Echo NewsLetter

MITS
DEPARTMENT OF CST

ACHIVEMENTS · PUBLICATIONS

2019-2020

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Learning never exhausts the mind

2019

About MITS

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 - Anantapur Highway (NH-205) near Angallu, about 10km 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. (U.S.A), the then President and Dr. N. Vijaya Bhaskar Choudary, Ph.D., Secretary & Correspondent of the Academy.

MITS is governed by a progressive management that never rests on laurels and has been striving conscientiously to develop it as one of the best centers of Academic Excellence in India. The Institution's profile is firmly based on strategies and action plans that match changing demands of the nation and the students fraternity. MITS enjoys constant support and patronage of NRI's with distinguished academic traditions and vast experience in Engineering & Technology.

Institute Vision

To become a globally recognized research and academic institution and thereby contribute to technological and socio-economic development of the nation.

Institute Mission

To foster a culture of excellence in research, innovation, entrepreneurship, rational thinking, and civility by providing necessary resources for generation, dissemination and utilization of knowledge and in the process create an ambience for practice-based learning to the youth for success in their careers.

About us

The Department of Computer Science & Technology (CST) was established in the year 2018 and plays a vital role in producing value-based professionals to cater to the ever-challenging needs of technical excellence in the emerging areas of CST. The department offers one UG program with an intake of 60 students and the intake was enhanced to 180 seats in the year 2019. Department has adequate infrastructural facilities required for imparting high-quality education and the department is fully structured to meet the contemporary needs of the industry. Imparting high quality education is supported by well qualified and experienced faculty members with rich academic and industry exposure, who have pursued Masters/Ph.D degree from prestigious institutions like NITs, IITs, and Central Universities within India and abroad. Seminars, Workshops, and Technical Symposia are conducted in the department to keep faculty and students updated with latest developments in various technologies.

Department Vision

To bring forth globally competent engineers with societal consciousness, who thrive in academics and research in Computer Science and Technology.

Department Mission

M1:   To deliver technical education of the highest quality by improving the curriculum and using effective pedagogical techniques by qualified faculty.

M2:   To foster interaction between Industry and academia, to improve students' abilities in research, innovation, and entrepreneurship.

M3:   To prepare the students to become professionally competent and intellectually adept by imparting required Skills to mitigate the societal problems.

Program Outcomes (POs)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Educational Objectives (PEOs)

PEO1: Graduates will have successful career by contributing for innovation of new technologies and systems in the key domains of Computer Science & Technology.

PEO2: Graduates will be able to perform technical/ administrative roles in information technology industry / R&D sectors and pursue higher education in reputed institutions.

PEO3: Graduates will be ethically and socially responsible towards the societal development and opting a career as an entrepreneur with moral values in various domains of Computer Science & Technology.

MESSAGE FROM THE HEAD OF THE DEPARTMENT

Prof. Dr. M.Sreedevi HoD,
Dept of CST
MITS

A warm greeting to all!!

It is my pleasure to announce the release of the 2019- 2020 issue of the newsletter by the Department of Computer Science & Technology, MITS. This newsletter provides a platform to discuss the highlights of the events organized and those upcoming in shortly. The current technological revolution has made the world a smaller place. With technology getting integrated into the fabric of every individual's life, the world has become a more connected and digitized place. The Department has successfully organized many webinars/events online under the club-committee umbrella to showcase students' talent and benefit from them. Career counselling sessions are being successfully held for admission aspirants online. Department of Computer Science & Technology can be reached through social media. I wish the best of luck to the students and thank my colleagues to bring laurels to the department.

EVENTS ORGANIZED

(Webinars, Seminars, Guest Lectures, Workshops, FDP's, Awareness Programmes)

1. A THREE DAYS' WORKSHOP ON PROGRAMMING SKILL ENHANCEMENT IN C PROGRAMMING (PHASE I) SPONSORED BY TEQIP-II,MITS ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY 18/10/2019 TO 20/10/2019.

The three days' workshop was started at 09:30AM. The webinar was initiated by Dr. K. Dinesh, Senior Assistant Professor, CST Department. The Resource person Ms. Anushya Sundarrajan was introduced by Dr. M. Sreedevi, Professor & HoD of CST Department.

Department of Computer Science & Technology in collaboration with TEQIP-II organized three days' workshop on "Programming Skill Enhancement in C Programming" on 18/10/2019 to 20/10/2019 and students to understand the C programming basics and its different types of datatypes.

2. A THREE DAYS' WORKSHOP ON HACKATHON ON ARTIFICIAL INTELLIGENCE AND DEEP LEARNING ORGANIZED BY ORGANIZED BY CSE & CST 03.11.2019 TO 05.11.2019.

3. A WORKSHOP ON DATA SCIENCE USING PYTHON FOR INTERNAL STUDENTS IN COLLABORATION WITH BENNET UNIVERSITY UNDER LEADINGINDIA.AI PROGRAM. ORGANIZED BY ORGANIZED BY CST 07.01.2020 TO 08.01.2020.

4. A THREE DAYS' WORKSHOP ON PROGRAMMING SKILL ENHANCEMENT IN C PROGRAMMING (PHASE II) SPONSORED BY TEQIP-II, MITS ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY 08.01.2020 TO 10.01.2020.

5. A 5 DAYS WORKSHOP ON ETHICAL HACKING AND CYBER SECURITY ORGANIZED BY CSE AND CST 28.01.2020 TO 01.02.2020.

6. A THREE DAYS WORKSHOP ON PYTHON PROGRAMMING FOR INFYTQ SUPPORTED BY COMPUTER SOCIETY OF INDIA(CSI) ORGANIZED BY CST 13.02.2020 TO 15.02.2020.

Faculty Research Publications

1. Venkatraman, S., Surendiran, B. Adaptive hybrid intrusion detection system for crowd sourced multimedia internet of things systems. Multimed Tools Appl 79, 3993–4010 (2020). https:// doi.org/10.1007/s11042-019-7495-6

2. Venkatraman, S., Surendiran, B. & Arun Raj Kumar, P. Spam e-mail classification for the Internet of Things environment using semantic similarity approach. J Supercomput 76, 756–776 (2020). https://doi.org/10.1007/s11227-019-02913-7

3. Venkatraman, S., Surendiran, B. & Arun Raj Kumar, P. Hybrid Network Intrusion Detection System for Smart Environments Based on Internet of Things. The Computer Journal, Volume 62, Issue 12, December 2019, Pages 1822–1839, https: //doi.org /10.1093/comjnl/bxz082

4. Satyanarayana Murthy Teki,Balaji Banothu ,Mohan Krishna Varma . An Un-realized Algorithm for Effective Privacy Preservation Using Classification and Regression Trees. Revue d'Intelligence Artificielle, ISSN: 0992-499X (print), 1958-5748 (online) ,30 October 2019, Pages 313-319, https: //doi.org/ 10.18280/ ria.330408

5. Satyanarayana Murthy Teki, Balaji Banothu ,Mohan Krishna Varma .Brain Tumour Segmentation Using U-net Based Adversarial Networks. RTraitement du Signal ISSN: 0765-0019 (print), 1958-5608 (online) , October 2019, Pages 353-359, https:// doi.org/ 10.18280/ts.360408

Faculty Paper Presentation in Conferences

1. Bopche, G.S., Rai, G.N., Ramchandra Reddy, B., Mehtre, B.M. (2019). Differential Attack Graph-Based Approach for Assessing Change in the Network Attack Surface. In: Garg, D., Kumar, N., Shyamasundar, R. (eds) Information Systems Security. ICISS 2019. Lecture Notes in Computer Science(), vol 11952. Springer, Cham. https://doi.org/10.1007/978-3-030-36945-3_18

Participation Details of Students in different events Organized by other institute Within the state - Assessment Year 2019 - 2020

S No	Roll Number	Name of the Student	Name of the Event	Organized by	Date
1.	18691A2860	M Vishal	Career Advice and Improvement	Chalapathi Institute of Technology, Mothadaka, Andhra Pradesh.	18.05.2020
2.	18691A2839	M Roopa	Career Advice and Improvement	Chalapathi Institute of Technology, Mothadaka, Andhra Pradesh.	18.05.2020
3.	18691A2811	B Hemanth Thanusha	Career Advice and Improvement	Chalapathi Institute of Technology, Mothadaka, Andhra Pradesh.	18.05.2020
4.	18691A2820	Y Lokesh	Career Advice and Improvement	Chalapathi Institute of Technology, Mothadaka, Andhra Pradesh.	18.05.2020
5.	18691A2849	P Sree Bhavana	Career Advice and Improvement	Chalapathi Institute of Technology, Mothadaka, Andhra Pradesh.	18.05.2020
6.	18691A2840	P M Sadiq Khan	Career Advice and Improvement	Chalapathi Institute of Technology, Mothadaka, Andhra Pradesh.	18.05.2020
7.	18691A2854	P Tarun	Career Advice and Improvement	Chalapathi Institute of Technology, Mothadaka, Andhra Pradesh.	18.05.2020

Participation Details of Students in different events Organized by other institute Outside the state Assessment Year 2019 – 2020

S No	Roll Number	Name of the Student	Name of the Event	Organized by	Date
1.	18691A2853	K Swetha	One Day Hands on training on MATLAB	Coimbatore Institute of Technology along with MHRD, Tamilnadu	26.05.2020
2.	18691A2852	B Sunayana	One Day Hands on training on MATLAB	Coimbatore Institute of Technology along with MHRD, Tamilnadu	26.05.2020
3.	18691A2837	D Reddy Soumya	One Day Hands on training on MATLAB	Coimbatore Institute of Technology along with MHRD, Tamilnadu	26.05.2020
4.	18691A2825	D Naga Surekha	One Day Hands on training on MATLAB	Coimbatore Institute of Technology along with MHRD, Tamilnadu	26.05.2020
5.	18691A2822	R Mohammad Naeem	One Day Hands on training on MATLAB	Coimbatore Institute of Technology along with MHRD, Tamilnadu	26.05.2020

6.	18691A2844	B Sailaja	One Day Hands on training on MATLAB	Coimbatore Institute of Technology along with MHRD, Tamilnadu	26.05.2020
7.	18691A2807	N Chandana	One Day Hands on training on MATLAB	Coimbatore Institute of Technology along with MHRD, Tamilnadu	26.05.2020
8.	18691A2843	G Saiesha	Webinar on Application of Space Technology in our Day to Day Life	Sree Venkateswaraa College of Technology, Tamilnadu	19.05.2020
9.	18691A2857	M Thoyaz kumar	Webinar on Application of Space Technology	Sree Venkateswaraa College of Technology, Tamilnadu	19.05.2020
10.	18691A2836	G.Purna Manikanta	Webinar on Application of Space Technology in our Day to Day Life	Sree Venkateswaraa College of Technology, Tamilnadu	19.05.2020
11.	18691A2810	T.Harsha Vardan Reddy	Webinar on Application of Space Technology	Sree Venkateswaraa College of Technology, Tamilnadu	19.05.2020
12.	18691A2824	B Mounika	Webinar on Application Space Technology	Sree Venkateswaraa College of Technology, Tamilnadu	19.05.2020
13.	18691A2835	P Pravallika	Webinar on Application of Space Technology in our Day to Day Life	Sree Venkateswaraa College of Technology, Tamilnadu	19.05.2020
14.	18691A2802	K Akshitha	Webinar on Application of Space Technology	Sree Venkateswaraa College of Technology, Tamilnadu	19.05.2020