Gamma$ -ideals in $\Gamma$ -semigroups	Afrika Matematika	10.1007/s13370-021-00893-7

S.No.	Authors	Title	Source Title	DOI
53	Anguraj D.K., Thirugnanasambandam K., Raghav R.S., Sudha S.V., Saravanan D.	Enriched cluster head selection using augmented bifold cuckoo search algorithm for edge-based internet of medical things	International Journal of Communication Systems	10.1002/dac.4817
54	Ramesh Reddy P., Abdul Gaffar S., Khan B.M.H., Venkatadri K., Anwar Beg O.	Mixed convection flows of tangent hyperbolic fluid past an isothermal wedge with entropy: A mathematical study	Heat Transfer	10.1002/htj.22011
55	Jain S., Hote Y.V., Dehuri P., Mittal D., Siddhartha V.	Experimental validation of fractional order internal model controller design on buck and boost converter	Measurement and Control (United Kingdom)	10.1177/0020294020922264
56	Kumar H., Mishra M.K., Mishra S., Muralidhar Singh M., Srivastava D.K.	Determination of methane sorption capacity using microstructural analysis in coal of Jharia Coalfield, India	Arabian Journal of Geosciences	10.1007/s12517-021-07051-0
57	Pavani V.L., Pradeep Kumar D.	A secure information discovery using mobile agents in wireless industry 4.0 networks	International Journal of Social Ecology and Sustainable Development	10.4018/IJSESD.2021040104
58	Perumandla S., Kuriseti P.	Commodity transaction tax (ctt): Nature of correlation dynamics and volatility linkages between indian commodity and equity markets	International Journal of Asian Business and Information Management	10.4018/ijabim.20210401.0a2
59	Sarwesh P., Chandrasekaran K., Thamizharasan S.	Network blueprint for maximizing the lifetime of smart devices in low power iot networks	International Journal of Grid and High Performance Computing	10.4018/IJGHP.2021040102
60	Madav B.T., Jilani S.A.K., Aruna Mastani S.	A Selective Block Processing of Frames for Video Frame Interpolation	ARNP Journal of Engineering and Applied Sciences	
61	Chandramohan D., Dumka A., Dhilipkumar V., Loganathan J.	Data dissemination for green-VANETs communication: an opportunistic optimization approach	International Journal of Pervasive Computing and Communications	10.1108/IJPCC-04-2020-0030
62	Thirugnanasambandam K., R.S R., Loganathan J., Dumka A., Dhilipkumar V.	Optimal path planning for intelligent automated wheelchair using DDSRPSO	International Journal of Pervasive Computing and Communications	10.1108/IJPCC-05-2020-0033
63	Panigrahy P.S., Chattopadhyay P.	Tri-axial vibration based collective feature analysis for decent fault classification of VFD fed induction motor	Measurement: Journal of the International Measurement Confederation	10.1016/j.measurement.2020.108 460
64	Surendiran B., Sreekanth P., Keerthi E.S.H., Praneetha M., Swetha D., Arulmurugaselvi N.	Feature subset selection for cancer detection using various rank-based algorithms	International Journal of Medical Engineering and Informatics	10.1504/IJMEI.2021.115969
65	Singh C., Chauhan D., Deshmukh S.A., Vishnu S.S., Walia R.	Medi-Block record: Secure data sharing using block chain technology	Informatics in Medicine Unlocked	10.1016/j.imu.2021.100624
66	Muhiuddin G., Al-Kadi D., Mahboob A.	More General Form of Interval-Valued Fuzzy Ideals of BCK/BCI-Algebras	Security and Communication Networks	10.1155/2021/9930467

S.No.	Authors	Title	Source Title	DOI
67	Jairath K., Singh N., Jagota V., Shabaz M.	Compact Ultrawide Band Metamaterial-Inspired Split Ring Resonator Structure Loaded Band Notched Antenna	Mathematical Problems in Engineering	10.1155/2021/5174455
68	Dhass A.D., Raj Anand S., Krishna R.	Implementation of Blockchain-Based Security and Privacy in Energy Management	Green Energy and Technology	10.1007/978-3-030-64565-6_18
69	Krishna R., Sreenivasan M., Lyutyk M., Barosh M.	Characterization of Spheroidized Alumina Powders for Ceramic 3D Printing Application	Lecture Notes in Mechanical Engineering	10.1007/978-3-030-71956-2_20
70	Madheswaran D.K., Thangamuthu M., Gopi S., Krishna R., Mohan S., Jayakumar A., Chinnampalli Y., Hussain S.T.N.	A Comparative Simulation Analysis of Conventional and Composite Leaf Spring	Lecture Notes in Mechanical Engineering	10.1007/978-3-030-71956-2_22
71	Muralidhar Singh M., Kumar H., Sivaiah P.	Alumina thin film coatings at optimized conditions using RF magnetron sputtering process	International Journal of Thin Film Science and Technology	10.18576/ijtfst/100103
72	Dinesh K., Rajakumar R., Subramanian R.	Self-organisation migration technique for enhancing the permutation coded genetic algorithm	International Journal of Applied Management Science	10.1504/ijams.2021.113372
73	Adigopula V.K., Bogireddy C., Kumar R.	A Study on the Application of Lightweight Deflectometer During the Construction of Low Volume Road in India	Lecture Notes in Civil Engineering	10.1007/978-981-33-4324-5_8
74	Sivaiah P., Revantha Kumar M., Bala Subramanyam S., Prasad K.L.V.	A comparative study on different textured and untextured tools performance in turning process	Materials and Manufacturing Processes	10.1080/10426914.2020.1866201
75	Thirugnanasambandam K., Anitha R., Enireddy V., Raghav R.S., Anguraj D.K., Arivunambi A.	Pattern mining technique derived ant colony optimization for document information retrieval	Journal of Ambient Intelligence and Humanized Computing	10.1007/s12652-020-02760-y
76	Somasekhar G., Krishna K.S., Reddy A.K., Kumar T.K., Somasekhar G.	Shopper segmentation using multivariate risk analysis for innovative marketing strategies	International Journal of Asian Business and Information Management	10.4018/IJABIM.20210101.0a4
77	Dutt A.K., Sindhuja K., Reddy S.V.N., Kumar P.	Application of Artificial Neural Network to Friction Stir Welding Process of AA7050 Aluminum Alloy	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-4739-3_34
78	Kumar P., Choudhury A.R., Basantia S., Dutt A.	Micromechanical Modeling of Ferrite–Austenite Interphase of 23Cr-6Ni-3Mo Duplex Stainless Steel with an Initial Equiaxed Austenite Morphology Using Finite Element Methods	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-4739-3_46
79	Pavankumar E., Baskaran S., Prithvirajan R., Vinoth Kumar S., Karpagaraj A.	Development of Multi-functioning Organic Waste Shredding Machine for Natural Compost	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-4739-3_90

S.No.	Authors	Title	Source Title	DOI
80	Sasidhar Reddy K., Sasi Prasad B., Sai Kiran Gowd E., Sekhar Babu A., Santhosh Kumar B., Manoj Kumar R., Baskaran S.	Investigation on Slurry Pot Erosion Wear Behaviour of AA5083 Aluminium Alloy	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-4739-3_47
81	Rishikeshan C.A., Rajesh Kumar Reddy C., Nandimandalam M.K.V.	An Improved Approach for Face Detection	Advances in Intelligent Systems and Computing	10.1007/978-981-15-7234-0_76
82	Sivakumar P., Akkera H.S., Ranjeth Kumar Reddy T., Srinivas Reddy G., Kambhala N., Nanda Kumar Reddy N.	Influence of Ga doping on structural, optical and electrical properties of transparent conducting SnO <sub>2</sub> thin films	Optik	10.1016/j.ijleo.2020.165859
83	Agarwal L., Singh R., Tripathi S.	Structural and Optical Characterization of EZO Thin Film for Application in Optical Waveguide	Lecture Notes in Electrical Engineering	10.1007/978-981-15-6840-4_9
84	Smilarubavathy G., Nidhya R., Abiramy N.V., Dinesh Kumar A.	Paillier homomorphic encryption with K-means clustering algorithm (phekc) for data mining security in cloud	Lecture Notes in Networks and Systems	10.1007/978-981-15-7345-3_80
85	Nidhya R., Shanthi S., Kumar M.	A novel encryption design for wireless body area network in remote healthcare system using enhanced rsa algorithm	Advances in Intelligent Systems and Computing	10.1007/978-981-15-5400-1_27
86	Sivaiah R., Ravikumar S., Hemadri Reddy R., Suresh Goud J., Saravana R.	Physical Significance of Rotation and Hall Current Effects on Hemodynamic Physiological Jeffery Fluid with Porous Medium Through a Tapered Channel	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-4308-1_45
87	Raghavendra H., Suryanarayana Raju P., Hema Chandra Reddy K.	Parametric Investigation of Beta Type Stirling Engine	Lecture Notes in Mechanical Engineering	10.1007/978-981-15-4308-1_32
88	Singhal A., Mohammad Sedighi H., Ebrahimi F., Kuznetsova I.	Comparative study of the flexoelectricity effect with a highly/weakly interface in distinct piezoelectric materials (PZT-2, PZT-4, PZT-5H, LiNbO <sub>3</sub> , BaTiO <sub>3</sub> )	Waves in Random and Complex Media	10.1080/17455030.2019.1699676
89	Singhal A., Sahu S.A., Chaudhary S.	Study of surface wave vibration in rotating human long bones of cylindrical shape under the magnetic field influence	Waves in Random and Complex Media	10.1080/17455030.2019.1686551
90	Reddy S.B., Krishna A.M.	Sand–scrap tyre chip mixtures for improving the dynamic behaviour of retaining walls	International Journal of Geotechnical Engineering	10.1080/19386362.2019.1652969
91	Devaraj A., Devarajan Y., Vinoth Kanna I.	Investigation on emission pattern of biodiesel and Nano-particles	International Journal of Ambient Energy	10.1080/01430750.2019.1586765
92	Devaraj A., Devarajan Y., Vinoth K.I.	Effect of di-ethyl-ether on biodiesel fuelled diesel engine	International Journal of Ambient Energy	10.1080/01430750.2018.1557546

<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
93	Chokkanathan, K; Shanmugaraja, P; Ramasamy, SS; Ouncharoen, R; Chakpitak, N	Examining the factors influencing consumers' choice for electric vehicles in India	INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY	10.22937/IJCSNS.2021.21.7.1
94	Devaraj, A; Devarajan, Y; Kanna, IV	Sensitivity Analysis on Dielectric Modulated Ge-Source DMDG TFET Based Label-Free Biosensor	INTERNATIONAL JOURNAL OF AMBIENT ENERGY	10.1080/01430750.2019.1586765

## List of Publications - Scopus including Conference publications for the AY:2019-20

S.No.	Authors	Title	Source Title	DOI
1	Rimjhim, Roy, P.K., Prakash Singh, J.	Encircling the Base Station for Source Location Privacy in Wireless Sensor Networks	Proceedings 2018 3rd International Conference on Computational Systems and Information Technology for Sustainable Solutions, CSITSS 2018	10.1109/CSITSS.2018.8768759
2	Padhy, V.P., Negi, Y.K., Balakrishnan, N.	Parallelization and Performance Evaluation of Method of Moment (MoM) Dense Matrix Direct Solution on Cray XC40 -Supercomputer (SAHASRAT)	2018 IEEE Indian Conference on Antennas and Propagation, InCAP 2018	10.1109/INCAP.2018.8770791
3	Padhy, V.P., Negi, Y.K., Balakrishnan, N.	Numerical Simulation of Wave Propagation and Scattering in an Inhomogeneous Medium	2018 IEEE Indian Conference on Antennas and Propagation, InCAP 2018	10.1109/INCAP.2018.8770744
4	Swain S., Subudhi B.	Iterated extended Kalman filter-based grid synchronisation control of a PV system	IET Energy Systems Integration	10.1049/iet-esi.2018.0010
5	Mohanty P.R.	Complex Network Theory for the Analysis of Power Grid Vulnerability	4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, ICEECCOT 2019	10.1109/ICEECCOT46775.2019.9114777
6	Padhi S.S., Krishna P.B., Ray P.K., Mohanty S.	A Low Voltage Ride Enhancement Technique for Wind Energy System	2019 National Power Electronics Conference, NPEC 2019	10.1109/NPEC47332.2019.9034884
7	Prajapati A.K., Prasad R.	Model reduction of multivariable systems by using new combined approach	2019 IEEE 16th India Council International Conference, INDICON 2019 - Symposium Proceedings	10.1109/INDICON47234.2019.9028986
8	Bhardwaj L., Mishra R.K., Shankar R.	Examination of Outage probability for Next generation Non Orthogonal Multiple Access Scheme in Uplink and Downlink Scenario	2019 IEEE 19th International Symposium on Signal Processing and Information Technology, ISSPIT 2019	10.1109/ISSPIT47144.2019.9001883
9	Sivaiah P.	Evaluation of hybrid textured tool performance under minimum quantity lubrication while turning of AISI 304 steel	Journal of the Brazilian Society of Mechanical Sciences and Engineering	10.1007/s40430-019-2069-0
10	Kumar A.	Design of self-quadruplexing antenna using substrate-integrated waveguide technique	Microwave and Optical Technology Letters	10.1002/mop.31952



S.No.	Authors	Title	Source Title	DOI
11	Mondal P., Parui S.K., <b>Padhy V.P.</b> , Mandal T., Sarkar A.	Conductor backed coplanar waveguide bandpass filter using vertically loaded coupled open-ended stubs	IEEE 5th Global Electromagnetic Compatibility Conference, GEMCCON 2019 - Proceedings	10.1109/GEMCCON48223.2019.9132818
12	Bablani A., Edla D.R., <b>Tripathi D.</b> , Dodia S., Chintala S.	A Synergistic Concealed Information Test with Novel Approach for EEG Channel Selection and SVM Parameter Optimization	IEEE Transactions on Information Forensics and Security	10.1109/TIFS.2019.2913798
13	Suresh S., <b>Gowd G.H.</b> , Kumar M.L.S.D.	Mechanical and wear behavior of Al 7075/Al <sub>2</sub> O <sub>3</sub> /SiC/mg metal matrix nanocomposite by liquid state process	Advanced Composites and Hybrid Materials	10.1007/s42114-019-00101-y
14	<b>Narendra Babu A.</b> , Agarwal P.	Response to Discussion on 'Nearest and Non-Nearest Three Vector Modulations of NPCI Using Two-Level Space Vector Diagram - A Novel Approach'	IEEE Transactions on Industry Applications	10.1109/TIA.2019.2922929
15	Sivaiah P.	Experimental investigation and modelling of MQL assisted turning process during machining of 15-5 PH stainless steel using response surface methodology	SN Applied Sciences	10.1007/s42452-019-0827-3
16	Sreehari G.S., Vijay M., Kushal B.R., Praveen G.	Wearable Exoskeleton Assisted Rehabilitation in Multiple Sclerosis by Using an Intelligent Control Method	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies, ICICICT 2019	10.1109/ICICICT46008.2019.8993355
17	Sreehari G.S., Vijay M., Sumanth D.S., Kumar G.P.	Wearable Exoskeleton Assisted Rehabilitation in Multiple Sclerosis by Control of Sliding Mode Technique	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies, ICICICT 2019	10.1109/ICICICT46008.2019.8993349
18	<b>Kusuma S.</b> , Divya Udayan J., Sachdeva A.	Driver Distraction Detection using Deep Learning and Computer Vision	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies, ICICICT 2019	10.1109/ICICICT46008.2019.8993260
19	Sreehari G.S., Vijay M., Pavan Kumar A.V.	Wearable exoskeleton assisted rehabilitation in multiple sclerosis by using conventional control methods	Proceedings of the 3rd International Conference on Computing Methodologies and Communication, ICCMC 2019	10.1109/ICCMC.2019.8819682

S.No.	Authors	Title	Source Title	DOI
20	<b>Dash D.</b> , Pandey C.K., Chaudhury S., Tripathy S.K.	Structure and Electronic Properties of TiO <sub>2</sub> Nanowires of Different Geometrical Shapes: An Abinitio Study	Proceedings of 3rd International Conference on 2019 Devices for Integrated Circuit, DevIC 2019	10.1109/DEVIC.2019.8783966
21	Kajagar V.V., Kumar R.K., Kumar G.C., Ashraf Ansari S.M.	Comparative analysis of CMOS AND gate and Domino Logic AND gate design by using Nano scaling technologies	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	10.1109/ICECCT.2019.8869430
22	Chandrakar P., Chauhan A.S., <b>Ali R.</b>	Cryptanalysis and Improvement of a Secure Mutual Authentication Scheme for Remote Users	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	10.1109/ICECCT.2019.8869401
23	Chandrakar P., Jain A., Balivada S., <b>Ali R.</b>	A Secure Authentication Protocol for Vehicular Ad-Hoc Networks	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	10.1109/ICECCT.2019.8869101
24	Rajaguru D., <b>Puviyarasi T.</b> , Vengattaraman T.	Malicious Data Stream Identification to Improve the Resource Elasticity of Handheld Edge Computing System	Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications	10.4018/978-1-5225-9866-4.ch076
25	Aridoss M.	Defensive Mechanism Against DDoS Attack to Preserve Resource Availability for IoT Applications	Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications	10.4018/978-1-5225-9866-4.ch065
26	Hadjichristov G.B., Marinov Y.G., Marinov T.E., <b>Koduru H.K.</b> , Scaramuzza N.	PEO/E8 POLYMER-LIQUID CRYSTAL FLEXIBLE COMPLEX BLEND ELECTROLYTE SYSTEM FOR NA IONS	Liquid and Single Crystals: Properties, Manufacturing and Uses	
27	Bellam J.B., Kandikunta G., Manupati B., Debabrata S., George P.P., Victor Vedanayakam S., Verma V.K.	DC sputter deposited TiO <sub>2</sub> thin film on ITO/glass substrate for perovskite based solar cell application	Materials Today: Proceedings	10.1016/j.matpr.2020.06.281
28	Arun S., Sooraj P.N., Hariprasad S., <b>Arunnelliappan T.</b> , Rameshbabu N.	Fabrication of superhydrophobic coating on PEO treated zirconium samples and its corrosion resistance	Materials Today: Proceedings	10.1016/j.matpr.2019.09.058
29	Shaik B., <b>Harinath Gowd G.</b> , Durga Prasad B.	Experimental and parametric studies with friction stir welding on aluminium alloys	Materials Today: Proceedings	10.1016/j.matpr.2019.07.615

S.No.	Authors	Title	Source Title	DOI
30	<b>Bopche G.S.</b> , Rai G.N., <b>Ramchandra Reddy B.</b> , Mehtre B.M.	Differential Attack Graph-Based Approach for Assessing Change in the Network Attack Surface	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	10.1007/978-3-030-36945-3_18
31	Chandramohan D., Manimaran A., Reddy R., Tripathi D.	Fog enabled secure and privacy obfuscation for iot services	Journal of Advanced Research in Dynamical and Control Systems	
32	Manimaran A., Chandramohan D.	A study on applications of internet of underwater things (IoUT)	Journal of Advanced Research in Dynamical and Control Systems	
33	Kumar V.S., <b>Jilani S.A.K.</b>	Modified transductive support vector machine for efficient facial expression recognition in video	Journal of Advanced Research in Dynamical and Control Systems	
34	<b>Shameem M.</b> , Chandra B., Kumar C., Khan A.A.	Impact of requirements volatility and flexible management on GSD project success: A study based on the dimensions of requirements volatility	International Journal of Agile Systems and Management	10.1504/IJASM.2019.101363
35	Reddy, BR; Ojha, A	Unobservable Components Modelling of Monthly Average Maximum and Minimum Temperature Patterns in India 1981-2015	INTERNATIONAL JOURNAL OF SYSTEM ASSURANCE ENGINEERING AND MANAGEMENT	10.1007/s13198-019-00828-3
36	Kumar A., Kumar M., <b>Nidhya R.</b>	ACO_NB-Based Hybrid Prediction Model for Medical Disease Diagnosis	Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning	10.4018/978-1-7998-2742-9.ch026
37	<b>Padma S.</b> , Pugazendi R.	Imparting OBE to the younger generation	Assessment Tools for Mapping Learning Outcomes With Learning Objectives	10.4018/978-1-7998-4784-7.ch003
38	De A., <b>Roy B.</b> , Bhattacharya A., Bharat G.V., Bhattacharjee A.K.	Compact UWB monopole antenna with WLAN and X-band satellite filtering characteristics	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020	10.1109/ICCAKM46823.2020.9051455
39	Manoj Kumar R., Haldar S., Rajesh K., Ghosh S., Lahiri D.	Comparative study on the efficacy of the UHMWPE surface modification by chemical etching and electrostatic spraying method for drug release by orthopedic implants	Materials Science and Engineering C	10.1016/j.msec.2019.110117
40	Muhiuddin G., Elnair M.E.A., Mahboob A., Shum K.P.	Energetic sets and $(\epsilon, \epsilon V q)$ -permeable values in BCK/BCI-algebras	Journal of Interdisciplinary Mathematics	10.1080/09720502.2019.1676960

S.No.	Authors	Title	Source Title	DOI
41	Narayana Reddy T., Mohana S., Gangisetty N., Rama Kumari M.	The impact of visual merchandising on consumer buying behaviour: A case of bangalore big bazaar	International Journal of Advanced Science and Technology	
42	Madav B.T., Jilani S.A.K., Aruna Mastani S.	Correlation based low complex video frame interpolation	International Journal of Engineering and Advanced Technology	10.35940/ijeat.A1328.109119
43	Reddy B.R., Ojha A.	How effective are maintainability metrics in estimating maintenance efforts? An empirical study	International Journal of System Assurance Engineering and Management	10.1007/s13198-019-00828-3
44	Reddy N.A., Seelam J.K., Rao S., Nagaraj M.K.	Flood estimation at ungauged catchments of western catchments of Karnataka, West coast of India	ISH Journal of Hydraulic Engineering	10.1080/09715010.2018.1426055
45	Shanmugaraja P., Chokkanathan K., Anitha J., Parveen Begam A., Naveenkumar N.	Dynamic packet scheduler for queuing real time and non real time internet traffic	International Journal of Recent Technology and Engineering	10.35940/ijrte.C5050.098319
46	Rajendra P., Subbarao A., Ramu G., Boadh R.	Identification of non-linear systems through convolutional neural network	International Journal of Recent Technology and Engineering	10.35940/ijrte.C5058.098319
47	Rajendra P., Ramesh Reddy P., Subbarao A., Boadh R.	Mathematical modelling to incorporate the uncertainty costs of electric power	International Journal of Innovative Technology and Exploring Engineering	10.35940/ijitee.K1925.0981119
48	Rajendra P., Murthy K.V.N., Subbarao A., Boadh R.	Use of ANN models in the prediction of meteorological data	Modeling Earth Systems and Environment	10.1007/s40808-019-00590-2
49	Sitara K., Mehtre B.M.	Differentiating synthetic and optical zooming for passive video forgery detection: An anti-forensic perspective	Digital Investigation	10.1016/j.diin.2019.05.001
50	Subbanna K., Gouse Mohiddin S., Bhuvana Vijaya R.	MHD free convective flow of a micro-polar fluid through a porous surface	AIP Conference Proceedings	10.1063/1.5122601
51	Prasad T.S., Yuvara C., Prahalada Rao K.	Preparation of ss 316l feedstock for metal injection molding (MIM) process	International Journal of Innovative Technology and Exploring Engineering	10.35940/ijitee.A1035.0881019
52	Sahu A.K.	Evaluation of anti-cancer oncology medicines pharmaceutical companies under chain of sustainable procurement	International Journal of Social Ecology and Sustainable Development	10.4018/IJSESD.2019070106
53	Sahu K., Sahu A.K.	Performance measurement of medicines delivery of pharmaceutical companies under chain of sustainable procurement	International Journal of Social Ecology and Sustainable Development	10.4018/IJSESD.2019070108
54	Srivastava A.K., Goel A., Srivastava J.	Spam detection and recovery model for WSN	International Journal of Recent Technology and Engineering	10.35940/ijrteB2289.078219

S.No.	Authors	Title	Source Title	DOI
55	Saravanan A., Senthilkumaar J.S., Jaisankar S., Ananth J.	Influence of helix twisted tape on heat transfer and friction factor in forced circulation V-trough solar water heater	International Journal of Sustainable Energy	10.1080/14786451.2018.1476352
56	Abdul Gaffar S., Ramachandra Prasad V., Ramesh Reddy P., Hidayathulla Khan B.M.	Radiative Flow of Third Grade Non-Newtonian Fluid from A Horizontal Circular Cylinder	Nonlinear Engineering	10.1515/nleng-2018-0078
57	Seeni Meera K., Arunbabu D.	Magnetic Cellulose Green Nanocomposite Adsorbents for the Removal of Heavy Metal Ions in Water/Wastewater	Materials Horizons: From Nature to Nanomaterials	10.1007/978-981-13-8063-1_18
58	Thirugnanasambandam K., Raghav R.S., Saravanan D., Prabu U., Rajeswari M.	Experimental analysis of ant system on travelling salesman problem dataset TSPLIB	EAI Endorsed Transactions on Pervasive Health and Technology	10.4108/eai.13-7-2018.163092
59	Teki S.M., Banothu B., Varma M.K.	An Un-realized Algorithm for Effective Privacy Preservation Using Classification and Regression Trees	Revue d'Intelligence Artificielle	10.18280/ria.330408
60	Kumar, RM; Haldar, S; Rajesh, K; Ghosh, S; Lahiri, D	Unobserved component modeling for seasonal rainfall patterns in Rayalaseema region, India 1951-2015	MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	10.1016/j.msec.2019.110117
61	Singh M.K., Alam P.	Attenuation and dispersion characteristic of Rayleigh waves in a compressed viscoelastic strip: a comparative study	Boletin de la Sociedad Matematica Mexicana	10.1007/s40590-020-00279-y
62	Singhal A., Chaudhary S.	Mechanics of 2D elastic stress waves propagation impacted by concentrated point source disturbance in composite material bars	Journal of Applied and Computational Mechanics	10.22055/JACM.2019.29666.1621
63	Murthy T.S., Roy M.S., Varma M.K.	Improving the Performance of Association Rules Hiding using Hybrid Optimization Algorithm	Journal of Applied Security Research	10.1080/19361610.2020.1756155
64	Prasad B., Kundu S., Pal P.C., Alam P.	Dispersion of Love waves in prestressed double-layered medium over a gravitating half-space	Arabian Journal of Geosciences	10.1007/s12517-020-05354-2
65	Khan M.F., Hasan M.G., Quddoos A., Fügenschuh A., Hasan S.S.	Goal programming models with linear and exponential fuzzy preference relations	Symmetry	10.3390/SYM12060934
66	Manimaran A., Chandramohan D., Shrinivas S.G., Arulkumar N.	A comprehensive novel model for network speech anomaly detection system using deep learning approach	International Journal of Speech Technology	10.1007/s10772-020-09693-z
67	Vasu B., Gorla R.S.R., Murthy P.V.S.N., Prasad V.R., Bég O.A., Siddiq S.	MHD Free Convection-Radiation Interaction in a Porous Medium-Part II: Soret/Dufour Effects	International Journal of Applied Mechanics and Engineering	10.2478/ijame-2020-0027

S.No.	Authors	Title	Source Title	DOI
68	Chakraborty S.	Reliable energy prediction method for grid connected photovoltaic power plants situated in hot and dry climatic condition	SN Applied Sciences	10.1007/s42452-020-2122-8
69	Yalla N., Narendra Babu A., Agarwal P.	A New MPC-5LRSS High Power Factor Converter	Conference Proceedings - IEEE Applied Power Electronics Conference and Exposition - APEC	10.1109/APEC39645.2020.9124164
70	Narendrababu A., Yalla N., Agarwal P.	Hybrid 2/3L Inverter with Unequal PV Array Voltages	Conference Proceedings - IEEE Applied Power Electronics Conference and Exposition - APEC	10.1109/APEC39645.2020.9124414
71	Kavitha A., Guravaiah K., Velusamy R.L.	A cluster-based routing strategy using gravitational search algorithm for WSN	Journal of Computing Science and Engineering	10.5626/JCSE.2020.14.1.26
72	Mamatha K.S., Jilani S.A.K.	Smart real time garbage management system	International Journal of Scientific and Technology Research	<a href="https://www.ijstr.org/final-print/mar2020/Smart-Real-Time-Garbage-Management-System.pdf">https://www.ijstr.org/final-print/mar2020/Smart-Real-Time-Garbage-Management-System.pdf</a>
73	Isanaka B.R., Akbar M.A., Mishra B.P., Kushvaha V.	Free vibration analysis of thin plates: Bare versus Stiffened	Engineering Research Express	10.1088/2631-8695/ab6264
74	Gupta S., Goel A.	New bipolar spectral amplitude code for cardinality enhancement in OCDMA network	Journal of Optics (India)	10.1007/s12596-020-00589-4
75	Viswanath N.M.K., Ramachandran S., Reganti H.R.	Modeling and predicting the patterns of seasonal rainfall in Tamil Nadu, India 1951–2017: an UCM approach	Arabian Journal of Geosciences	10.1007/s12517-020-5216-0
76	Muthukumar S., Rajakumar R., Dinesh K.	Clustering with classification based identification on diabetics disease to avoid blindness in early stage	International Journal of Scientific and Technology Research	<a href="https://www.ijstr.org/final-print/feb2020/Clustering-With-Classification-Based-Identification-On-Diabetics-Disease-To-Avoid-Blindness-In-Early-Stage.pdf">https://www.ijstr.org/final-print/feb2020/Clustering-With-Classification-Based-Identification-On-Diabetics-Disease-To-Avoid-Blindness-In-Early-Stage.pdf</a>
77	Singh M.K., Alam P.	Surface Wave Analysis in Orthotropic Composite Structure with Irregular Interfaces	International Journal of Applied and Computational Mathematics	10.1007/s40819-019-0745-5
78	Sivaiah P., Bodicherla U.	Effect of Surface Texture Tools and Minimum Quantity Lubrication (MQL) on tool Wear and Surface Roughness in CNC Turning of AISI 52100 Steel	Journal of The Institution of Engineers (India): Series C	10.1007/s40032-019-00512-2

S.No.	Authors	Title	Source Title	DOI
79	Shekhar S., Hoque S., Arif W.	Analysis of spectrum handoff delay using finite queuing model in cognitive radio networks	International Journal of Communication Networks and Distributed Systems	10.1504/IJCND.2020.109552
80	Goyal J.K., Aggarwal S., Sahoo P.R., Ghosh S., Kamal S.	Design of Robust PID Controller using Static Output Feedback framework	IFAC-PapersOnLine	10.1016/j.ifacol.2020.06.003
81	Marinov Y.G., Hadjichristov G.B., Vlahov T.E., Koduru H.K., Scaramuzza N.	Electrochemical impedance and dielectric spectroscopy study of TiO <sub>2</sub> -nanofilled PEO/PVP/NaIO <sub>4</sub> ionic polymer electrolytes	Bulgarian Chemical Communications	<a href="http://www.bcc.bas.bg/bcc_volumes/Volume_52_Special_E_2020/BCC-52-E-2020-57-61-Marinov-09.pdf">http://www.bcc.bas.bg/bcc_volumes/Volume_52_Special_E_2020/BCC-52-E-2020-57-61-Marinov-09.pdf</a>
82	Md. Hidayathulla Khan B., Abdul Gaffar S., Anwar Beg O., Kadir A., Ramesh Reddy P.	Computation of eyring-powell micropolar convective boundary layer flow from an inverted non-isothermal cone: Thermal polymer coating simulation	Computational Thermal Sciences	10.1615/computthermalsci.2020033860
83	Suresh S., Gowd G.H., Devakumar M.L.S.	Wear behavior of Al 7075/Al <sub>2</sub> O <sub>3</sub> /SiC Hybrid NMMC's by Stir Casting Method	Materials Today: Proceedings	10.1016/j.matpr.2020.04.275
84	Suresh S., Gowd G.H., Devakumar M.L.S.	Mechanical and wear Characteristics of Aluminium Alloy 7075 Reinforced with Nano-Aluminium Oxide/ Magnesium Particles by Stir casting Method	Materials Today: Proceedings	10.1016/j.matpr.2020.04.276
85	Chitti Babu Y., Su S., Kalpana R., Nithya M.	A heuristic data aggregation in heterogeneous low power devices for internet of things	Journal of Critical Reviews	10.31838/jcr.07.14.07
86	Yantrapalli S., Hari Krishna P.	A Study on Influence of Organic Ligand on the Adsorption of Lead by Clayey Soil	Lecture Notes in Civil Engineering	10.1007/978-981-15-3662-5_25
87	Karthik A., Amarnath A., Manohar Reddy T.M., Krishna V.T., Pavan Kumar A.V.	IoT-Based Automatic Irrigation Control	Lecture Notes in Electrical Engineering	10.1007/978-981-15-5262-5_63
88	Kumar R., Verma A.R., Panda M.K., Kumar P.	HRV Signal Feature Estimation and Classification for Healthcare System Based on Machine Learning	Communications in Computer and Information Science	10.1007/978-981-15-6318-8_36
89	Shaik B., Harinath Gowd G., Durgaprasad B.	Parametric Investigations on Friction Stir Welding of Aluminium Alloys	Lecture Notes in Mechanical Engineering	10.1007/978-981-32-9931-3_33
90	Anitha P., Ramanathan P.	Investigation of techniques to recognize optimal power structuring of vedic multiplier	Lecture Notes in Electrical Engineering	10.1007/978-981-15-3992-3_8
91	Shankar R., Bhardwaj L., Mishra R.K.	Analysis of selective-decode and forward relaying protocol over $\kappa$ - $\mu$ Fading channel distribution	Journal of Telecommunications and Information Technology	10.26636/jtit.2020.135919
92	Patra J.P., Singh P.	Improved signal detection techniques for QOSTBC system in fast fading channel	Journal of Telecommunications and Information Technology	10.26636/jtit.2020.138019

S.No.	Authors	Title	Source Title	DOI
93	Bojjagani S., Brabin D.R.D., Rao P.V.V.	PhishPreventer: A Secure Authentication Protocol for Prevention of Phishing Attacks in Mobile Environment with Formal Verification	Procedia Computer Science	10.1016/j.procs.2020.04.119
94	Bopche G.S., Rai G.N., Brabin D.R.D., Mehtre B.M.	A Proximity-Based Measure for Quantifying the Risk of Vulnerabilities	Communications in Computer and Information Science	10.1007/978-981-15-4825-3_4
95	Kumar I., Sachan V., Shankar R., Mishra R.K.	Performance Analysis of Multi-User Massive MIMO Systems with Perfect and Imperfect CSI	Procedia Computer Science	10.1016/j.procs.2020.03.356
96	Ranjan Mohanty P., Harshavardhan Reddy C.V.	Design and Analysis of PV-Based DSTATCOM with LCL Filter for Localized Distribution System	Lecture Notes in Electrical Engineering	10.1007/978-981-15-2256-7_35
97	Isanaka B.R., Abdul Akbar M., Kushvaha V., Mishra B.P.	Static analysis of thin plates: Bare and stiffened	INCAS Bulletin	10.13111/2066-8201.2020.12.1.7
98	Pavithra D., Jayanthi A.N., Nidhya R.	Comparison of Machine Learning Methods for Effective Autism Diagnosis	Advances in Intelligent Systems and Computing	10.1007/978-981-15-2475-2_58
99	Khan A., Li J.P., Haq A.U., Nazir S., Ahmad N., Varish N., Malik A., Patel S.H.	Partial Observer Decision Process Model for Crane-Robot Action	Scientific Programming	10.1155/2020/6349342
100	Kashwan K.R.	High Gain Patch Array Antenna for 5G Network Communication and IoT Applications	Advances in Intelligent Systems and Computing	10.1007/978-3-030-39875-0_13
101	Gupta N., Mathew A., Khandelwal S.	Spatio-temporal impact assessment of land use / land cover (LU-LC) change on land surface temperatures over Jaipur city in India	International Journal of Urban Sustainable Development	10.1080/19463138.2020.1727908
102	Padmanabha Reddy Y.C.A., Mohan Krishna Varma N.	Review on supervised learning techniques	Advances in Intelligent Systems and Computing	10.1007/978-981-15-0135-7_53
103	Sudhakar R., Venkateswara Rao P.V., Mohan Krishna Varma N.	Novel probabilistic clustering with adaptive actor critic neural network (AACN) for intrusion detection techniques	Advances in Intelligent Systems and Computing	10.1007/978-981-15-0135-7_51
104	Venkateswara Rao P.V., Mohan Krishna Varma N., Sudhakar R.	A systematic survey on software-defined networks, routing protocols and security infrastructure for underwater wireless sensor networks (UWSNs)	Advances in Intelligent Systems and Computing	10.1007/978-981-15-0135-7_50
105	Tripathi D., Manoj I., Raja Prasanth G., Neeraja K., Varma M.K., Ramachandra Reddy B.	Survey on classification and feature selection approaches for disease diagnosis	Advances in Intelligent Systems and Computing	10.1007/978-981-15-0135-7_52
106	Lakshmi B.R., Hampamma G., Chitra V.B.	Disjuncture between the power and truths in Indira Ganesan"s "The Journey"	International Journal of Scientific and Technology Research	<a href="https://www.ijstr.org/final-print/jan2020/Disjuncture-Between-The-Power-And-Truths-In-Indira-Ganesans-the-Journey.pdf">https://www.ijstr.org/final-print/jan2020/Disjuncture-Between-The-Power-And-Truths-In-Indira-Ganesans-the-Journey.pdf</a>



<b>S.No.</b>	<b>Authors</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
107	Kumar M., Kumar R., Nidhya R.	WOAMSA: Whale optimization algorithm for multiple sequence alignment of protein sequence	Advances in Intelligent Systems and Computing	10.1007/978-3-030-37218-7_15
108	Bharathi V.C., Veningston K., Venkateswara Rao P.V.	Query-Based Word Spotting in Handwritten Documents Using HMM	Advances in Intelligent Systems and Computing	10.1007/978-981-15-1097-7_4
109	Daneti S.B., Bagadi M., Dasari P.K.	Thick Section Casting Specifications and Practices in Singapore	Lecture Notes in Civil Engineering	10.1007/978-981-15-1404-3_15
110	Lipare A., Reddy Edla D., Cheruku R., Tripathi D.	GWO-GA Based Load Balanced and Energy Efficient Clustering Approach for WSN	Smart Innovation, Systems and Technologies	10.1007/978-981-15-0077-0_29
111	Agarwal L., Singh B.K., Tripathi S., Chakrabarti P.	Work Function Estimation of Copper-Doped ZnO Thin Film	Lecture Notes in Electrical Engineering	10.1007/978-981-32-9775-3_58
112	Veningston K., Venkateswara Rao P.V.	An Efficient Privacy-Preserving Search Technique for Encrypted Cloud Data	Advances in Intelligent Systems and Computing	10.1007/978-981-32-9186-7_11
113	Itharajula M.	Air pollutants level detection and control in vehicle using an intelligent system	Lecture Notes in Electrical Engineering	10.1007/978-981-13-8942-9_48
114	Gaffar S.A., Reddy P.R., Prasad V.R., Rao A.S., Khan B.M.H.	Viscoelastic micropolar convection flows from an inclined plane with nonlinear temperature: A numerical study	Journal of Applied and Computational Mechanics	10.22055/JACM.2019.28695.1498
115	Ali R., Chandrakar P., Kumar A.	On the security weaknesses in password-based anonymous authentication scheme for E-health care	Lecture Notes in Networks and Systems	10.1007/978-981-13-9574-1_2
116	Singh S.K., Kumar P.	A comprehensive survey on trajectory schemes for data collection using mobile elements in WSNs	Journal of Ambient Intelligence and Humanized Computing	10.1007/s12652-019-01268-4
117	Veningston K., Kadry S., Kalash H.S., Balamurugan B., Sathiyaraj R.	Intelligent social network based data modeling for improving health care	Health and Technology	10.1007/s12553-019-00303-w

## List of Publications - UGC Care Journal Papers for the AY:2021-22

S.No.	Name of the Author/s	Title	Source Title	DOI
1	Dr.KP Manikandan	Securing Product Based Integrity with Blockchain Based Verification Solutions	International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)	<a href="https://ijercse.com/">https://ijercse.com/</a>
2	GOWTHAM A	PREDICTION OF LENGTH OF STAY OF PATIENTS AT HOSPITALS	NOVYI MIR Research Journal	16.10098.NMRJ.2022.V8I5.256342.37558
3	GOWTHAM A	STRESS DETECTION BASED ON SOCIAL MEDIA BLOGS	NOVYI MIR Research Journal	16.10098.NMRJ.2022.V8I5.256342.37575
4	Nikita Manne, G Vinoda Reddy, M. Sreenu Naik, Kondabathula Durga Charan	Design of a Novel Network Framework for Traffic Identification by Using Deep Packet Inspection and Machine Learning	International Journal of Scientific Research in Science and Technology	<a href="https://doi.org/10.32628/IJSRST229561">https://doi.org/10.32628/IJSRST229561</a>
5	K. Durga Charan, Afreen Subuhi, Potlacheruvu Archana, Karnati Durga, B. Kumara Swamy	Wireless Sensors in IoT Based Agriculture by Using Block Chain Technology and Drones System	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	<a href="https://doi.org/10.32628/CSEIT239041">https://doi.org/10.32628/CSEIT239041</a>
6	Manideep Kuntimaddi, Shahina Burudapeta, Shakoor Baba Dori, Yaswanth Kumar Polupoina, Arul kumar K	Performance Analysis of Single Phase Inverter Using Different Modulations Techniques	<i>International Journal for Research Trends and Innovation</i>	10.6084/m9.doione.IJRTI2305106
7	R.THEJESWINI, L.Veneela, CV.Swaroop Kumar, S.Sreemanth Reddy, B.sreenivasulu, Thurai Raaj V B	Power Quality Improvement PV based Using D-STATCOM	<i>International Journal for Research Trends and Innovation</i>	10.6084/m9.doione.IJRTI2305068
8	Dr. R Sriganesh	Critical Issues in ELT	Language and Language Teaching	Critical-Issues-in-ELT-issue-23.pdf (ilt.org.in)

S.No.	Name of the Author/s	Title	Source Title	DOI
9	Purushotham Chalapathi	English for Technical Communication (Book Review)	LangLit: An International Peer-Reviewed Open Access Journal ISSN 2349-5189	<a href="https://drive.google.com/file/d/1twvvnDLNorrjXNG94TWHH2Ur-EuViXdH/view">https://drive.google.com/file/d/1twvvnDLNorrjXNG94TWHH2Ur-EuViXdH/view</a>
10	Purushotham Chalapathi	Balagam: Barābar A Telangāna Sainmā!	E-CineIndia ISSN: 2582-2500	<a href="https://fipresci-india.org/wp-content/uploads/2023/07/8.-Purushotham-Chalapathi-Balagam.pdf">https://fipresci-india.org/wp-content/uploads/2023/07/8.-Purushotham-Chalapathi-Balagam.pdf</a>
11	Purushotham Chalapathi	Kantara: The Representation of ‘Daivam Manushya Rupena!’ Kantara: The Representation of ‘Daivam Manushya Rupena!’	E-CineIndia ISSN: 2582-2500	<a href="https://fipresci-india.org/wp-content/uploads/2023/01/19.-Ctitique-Purushotham-Chalapathi-Kantara.pdf">https://fipresci-india.org/wp-content/uploads/2023/01/19.-Ctitique-Purushotham-Chalapathi-Kantara.pdf</a>
12	Mohammad Salahuddin Khan, Adnan Abbasi, Shakir Ali <sup>SEP</sup> and Mohammed Ayedh <sup>SEP</sup>	On prime ideals with generalized derivations in rings with involution	Contemporary Mathematics by AIMS	<a href="https://doi.org/10.1090/conm/785/15785">https://doi.org/10.1090/conm/785/15785</a>
13	M. A. Madni, M. R. Mozumder, W. Ahmed, A. Abbasi, A. Ramesh	Note on differential identities on $\sigma$ -prime rings with involution	Mathematics Open	<a href="https://doi.org/10.1142/S2811007223500050">https://doi.org/10.1142/S2811007223500050</a>
14	Dr.C.Damodharan, K Manju Vikram	COMPARATIVE ANALYSIS OF SELECTED PHYSICAL AND PHYSIOLOGICAL PARAMETERS BETWEEN THROWERS AND JUMPERS OF COLLEGE LEVEL MEN STUDENTS	Journal of Emerging Technologies and Innovative Research	ISSN-2349-5162
15	Dr.C.Damodharan	Effect of aerobic circuit training and parcours training on selected physical and physiological variables among College men students	A Peer Reviewed International Research Journal	ISSN-2231-3265
16	Mr. T. Thangarasan	INTERPRETATION OF VEGETATION USING AI IN QGIS (QUANTUM GEOGRAPHIC INFORMATION SYSTEM)	GIS SCIENCE JOURNAL	DOI:20.18001.GSJ.2022.V9I12.22.40483 <a href="https://gisscience.net/volume-9-issue-12-2022/">https://gisscience.net/volume-9-issue-12-2022/</a>

S.No.	Name of the Author/s	Title	Source Title	DOI
17	Mr. T. Thangarasan	Analyzing and Detecting the Boundary in Medical Images and Utilizing Big Data	International Journal of All Research Education and Scientific Methods (IJARESM)	<a href="http://www.ijaresm.com/volume-11/issue-3">http://www.ijaresm.com/volume-11/issue-3</a>
18	Dr. D. J. Ashpin Pabi	The Role of Knowledge Management in Hr Activities Within Organization	European Economic Letters	<a href="https://doi.org/10.52783/eel.v13i1.149">https://doi.org/10.52783/eel.v13i1.149</a>
19	Mr. B. Anandaraj	HUMAN ACTIVITY RECOGNITION USING LOGISTIC REGRESSION ALONG WITH MACHINE LEARNING ALGORITHMS	NOVYI MIR Research Journal	
20	Mr. B. Anandaraj	Lung Cancer Classification Using SVM And CNN Models	Bulletin For Technology And History Journal	
21	Mr. B. Anandaraj	Electric Vehicle Charging Load Forecasting and Scheduling using DL	International Journal of Novel Research and Development	
22	BSH Shayeez Ahamed	Currency Classification Using Deep Learning	International Journal of Advances in Engineering and Management (IAEM)	10.35629/5252-0407317323
23	BSH Shayeez Ahamed	Skin Cancer Detection Using Deep Learning	Bulletin For Technology And History Journal an UGC Care Group - II Approved Journal	<a href="https://bthnl.com/volume-23-issue-5-2023/">https://bthnl.com/volume-23-issue-5-2023/</a>
24	K Hazee Shabbeer Basha	Mental Health Prediction of Employees at Work Place using Machine Learning	International Journal of All Research Education and Scientific Methods(IJARESM)	<a href="http://www.ijaresm.com/mental-health-prediction-of-employees-at-the-workplace-using-machine-learning">http://www.ijaresm.com/mental-health-prediction-of-employees-at-the-workplace-using-machine-learning</a>

<b>S.No.</b>	<b>Name of the Author/s</b>	<b>Title</b>	<b>Source Title</b>	<b>DOI</b>
25	Mr. G. Sreenivasulu	Prediction and investigation of diabetic retinopathy using ensemble classification in deep learning techniques	NOVYI MIR Research Journal	DOI: 16 10098 NMRJ
26	Mr. G. Sreenivasulu	URINARY BIOMARKERS FOR PANCREATIC CANCER PREDICTION USING RANDOM FOREST ALGORITHM	NOVYI MIR Research Journal	DOI: 16 10098 NMRJ
27	Mrs G B Renuka	CHATBOT Based On emotions using Deep Learning	Bulletin for Technology and history Journal	DOI:10.37326/bthnlv22.1/1229
28	K.Sathish	Sign Language Detection Using Deep Learning	GIS SCIENCE JOURNAL	
29	K.Sathish	Prediction of chronic kidney disease using Machine learning	Strad research	10.1109/Access.2021.3053763
30	P Kaliyamoorthi	Spam Transformer model for SMS spam detection	GIS SCIENCE JOURNAL	
31	Mrs Nirupa	Traffic prediction for intelligent transportation using ML	GIS SCIENCE JOURNAL	
32	Mrs Nirupa	Weather prediction super regression in ML	GIS SCIENCE JOURNAL	

### List of Publications - UGC Care Journal Papers for the AY:2021-22

S.No.	Name of the Author/s	Title	Source Title	DOI
1	R. Sivaiah, R. Saravana	Physical significations of rotation and hall current effects on hemodynamic physiological Jeffery fluid with porous medium through tapared channel	Advances in Fluid Dynamics, Lecture notes in Mechanical Engineering	10.1007/978-981-15-4308-1_45
2	Ahsan Mahboob, Noor MOHAMMAD Khan	The relations $mly, yln, ybn, yqn$ and $yhn$ in le-r-semi groups	South East Asian Bulletin of Mathematics	
3	G. Muhiuddin, Ahsan Mahboob, Noor MOHAMMAD Khan	A new study based on Fuzzy Bi-gamma-ideals in ordered semi groups	Journal of Computational and Cognitive Engineering	10.47852/bonviewJCCE19919205514
4	Chandramuleswar Roy, Naveen	Design of Noise tolerance 9TSRAM Cell	ICTACT Journal on microelectronics	2395-1680

### List of Publications - UGC Care Journal Papers for the AY:2020-21

S.No.	Name of the Author/s	Title	Source Title	DOI
1	Gowripeddi Hari Kumar, Dr. N. Ramanjaneyulu, Dr. K.V. Geetha Devi	Customer Viewpoint: A Comparative Analysis between Commercial Banks And RRBs	The International journal of analytical and experimental modal analysis	DOI:18.0002.IJAEMA.2021.V13I1.200001.015685902065 ISSN NO:0886-9367
2	P.Sarwesh, K.Chandrasekaran, S.Thamizarasan	Network Blueprint for Maximizing the life time of smart devices in Low power IoT Networks	International journal of Grid and high performance computing	10.4018/IJGHP.2021040102
3	Rao KS, Beatriceveena, TV Angani, CS Agarwal, L	Novel time domain parameters for detection and clasification of flaws using plused eddy current technique	Journal of magnetics	10.4283/JMAG.2020.25.3.434
4	Sambasiva Rao K & Lucky Agarwal	High efficiency solar cells with a plannar nanostructure junction	Nano medicine & Nanotechnology	10.23880/nanoa-16000202
5	Bhardwaj, Lokesh & mishra, Ritesh & Shankar, Ravi	Investigation of low density parity check code concatenated multi user massive multiple input multiple output systems with imerfect channel state information	Journal of defence modelling and simulation: applications, methodology, technology	10.1177/1548512920968639
6	Amir H. Ghahremani, Sahar Pishgar, Jitendra Bahadur and Thad Druffel	Intense Pulse Light annealing of perovskite photovoltaics using gradient flashes	ACS Applied Energy materials	10.1021/acsaen.0c01520
7	Arvindra kumar, Sharvan ram	Online spotlight: a planar cavity-backed self triplexing slot antenna for planar integration	microwave journal	

## List of Publications - UGC Care Journal Papers for the AY:2019-20

S.No.	Name of the Author/s	Title	Source Title	DOI
1	P. Shanmugaraja, K. Chokkanathan, J. Anitha, A. Parveen Begam, N.Naveenkumar	Dynamic Packet Scheduler for Queuing Real Time and Non Real Time Internet Traffic	International Journal of Recent Technology and Engineering (IJRTE)	<a href="https://www.ijrte.org/wp-content/uploads/papers/v8i3/C5050098319.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i3/C5050098319.pdf</a>
2	Manimaran A	A comprehensive novel model for network speech anomaly detection system using deep learning approach	International Journal of Speech Technology (2020)	<a href="https://doi.org/10.1007/s10772-020-09693-z">https://doi.org/10.1007/s10772-020-09693-z</a>
3	Thamizhmanii S, Yuvaraj C, Sethilkumar JS, Arun I, Sulaiman	Effect of feed rate on difficult to cut metals on Surface roughness and tool wear using Surface treated and untreated tools	Procedia Manufacturing	10.1016/j.promfg.2019.02.032
4	Shankar R, Kumar I, Mishra R K	Pairwise error probability ananalysis of dual hop relaying netwrok over time selective nakagami-mfading channel with imperfect CSI and node mobility	Traitement du Signal	10.18280/ds.360312
5	K S Mamatha, S A K Jilani	Smart real time garbage management system	International Journal of scientific and Technology	2277-8616



## List of Patents for the AY:2022-23

Annexure - 71

S.No.	Patent Application No.	Faculty Name	Title of the Patent	Patent Filed Date: (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Status of Patent (Applied/Published / Granted)
1	202241053184	Dr. N. Saranya Devi Dr. A. Anupama Dr. Senthil Kumar J. P Dr. Aluvala Ravi Dr. V. Tamizhazhagan Mr. D. Saravanan Mr. R. Rajesh Dr. R. Rameshkumar Dr. G. Arunkumar	Transaction Flows And Transaction Processing For Bridged Payment Systems Using Machine Learning	16-09-2022	23-09-2022	Awaiting Request for Examination
2	202241053184	Dr.G.Arunkumar	Transaction Flows And Transaction Processing For Bridged Payment Systems Using Machine Learning	16-09-2022	23-09-2022	Published
3	202241054320	Mr.V.Naveen	Design Smart System of Night Vision Patrolling Robot using Cloud-based-IOT with AI		12.09.22	Published
4	202221048349	Dr. Sushil Beliya Dr. R. Rameshkumar Dr. G. Arunkumar Mr. D. Saravanan Mrs. P Lavanya Dr. B. Kavya Santhoshi Dr. D. Stalin David Mrs. Choudari Lakshmi Mr. J. Jaganathan	Human Resource Recommendation Algorithm Based On Machine Learning	24-08-2022	09-09-2022	Awaiting Request for Examination
5	202221048349	Dr.G.Arunkumar	Human Resource Recommendation Algorithm Based On Machine Learning	24-08-2022	09-09-2022	Published
6	TEMP/E-1/58451/2022-CHE	Mr.K.Sathish	A Convolutional Neural Network Based Structural Health Monitoring System	10-08-2022	06-09-2022	Published
7	202241043334 A	M.Boimmy, Dr. D. Jagadeesan, Mr.J.NAGARAJ, Mr. Anandaraj B, Dr. R. Sundar	Automated Economy Risk Prediction In Sentiment Analysis	28-07-2022	19-08-2022	Published

S.No.	Patent Application No.	Faculty Name	Title of the Patent	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Status of Patent (Applied/Published / Granted)
8	202241041430	Ms. R. Subhashini, Dr. B. Bhavya, Ms. Meenakshi Gupta, Mr. D. Saravanan, Dr. G. Arunkumar, Dr. Eyo Itam Eyo, Dr. Rashmi B H, Dr. R. Rameshkumar, Dr. D. Stalin David, Dr. Shashi Kant Gupta	Customer's Earnings, Savings, And Financial History- Classification Using Machine Learning Technology	19-07-2022	29-07-2022	Awaiting Request for Examination
9	202241041430	Dr.G.Arunkumar	Customer'S Earnings, Savings, And Financial History- Classification Using Machine Learning Technology	19-07-2022	29-07-2022	Published
10	202241040787 A	Dr S Elango	Customized And Dynamic Learning Programs Using MI And AI	16-07-2022	22-07-2022	Published
11	365810-001	Dr. M. Lakshmana Rao	Multipurpose Crank slot sprayer	09.06.2022		Applied
12	368300-001	Dr. M. Lakshmana Rao	Lever- based weed removal tool	26.07.2022		Applied
13		Dr. K. Lakshmikhandan	Power Distribution System Planning For Smart Grid Applications Using Ann	15.08.2022		Applied
14	202242037887	Dr. Balaji damodhar	This invention is related to COVID detection and prevention of spreading using thermal cameras (100) especially in crowded places and implement UV disinfecting systems (200) to kill bacteria.	30.06.02022		Applied
15	202241047490	Dr. S.V.S. Ganga Devi	IoT Based stress level identification in EEG signal using Artificial intelligence technique	20-08-2022		Applied
16	1193891	Mr Soumya Ranjan Jena	Cyber Crime Rate Prediction using Deep Learning and AI	2022		Published
17	202241065148	Dr.G.Arunkumar	Effectiveness Of Business Model For Startup Company	25-11-2023	25-11-2022	Published

S.No.	Patent Application No.	Faculty Name	Title of the Patent	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Status of Patent (Applied/Published / Granted)
18	202241065148	Dr. Lavanya L Dr. I. Shanmugapriya Dr. H. Hari Harasudha Dr. R. Monisha Dr. G. Arunkumar Dr. R. Rameshkumar Mr. D. Saravanan Dr. Kalpana P Mr. Krishna Kishore Datti	Effectiveness Of Business Model For Startup Company	14-11-2022	25-11-2022	Awaiting Request for Examination
19	202241062969	Dr K P Manikandan	Flying Network Secured Communication With Machine Learning Enabled Environment	03-11-2022	18-11-2022	Published
20	202241060839	Dr M Sivakumar	An Advanced image processing system using combination of IoT and cloud computing working method	25.10.2022	18.11.2022	Published
21	202241054975	Dr.N.Praveena	Cryptographic hash encryption secure algorithm of confidential data by user validating scheme for the medical healthcare		17.10.22	Published
22	202241054752	Dr M Sivakumar	A Deep Learning based image processing in computer tomography angiography with machine learning interfaces and methods	23.09.2022	14.10.2022	Published
23	202241053438	Mr. G. Muthugurunathan	Artificial Neural Network Based System For Predicting Child Mental Stress	19-09-2022	14-10-2022	Published
24	202241053859 A	Ramya P	IoT based energy efficient MAC protocol for LEO satellite constellations.	20-09-2022	14-10-2022	Published
25	202241055441	Dr.G.Arunkumar	Development Of Electronic Employee Selection Process And Method Management System	03-10-2022	14-10-2022	Published

S.No.	Patent Application No.	Faculty Name	Title of the Patent	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Status of Patent (Applied/Published / Granted)
26	202241055441	Mrs. R. Meenambigai Dr. Sushil Belya Mr. D. Saravanan Dr. Shivilal Mewada Mr. Navnit Kumar Shukla Ms. Ayushi Gaur Dr. Jasmeet Kaur Ghuman Dr. R. Rameshkumar Mr. Krishna Kishore Datti Dr. G. Arunkumar	Development Of Electronic Employee Selection Process And Method Management System	27-09-2022	14-10-2022	Awaiting Request for Examination
27	379250-001	Dr.N.Praveena	Blockchain using Smart Parking System	14.02.23		Applied
28	202341000087 A	B Bhaskar	Design And Performance Of Charge-Plasma-Based Schottky-Fet Cmos Circuit Ring Oscillator For High Density Ics	02-01-2023	27-01-2023	Published
29	381042-001	Dr. L. Anantha Raman	Battery Pack For Electric Vehicle	07-03-2023	18-05-2023	Published
30	381139-001	Dr. L. Anantha Raman	Hydrogen Fuel Bike	09-03-2023	23-05-2023	Published
31	382157-001	Dr. L. Anantha Raman	Air And Water Quality Identifying Pen	23-03-2023	23-05-2023	Published
32	382160-001	Dr. L. Anantha Raman	Milk Quality Analysing Device	23-03-2023	25-05-2023	Published
33	6275188	Dr. L. Anantha Raman	Automated Headlight Intensity Controller for Bike	12-04-2023	24-04-2023	Granted

## Grants Sactioned from Various Funding Agencies from 2018-19 to 2022-23

S.No.	Funding Agency - Scheme	2022-23	2021-22	2020-21	2019-20	2018-19
<b>Research Projects Sanctioned</b>						
1	ISRO - Respond - 01				27.04(1)	
2	DST-Early Career Research Award (ECRA) - 03					109.60(3)
3	Dassault Systemes Foundation - 02					26.50(2)
4	DST-Scheme for Young Scientists & Technologist (SYST) -01					28.81(1)
5	DST-Start up Research Grant* - 02				30.13(2)	
6	DST-Core Research Grant* - 01				32(1)	
7	AICTE Research promotion Scheme - 01			18.93(1)		
8	UGC - DAE CSR Project - 01	1.50(1)				
	<b>Total: 274.51 Lakhs For 12 Projects</b>	<b>1.50(1)</b>		<b>18.93(1)</b>	<b>89.17(4)</b>	<b>164.91(6)</b>
<b>Institutional Projects Scanctioned</b>						
9	MSME Innovative Scheme - 02	25.23(2)				
	<b>Total: 25.23 Lakhs For 2 Projects</b>	<b>25.23(2)</b>				
<b>Schemes &amp; Programs Sanctioned</b>						
10	AICTE Quality Improvements Schemes (AQIS) - 12		2.79(1) ISTE	5.96(1) M	58.78(6) M,SA,ST	47.50(4) F,P,M,SP
11	DST-Science & Engineering Research Board (SERB) - 03	2.40(1)	0.88(1) ITS			1.48(1) ITS
	<b>Total: 119.79 Lakhs For 15 Programs</b>	<b>2.40(1)</b>	<b>3.67(2)</b>	<b>5.96(1)</b>	<b>58.78(6)</b>	<b>48.98(5)</b>
<b>**S-Seminar, C-Conference, W-Workshop, ITS-International Travel Support, F-FDP/FTP, M-MODROBS, P-PRERANA, SP-SPDP, Samruddhi-SA, STTP-ST</b>						
<b>Grand Total</b>					<b>419.53 Lakhs</b>	



தமிழ்நாடு TAMILNADU

18 NOV 2022

CS 822377  
S. KUMARAVELU

STAMP VENDOR

L. No: 28/CH (S) 2010 dt 02-03-2011

No. 19/22, Arishwarya Colony,  
Nagar, Chennai - 600 020.

This is a Memorandum of Understanding (MOU) dated 11.01.2023

BETWEEN

Madanapalle Institute of Technology & Science (MITS), Madanapalle represented by the Principal with its headquarters located at Madanapalle which expression shall, where the context so admits, be deemed to include its successors, executors, and administrators of the ONE PART

AND

National Institute of Technical Teachers Training and Research (NITTTR), Chennai (Henceforth will be mentioned as NITTTR, Chennai) having its head office at the Taramani, Chennai - 600113, India, represented by its Director, which expression shall, where the context so admits, be deemed to include its successors, executors and administrators of the OTHER PART

Madanapalle Institute of Technology & Science (MITS), Madanapalle and National Institute of Technical Teachers Training and Research (NITTTR), Chennai will henceforth be referred to as the 'Parties'. Accordingly the Parties have decided to enter into this MoU for the aforesaid objectives on the terms & conditions as mentioned hereunder

*Umapathes*



## 1. OBJECTIVES and PURPOSE

1.1 The Parties want to cooperate and/or share information with each other to make the most of each other's specialised skills, or knowledge and industry partners for their mutual benefit. They want to establish a framework for collaboration to enable them to work together to achieve their shared objective of promoting Training, academic and education co-operation to support specific co-operation in the development and delivery of agreed Training, academic and research programs. This will underpin the shared commitment of both institutions in transforming professional education to improve health equity.

1.2 This MoU sets out the initial level of cooperation and collaboration between the Parties and how they intend to develop a closer understanding and relationship between one another in the development and delivery of potential future agreed practice-led research and education programs relating to the Purpose.

## 2. SCOPE

The scope of this MoU is to clearly identify the roles and responsibilities of each party as they relate to collaborate on training, academic and research activities and contribute towards knowledge exchange as and when needed. The purpose of this MoU is to clearly identify the roles and responsibilities of each party.

- (i) To Train the faculty members of MITS seamlessly in the areas of Pedagogy, Curriculum Development, Question Paper Setting, Continuous Assessment Practices, Evaluation Methodology, Academic Audit, Accreditation, etc.
- (ii) To collaboratively train the faculty members (Offline / Online / Blended) across the country on the emerging / Thrust areas.
- (iii) Training, Academic and Research collaboration in the areas of mutual interest. It is expected that this collaboration will in due course lead to collaborative research projects, internships, offering pedagogy courses, joint supervision of master's students, joint workshops and seminars, webinars, etc.
- (iv) To jointly collaborate with industries as a tripartite model of Public-Private Partnership (PPP) in the areas of Skill Upgradation, working with industries' Critical/ Challenging problems to provide effective solutions to the industries through Consultancy/Project works, and utilize the service of industries' Subject Matter Experts on mutual benefits.
- (v) Exchange of students and faculty, exchange of academic information, scholarly information, materials, and publications.



*umapathin*




shall apply in the matter of the reference. The award of the Arbitrator shall be final and binding on both parties. Only Courts at Chennai shall have jurisdiction to entertain a claim or for enforcement of the award. The Memorandum of Understanding may be modified or amended by a written agreement between the Parties.

IN WITNESS WHEREOF, the parties have hereunto set and subscribed their respective hands and seals on the day, month and year first herein above mentioned.


  
Principal,  
Madanapalle Institute of  
Technology & Science,  
Madanapalle,  
Andhra Pradesh, 517326

  
Director  
National Institute of  
Technical Teachers Training and Research  
(NITTTR),  
Ministry of Education, Government of India,  
Taramani, Chennai-600113  
Tamilnadu, INDIA.




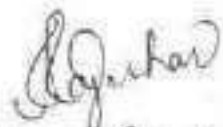
IN THE PRESENCE OF  
  
(Dr. P. RAMANATHAN)  
VP Academics, MITS

Witness 1

  
(Dr. K. ABDULKUMAR)  
ASSOCIATE PROFESSOR  
Witness 2

IN THE PRESENCE OF

  
(Dr. R. S. M. SURESH)  
Professor of Civil Engg  
& Head, Dept. Etc.

  
Witness 2 (Dr. R. RAJENDRAN)  
Prof & Head  
Centre for EM & RS  
NITTTR, Chennai



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-620015

Date: 01-11-2018

NITT/AICTE/ICE/NSK/18-19/01

To  
The Principal,  
Madanapalle Institute of Technology and Science,  
Madanapalle, Andhra Pradesh.

Dear Sir/Madam

Ref. File No.58-11/RFID/ Margdarshan/2018-19 dated June 13,2018

With reference to the above, we are happy to inform you that NIT, Tiruchirappalli was selected as a **Mentor Institution**.

In this regard, we request your institute to participate in this scheme as a share institute. Kindly send your confirmation for participating in the above scheme by sending us your acceptance letter as per the format enclosed.

Further we request you to nominate a coordinator from your institute for further interactions.

Looking forward your kind cooperation and support.



Dr.N.Sivakumaran  
Professor/ICE, NIT-Trichy  
Chief Coordinator



Dr.G. Saravana Ilango  
Associate Professor/EEE, NIT-Trichy  
Co-coordinator



**MEMORANDUM OF AGREEMENT**

**BETWEEN**

**MADANAPALLE INSTITUTE OF**

**TECHNOLOGY & SCIENCE**

**&**

**ASIA UNIVERSITY**

**TOWARDS**

**MUTUAL COOPERATION IN**

**ACADEMIC & RESEARCH**

**WORK**

**FOR 1 YEAR at MITS+1 YEAR at AU MASTERS PROGRAM**

1. This Memorandum of Agreement (MoA) signed on the 7<sup>th</sup> day of the July month Two Thousand Twenty Three between Asia University, (represented by Prof. Ching-Hsien Hsu) Wufeng District of Taichung City, Taiwan (hereinafter referred to as AU) and Madanapalle Institute of Science & Technology (represented by Dr C. Yuvraj), an Autonomous Institute and Affiliated to JNTU Anantapuram Madanapalle, Andhra Pradesh, India, (hereinafter referred to as MITS) for the purpose of synergizing the resources and the expertise of AU with MITS to create skilled workforce in the area of electronic design and manufacturing in line with India's focuses & scope for rapid development in the integrated chip manufacturing industry. This MoA also aims to promote the mutual cooperation between the two parties, with AU endeavouring to provide the best quality education & training services to students and faculty of MITS in areas of mutual interest and applications, with AU hosting MITS faculty & students at AU for joint research & development.

#### **PREAMBLE**

#### **2. ASIAUNIVERSITY(AU), TAIWAN**

ASIA UNIVERSITY (AU) is a private, comprehensive and research-intensive university, founded in Wufeng District, Taichung City, Taiwan, in 2001, with the goal of establishing a world-renowned university. According to Karl Jaspers, a German philosopher, an ideal university must have three features-- academic teaching, scientific research, and a creative cultural life, which are exactly what AU has been pursuing since its establishment.

Over the past 20 years, AU has demonstrated excellence in academic performance, and was ranked the first place in many of the higher education evaluations conducted by the Ministry of Education (MOE), Taiwan. AU was not only ranked one of the best among newly-established universities in Taiwan, but also granted with huge funding for the honored projects collectively called the Program for Promoting Teaching Excellence Universities from the MOE for 13 years consecutively. Meanwhile, AU has achieved international reputation and accolade by several world university rankings, including *Times Higher Education World University Rankings*, *Shanghai Academic Ranking of World Universities*, *USNews & World Report Global University Rankings*, and *QS Global University Rankings*. Based on the *Times Higher Education*, Asia University was one of the top100 best universities in the world younger than 50 years.

#### **3. Madanapalle Institute of Technology & Science (MITS), Andhra Pradesh, India**

Madanapalle Institute of Technology & Science is established in 1998 in the picturesque and pleasant environs of Madanapalle and is ideally located on a sprawling 26.17-acre campus on Madanapalle - Ananthapuramu Highway (NH-205) near Angallu, about 10 km away from Madanapalle and 120 km from Bangalore Airport.

6. NOW, THEREFORE, in consideration of the mutual promises made herein and of good and valuable consideration, the receipt and sufficiency of which both MITS & AU here by acknowledge, and further MITS & AU hereby agree to sign a Memorandum of Agreement (MoA).

**ARTICLE-I: SCOPE OF THE MoA**

7. This MoA details the modalities and general conditions regarding the collaboration between MITS & AU. To begin with, the following shall receive immediate focus from MITS & AU:

- i) Full-time course-work at AU as part of MITS's M.Tech programme in VLSI Design for the batch starting from 2024-25.
- ii) AU faculty mentoring in-school project work at AU advanced facilities
- i) AU faculty mentoring for 20-24 weeks' Industry internship in semiconductor industry facilities.
- ii) Periodical industrial visit including the state of the art National Labs established by NSTC, Taiwan
- ii) Basic Orientation to the Mandarin Language

MITS shall admit students to its M.Tech. programme in VLSI Design beginning from the academic year 2024-26. Such students shall complete the requisite course and lab work during the 1<sup>st</sup> and 2<sup>nd</sup> semester of the programme in MITS. On completion of their first year, students shall be visiting AU for their 3<sup>rd</sup> & 4<sup>th</sup> semester. The 3<sup>rd</sup> semester shall comprise course-work as jointly prescribed by AU & MITS to be delivered on a full-time basis by AU faculty at their university campus. The 3<sup>rd</sup> semester shall also include a in-school project mentored by AU faculty using the advanced facilities in the AU departments related to VLSI Design & Applications. The 4<sup>th</sup> semester may be a 20 to 24-week Industry Internship to be arranged by AU for the students whom a work full-time to gain hands-on experience & learning at the semiconductor industry facilities. On successful completion of the course work and internship at AU, the AU credits earned shall be transferred to them to graduate with a M.Tech degree in VLSI Design of MITS/JNTUA.

The following are the major facilities with regard to the electronics design and manufacturing focused curriculum of the VLSI degree programme that AU shall provide access during their in-school project to the students from MITS:


be final and binding on the parties. The language of arbitration shall be English. The common cost of arbitration proceeding shall initially be borne equally by the parties. Any other costs or expenses incurred by a party in relation to the arbitration proceedings shall ultimately be borne by the party as the arbitrator may decide.

**IN WITNESS WHEREOF PARTIES HERE TO HAVE ENTERED INTO THIS AGREEMENT EFFECTIVE AS ON THE DATE AND YEAR FIRST WRITTEN ABOVE.**

**For Madanapalle Institute  
of Technology & Science**

  
\_\_\_\_\_  
**Dr. C. Yuvaraj** Principal  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE

Witness

  
\_\_\_\_\_  
07/07/2023

**Prof. Sremmant Basu**  
Dean Admin, International Relations &  
HoD- Management Studies

**Madanapalle Institute of Technology  
& Science**

**Madanapalle, 517 325, Andhra Pradesh  
India**

Official Seal



**For ASIA UNIVERSITY**

  
\_\_\_\_\_  
**Dr. Ching-Hsien Hsu**  
Dean of College of Information  
and Electrical Engineering

Witness

  
\_\_\_\_\_  
07/07/2023

**Prof. Yinghuel Chen**  
Dean International College,  
Chair Professor in Language &  
Literature

**ASIA University**

**Taichung City, Taiwan**

Official Seal



**MEMORANDUM OF UNDERSTANDING AND ARTICULATION  
AGREEMENT FOR INTERNATIONAL EDUCATIONAL PROGRAM**

**Between**

**BRNO UNIVERSITY OF TECHNOLOGY**

**And**

**MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE**

This agreement is made and entered between the Brno University of Technology located at Antonínska 1, Brno, Czech Republic, and Madanapalle Institute of Technology and Science, located at 14, Kadiri Road, Angallu (Village), Madanapalle-517325, Annamayya District, Andhra Pradesh, India collectively referred herein as "the Parties", to establish Joint Educational programs as envisaged in the MoU signed between parties dated on 19<sup>th</sup> Nov 2019.

Whereas, this Agreement is the basis on which individual Schools / Faculties and Departments interested in cooperation will conclude bilateral agreements.

Parties declare their intention to extend cooperation among other Faculties and Departments on the basis of individual bilateral agreements or amendments to this agreement.

Now, therefore for and in consideration of the mutual promises, covenants and representations contained herein, the Parties hereby agree as follows:

**Article 1. Representations and Warranties**

- a) Brno University of Technology (BUT) represents and warrants that it is a duly organized public institution in good standing under the laws of Czech Republic; that it has the corporate authority to enter into the Agreement; and that entering into and performing the Agreement with Madanapalle Institute of Technology & Science does not violate any law, rule, or regulation governing universities operating within Czech Republic. It is represented here by Faculty of Electrical Engineering and Communication, Brno University of Technology.
- b) Madanapalle Institute of Technology and Science (MITS) represents and warrants that it is a duly organized private institution in good standing under the laws of India; that it has the corporate authority to enter into the Agreement; and that entering into and performing the Agreement with Brno University of Technology does not violate any law, rule, or regulation governing universities operating within India. It is represented by Department of Electronics & Communication, Madanapalle Institute of Technology & Science.

## **Article 2. Scope of the Agreement**

### **1. Objective of Agreement**

The primary objective of this Articulation Agreement is to establish an academic structure and framework for collaboration between BUT and MITS for the study program ("Program") whereby students will complete *all four semesters in BUT, till such time all regulatory permissions are obtained in India (As originally envisaged a one-semester Masters in the field of Electronics and Communications at MITS and three semesters of Electrical Engineering and Communication)* initially Masters in Microelectronics, and then expanding to related fields at BUT. Upon successful satisfaction of BUT and MITS graduation requirements, students will receive "Inženýr" abbreviated as "Ing." degree from BUT.

### **2. The Program:**

- A. The full Program curriculum is set forth in **Exhibit A** attached hereto and incorporated herein by reference.
- B. The Program will be subject to review after three years of the Program and, if agreed upon by both BUT and MITS, the Program will be continued, with any modifications deemed necessary by the parties. The continuation of the collaboration shall be based on assessment results from both institutions at times mutually agreed to by the parties. The Program shall also be subject to review whenever either party makes curricular changes that affect the Program, or modifies admissions criteria. Notwithstanding the foregoing, each institution has the right and responsibility to make changes to its curricula and enrollment standards to maintain its academic integrity and meet accreditation standards. Such changes, if any, will be communicated to the other institution as they occur, to the main contact persons responsible for implementing the Program specified in Section 6 of this Agreement.
- C. All students participating in the Program will complete *all four Semesters in BUT till such time all regulatory permissions are obtained in India (As originally envisaged, the first semester of their studies at MITS and subsequent three semesters studies at BUT)*.
- D. The final thesis shall be written exclusively in the English language, and they can be assigned by and defended at BUT.
- E. For students participating in the Program, BUT and MITS agree to accept the satisfactory completion of the courses outlined in Exhibit A or approved alternatives to fulfill the requirements of BUT. Any alternative courses are subject to review and approval by both parties.
- F. Students are required to have an undergraduate GPA of at least 7 (on a 10-point scale) at MITS and students should qualify the entrance examination of BUT in order to be admitted to the Program.
- G. The successful completion of study involves successful defense of the Master's thesis, including the compulsory subjects defined by both parties.

International Relations MITS are the main contact persons (each a “Program Contact”) and are designated responsible for coordinating the relevant collaborative activities. The contact information for these individuals is as follows:

<b>BUT Program Contact</b>	<b>MITS Program Contact</b>
Head of the Department of Microelectronics Assoc. Prof. Jiří Háze	Dean Administration & International Relations Dr. Sreemant Basu
Brno University of Technology (BUT)	Madnapalle Institute of Technology & Science (MITS)
Faculty of Electrical Engineering and Communication, Technická 10, Brno	MITS, Angallu Village, Kadiri Road, Madanapalle-517325
Czech Republic	Andhra Pradesh, India
Phone: + 420 541146102	Phone: +91 9100907329 / +91 9836700063
Email: haze@vutbr.cz	Email: dean-administration@mits.ac.in

The parties may change their Program Contact at any time by providing written notice. Such notice shall include the name and contact information of the successor Program Contact and be promptly provided to the other party.

7. **Outcomes:**

The success of students in the Program will be assessed annually by both institutions. The parties expect a high level of student success and will monitor this closely to ensure that student schedules and support structures facilitate that outcome.

8. **Records:**

Each institution shall keep appropriate records pertaining to the Program, its activities performed under this Agreement, and pertaining to the students registered in the Program. Each institution shall provide all students and the other party with the official transcript of records.

9. **Privacy:**

The parties recognize that they are bound to comply with all applicable privacy and confidentiality laws in their handling of the confidential and personal information and education records of students participating in the Program. The parties agree to also comply with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (General Data Protection Regulation).

10. **Additional Provisions:**

- A. Service of all notices required or permitted under this Agreement shall be sent to BUT at the address set forth in Section 6 of this Agreement and to MITS to the attention of the BUT Program Contact at the address set forth in Section 6 of this




- I. The English version of this Articulation Agreement shall be the authoritative version of the agreement for all purposes. In the event of a conflict between the English version and any translation of this Articulation Agreement, the English version shall control.
- J. If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will continue in full force and effect without being impaired or invalidated in any way.
- K. At all times during the Term of this Agreement, each party shall carry and maintain general liability insurance in amounts sufficient to cover its employees, officers, directors, and agents in the performance of their obligations arising out of this Agreement.
- L. Each party shall defend, indemnify and hold harmless the other, and each of their trustees, officers, employees, agents and volunteers from and against any and all liability, loss, expense, or claims for injury or damages arising out of, resulting from, or in connection with the performance of this Agreement, but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent acts or omissions of a party, its employees or agents.
- M. This Articulation Agreement shall be interpreted and construed according to the laws of the Czech Republic and India, without regard to its conflict of laws principles.
- N. This Articulation Agreement, together with all attached exhibits and schedules, which are incorporated by this reference, constitute the complete and final agreement of the parties pertaining to the Program. To the extent there is a conflict between the terms in this Articulation Agreement and any attached exhibits or schedules, the terms in this Articulation Agreement shall govern. This Articulation Agreement supersedes the parties' prior agreements, understandings and discussions relating to the Program. No modification of this Agreement is binding unless it is in writing and signed by BUT and MITS. The provisions of this Agreement relating to confidentiality and any other provisions which by their nature should survive termination or expiration of this Agreement, shall so survive.

*The remainder of this page has been left blank intentionally.  
Signature page follows.*

IN WITNESS WHEREOF, authorized representatives of the parties have executed this Articulation Agreement in the appropriate spaces below.


**BRNO UNIVERSITY OF TECHNOLOGY**



By:   
Assoc. Prof. Ladislav Janiček  
Rector of the Brno University of  
Technology (BUT)


Date: 8.6.2023

Approved:


By:   
Prof. Vladimír Aubrecht  
Dean of the Faculty of Electrical Engineering  
and Communication, BUT

By:   
Prof. Tomáš Kratochvíl  
Vice-dean for External Relations of the  
Faculty of Electrical Engineering  
and Communication, BUT

By:   
Assoc. Prof. Lukáš Fujeik  
Study Program Guarantor


By:   
Assoc. Prof. Jiří Háze  
Head of the Department of  
Microelectronics, BUT

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**


By:   
Dr. N. Vijaya Bhaskar Chowdary  
Secretary & Correspondent  
Secretary & Correspondent  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE 517 325

Date: \_\_\_\_\_

Approved:

By:   
Prof. C. Yuvaraj  
Principal

By:   
Prof. Sreemant Basu  
Dean-Administration & International  
Relations

By:   
Prof. P. Ramanathan  
Vice-Principal, Academics  
MITS Program Coordinator

By:   
Dr. S. Rajasekaran  
Head of the Department of Electronics  
& Communication Engineering, MITS



**MEMORANDUM OF UNDERSTANDING**  
between  
**MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE**  
and  
**CZECH TECHNICAL UNIVERSITY in PRAGUE,**  
Faculty of Electrical Engineering

This agreement is made and entered into in *December 2022*, between Madanapalle Institute of Technology and Science, located at 14, Kadiri Road, Angalhu (Village), Madanapalle-517325, Annamayya District, Andhra Pradesh, India and Faculty of Electrical Engineering of Czech Technical University located in Prague, Czech Republic, collectively referred herein as "the Parties", to express common interest to establish a long-term bilateral cooperation,

whereas, this Agreement is the basis on which individual Schools / Faculties and Departments interested in cooperation will conclude bilateral agreements,

now, therefore for and in consideration of the mutual promises, covenants and representations contained herein, the Parties hereby agree as follows:

**Article 1. Representations and Warranties**

- a) Madanapalle Institute of Technology and Science represents and warrants that is a duly organized private institution in good standing under the laws of India; that it has the corporate authority to enter into the Agreement; and that entering into and performing the Agreement with Czech Technical University does not violate any law, rule, or regulation governing universities operating within India.
- b) Czech Technical University represents and warrants that it is a duly organized public institution in good standing under the laws of Czech Republic; that it has the corporate authority to enter into the Agreement; and that entering into and performing the Agreement with Madanapalle Institute of Technology and Science does not violate any law, rule, or regulation governing universities operating within Czech Republic.

**Article 2. Scope of the Agreement**

On the basis of friendship, the Parties wish to cooperate and support mutual activities in the following fields:

- a) Education – to develop study programs and exchange educational experience;
- b) Research – to establish joint research projects and research programs,
- c) Social and Cultural – to strengthen and to develop social and cultural contacts and understanding of national cultures of the Parties;
- d) Exchange of Students, Academic Staff and Scientists – to support mobility of students and teachers, study and lecture visits.

**Article 3. Finance**

- a) This Agreement does not give rise to any financial obligation.
- b) The Parties will extend to each other the most favorable treatment.

#### Article 4. Term of the Agreement

This Agreement will become effective from date of the last signature by the representatives of the Parties for a period of two years.

The expiration of this Agreement shall have no impact on the full completion of the cooperation actions entered during its term of validity.

After the expiration of the agreement and the final evaluation of the cooperation activities, a new agreement may be established and subjected to the approval procedures in force.

#### Article 5. Notices and Contacts

- a) Any notices shall be properly delivered by registered mail or an express delivery service to:

Principal  
Madanapalle Institute of Technology and Sciences  
14 Kadiri Road  
Angallu (Village)  
Madanapalle -517325  
India

Dean  
Faculty of Electrical Engineering  
Czech Technical University  
Technická 2  
166 27 Prague 6 - Dejvice  
Czech Republic

- b) Each Party will appoint a contact person and will inform the other Party about it. Should there be any change in the contact person, the Party of change will inform the other Party without hesitation.

#### Article 6. Termination

This Agreement may be terminated by any of the Parties with six (6) months' advance written notice. However, no termination may take place prior to the end of the academic year or prior to the conclusion of the cooperation activities underway.

#### Article 6. Amendments

All amendments will be made in writing and signed by both Parties and shall be subjected to an approval procedure identical to that implemented for the establishment of this Agreement

#### Article 7. Miscellaneous

This Agreement is prepared in English language and signed in four prints; each party will receive two of them.

In witness thereof, each of the undersigned has executed this Agreement on his/her free will.

By   
Vice President  
Prof. Vladimír Kutish, Ph.D., Dr.Sc.

By   
Dean  
Prof. Mgr. Petr Páta, Ph.D.

Date: 05/12/2022

Date: 09-12-2022

**AGREEMENT FOR ACADEMIC EXCHANGE**  
Between  
Faculty of Software and Information Science,  
Iwate Prefectural University, Japan  
And  
Madanapalle Institute of Technology & Science, India

Faculty of Software and Information Science, Iwate Prefectural University, Japan and Madanapalle Institute of Technology & Science, India conclude this agreement for the purpose of deepening friendships and of extending cooperation in education and research at both schools.

Article 1. The two schools form this cooperation for the purposes of developing international educational opportunities for students and for the promotion of research activities on the part of faculty members.

Article 2. This cooperation relates to the following activities, and the details of its implementation shall be discussed and mutually agreed by the two schools.

- 1) Exchange of students and faculty members for lecturing, studies and research.
- 2) Exchange of information and publications.
- 3) Other activities of mutual interest.

Article 3. This agreement becomes effective from the date of signatures by the Deans of both schools and the Presidents of both Universities.

Article 4. This agreement is valid for 3 years. Its period of validity may be extended by mutual agreement. Either party may, by giving six months' advance written notice to the other party, terminate this agreement.

Article 5. This agreement can be revised by mutual consent.

A copy of the Agreement will be retained in both schools.

(Signature)

*Toyoo Takata*

Toyoo Takata

Dean, Faculty of Software and Information Science,  
Iwate Prefectural University

Date:

*May 30, 2023*

(Signature)

*Atsuto Suzuki*

Atsuto Suzuki

President

Iwate Prefectural University

Date:

*May 30, 2023*

(Signature)

*Goutam Chakraborty*  
*19 June, 2023*

Goutam Chakraborty

Dean, Global Initiative for Innovation,  
Madanapalle Institute of Technology and Science

Date:

(Signature)

*Vijaya Bhaskar Choudary*

Vijaya Bhaskar Choudary

Secretary & Correspondent President

Madanapalle Institute of Technology and Science

Date:

Secretary & Correspondent  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE 517 325



## MEMORANDUM OF UNDERSTANDING FOR STUDENT EXCHANGE



Between  
Madanapalle Institute of Technology & Science, India  
And  
University of Applied Sciences, Hagenberg, Upper Austria

This Memorandum of Understanding (MOU) is entered into by and between the Madanapalle Institute of Technology & Science, India and University of Applied Sciences, Hagenberg, Upper Austria.

- 1 The selection and acceptance of exchange students will be carried out according to the code of the host institution.
- 2 Each institution will send up to 5 students each year, and in principle the period of stay will not exceed one year.
- 3 Exchange students will be treated as "Special Research Students" at University of Applied Sciences, Hagenberg.
- 4 Exchange students must comply with the code of conduct and all other rules of the host institution.
- 5 The host institution will not collect entrance examination fees, entrance fees, or tuition.
- 6 Exchange students will be financially responsible for all personal costs, including travel expenses, accommodation expenses, living expenses, materials fees and all other education expenses, and all insurance and health coverage relevant to the exchange situation.
- 7 The host institution will provide all necessary support required for exchange students, such as visa acquisition and accommodation facilities.
- 8 Details not listed in this MOU will be established through the deliberation of both institutions if required.
- 9 This MOU becomes effective from the date of signatures by the Deans of both schools and the Presidents of both Universities.
- 10 This MOU is effective for the period of five years and can be renewed by mutual consent.

Within the effective period, this MOU may be terminated by either party provided one month written notice is given to the other party.

- 11 This MOU can be revised by mutual consent.
- 12 This MOU will automatically expire at the end of five years from the date of signature. However, students studying at either institution at the time of expiration can continue until the end of their originally planned period of study.

A copy of this MOU written in English will be retained in both schools.

Dean, Global Initiative for Innovation,  
Madanapalle Institute of Technology and  
Science, India

Dean, University of Applied Sciences,  
Hagenberg, Upper Austria.



*[Handwritten Signature]*  
26<sup>th</sup> May, 2023

Signature \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Secretary & Correspondent,  
Madanapalle Institute of Technology and  
Science, India

Vice-President, University of Applied  
Sciences, Hagenberg, Upper Austria

*[Handwritten Signature]*

*[Handwritten Signature]* 26.05.23

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Secretary & Correspondent  
Madanapalle Institute of  
Technology & Science  
MADANAPALLE 517 325

Signature \_\_\_\_\_ Date \_\_\_\_\_



**ACADEMIC EXCHANGE AGREEMENT BETWEEN  
MANDAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, ANDHRA  
PRADESH, INDIA  
AND  
NATIONAL INSTITUTE OF TECHNOLOGY, ICHINOSEKI COLLEGE, JAPAN**

Madanapalle Institute of Technology & Science, Andhra Pradesh, India and National Institute of Technology, Ichinoseki College, Japan hereby conclude this agreement to promote friendship and academic exchange between the two institutions.

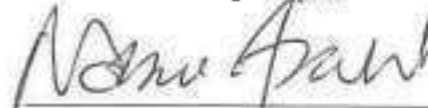
1. Each institution will make an effort to promote and develop cooperation in the following activities on the basis of equality and reciprocity
  - (1) Exchange of students
  - (2) Exchange of teaching staffs
  - (3) Joint Research
2. Specific details on the development and implementation of particular activities noted above shall be negotiated and agreed between both institutions.
3. Sending institution owes financial responsibility for the activities noted above.
4. This agreement shall come into effect on the date of the signatures by the representatives of the two institution and valid for a period of five years. The validity of the agreement may be extended after mutual consultation. This agreement may be terminated by either institution at any time by providing the other institution with 90 days' notice (in writing) of the intent to terminate.
5. This agreement will be revised or amended after mutual consultation between two institutions.
6. This agreement is made in duplicate in Japanese and English. Two of them have equal validity.

Dr. C. Yuvaraj  
Principal  
Madanapalle Institute of Technology  
& Science, Andhra Pradesh, India

  
Signature

19/05/2023  
Date

Nobuo ARAKI  
President  
National Institute of Technology,  
Ichinoseki College, Japan

  
Signature

May 19, 2023.  
Date

Principal  
Madanapalle Institute of  
Technology & Science  
MANDANAPALLE

