PEER TEAM REPORT ON
Institutional Accreditation of
Madanapalle Institute of Technology & Science, Post Box No 14 Kadiri Road, Angallu, Madanapalle- 517325, Chitoor District, AP

Section I: GENERAL	Information
1.1 Name & Address of the Institution:	Madanapalle Institute of Technology & Science, Post Box No 14 Kadiri Road, Angallu, Madanapalle- 517325, Chitoor District, AP
1.2 Year of Establishment:	1998
1.3 Current Academic Activities at the Institution (Numbers):	
• Faculties/ Schools:	Nil
• Departments:	CE /CSE /EEE /ECE /ME /MCA /MBA /Basic Science Departments
• Programs/ Courses offered:	UG:05 ; PG: 09, Ph.D.
• Permanent Faculty Members:	26 Prof, 54 Assos Prof., 248 Assis Prof (Male:272 + Female: 56) Total = 328
• Permanent Support Staff:	(Male:183 + Female: 26): Total = 209
• Students:	UG: 2663 BOYS,1031 GIRL:TOTAL = 3694 PG: BOYS, 407 GIRLS ;256 TOTAL =663 PhD: BOYS,20 GIRL09 :TOTAL = 29
1.4 Three major features in the institutional Context (As perceived by the Peer Team):	➢ R&D Centre, Incubation centre and Entrepreneur Cell. ➢ Funded Research Projects ➢ Teaching three foreign languages ➢ One subject taught through MOOCs
1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	29th to 31st Dec., 2016 (1st Cycle)
1.6 Composition of the Peer Team which undertook the on- site visit:	
Chairperson	Prof. I K Bhat
Member Co-ordinator	Prof. Seema Pradip Joshi
Member	Prof. H.C. Nagaraj
NAAC Officer:	Dr. M. S. Shyama Sundar

Section II: CRITERION WISE ANALYSIS	• Observations (Strengths and/or Weaknesses) on Key-Aspects
1.Curriculum Aspects	
1.1 Curriculum Design and Development	• More or less JNTUA syllabi followed • IIT Hyderabad and BITS Pilani consulted for Curriculum Development under autonomous courses • Very Few Value-added courses provided to students • Less courses are developed despite Skill Development centre being developed. • Information Technology program has been discontinued in 2013 • Cooperation required to be done with Industries for introducing state of art curriculum
1.2 Academic Flexibility:	• 70% seats are filled through centralized counseling and 30% through Management/NRI Quota on merit basis. Besides it, 20% is through lateral entry through E SET • Choice Based Credit System has yet to be introduced • No Dual degree or twining program is in place • Lateral Mobility of students not permitted • 1 UG,4 PG programs have been introduced and 1 UG and 1PG programmes stopped during last 4 years due to poor admissions
1.3 Curriculum Enrichment:	• Existing syllabi is being revised in consultation with student feedback. However, frequency of revision not mentioned • Less courses are developed specially targeting Skill Development of students. • Limited effort is made to bring industry persons for delivery of enrichment courses • Students be given more flexibility to choose courses

1.4 Feedback System:	- Feed-back from students taken regularly but not shared with stakeholders - Management meets periodically to assess the action taken on feedback. - Students of all departments in the last year, undergo on-the-job training - Formal Alumni Association recently to be established and liasoning to be improved with Alumni. - Alumni meetings held yearly but no corpus developed - Boost be given for more Alumni connect - Further analysis of feedback required to be done to make it more effective - Quality Assurance cell is established in June 2015 to monitor the quality in Teaching Learning processes

2 Teaching-Learning & Evaluation:

2.1 Student Enrolment and Profile:	- Admission process is transparent. - SC/ST/OBC category seats available to students for admission - Women candidates presently enrolled is: UG 32%; PG 32% - Though most of the students are from within the region yet some students are admitted from different geographical demography. - Special assistance provided to economically weaker but meritorious students. - Diminishing students enrolment especially in PG - Higher rank meritorious students be attracted to join the institute

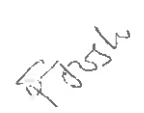|	
2.2 Catering to Student Diversity:	• College organizes orientation/induction program for freshers every year • Remedial classes, guest lectures and seminars are conducted to address the diversity. • Additional classes, counseling programs are arranged for slow learners. • Need to provide disabled friendly infrastructure like lifts and ramps in all buildings. Orders placed. • Mentors allocated set of students for three years (Some faculty leave and students do not know about new allocation of mentors)
2.3 Teaching-Learning Process:	• College prepares an academic calendar, in line with the University Calender. • e-learning resources like NPTEL etc. available in the institute and are provided to the students • Audio-Video presentation facilities available in the classrooms in every department. • Wi-Fi and internet facility available with adequate bandwidth. • In-house training programs for updation have been periodically carried out • More self study assignments and industry oriented education be provided

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2.4 Teacher Quality:	• 154 out of 328 faculty are with PhD. However, cadre ratio is yet to be maintained. • Six faculty members are having UGC-CSIR-NET, UGC-NET, and SLET etc. • Senior faculty is highly dedicated and many of them are there since inception of the institution • More faculty members be motivated to do Ph.D and attend short term courses, workshops, seminars and conferences in premier institutions. • More formalized orientation programmes be introduced among new faculty members
2.5 Evaluation Process and Reforms:	• Evaluation process is transparent and shared with stakeholders • PhD evaluation is carried out by affiliating university. • Faculty be trained to be more objective in internal assessment • Grading system has been introduced • Quality of question papers needs to be improved Use of ICT be encouraged in Examination System
2.6 Student Performance and Learning Outcomes:	• Institute has clearly stated learning outcomes for its programs. • Average Pass percentage is about 73 percent in UG. However, pass percentage in final year is above 90 percent • Efforts be made to increase the pass percentage • New Teachers need to be trained to use new technologies for improving student learning. • Students need facilitation for purchase of Laptops

3 Research, Consultancy & Extension:

3.1 Promotion of Research:	- Research Committees have been constituted with both internal and external members 19 faculty members are approved research supervisors for guiding research scholars. - Quality of Facilities in most of the laboratories is adequate. - A few major sponsored R & D Projects, from funding agencies. - Management encourages Research by providing seed money to start research - Small funding received from UGC etc for initiating Research and developmental works in some departments.
3.2 Resource Mobilization for Research:	- Institute has provision to provide financial support to faculty during study leave - A few books written with local publishers - No patents have been registered so far - Provision of seed money for faculty members is inadequate and insufficient
3.3 Research Facilities:	- Most of the Laboratories are well equipped with hardware and software. - E-Learning and Wi-Fi facilities are available - Institute has established JNTUA recognized Research Centres - For facilitating R&D, faculty is encouraged to visit other premium institutions.

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3.4 Research Publications and Awards :	• Faculty members usually present papers in conferences and only few publish in journals • More Faculty members need to be encouraged to write and present papers in reputed National and International Journals and Conferences • College yet to publish research journal of its own except in MBA department • Incentives provided for publishing papers in good journals. • Less number of papers in peer reviewed/ refreed journals • Institute has initiated best teacher and best researcher award.
3.5 Consultancy:	• College has initiated developing Industry Institute Interaction Cell for liasoning with Industries • Institute has well structured consultancy policy in place • Limited Faculty members are involved in a limited way in industry consulty projects. • College needs to enhance industrial visit for students every year. • More industry connect be established for curriculum development and delivery.
3.6 Extension Activities and Institutional Social Responsibility:	• Institute has adopted one village (Angallu) and two Zilla Parshad schools • Institution has conducted blood donation and NSS camps for social awareness. • Tree plantation programmes organized on a regular basis • Various clubs of college established in departments • Some Co-curricular and Extra-curricular activities organized by the students. • More thrust be given on new emerging technological areas and social issues

3.7 Collaboration	- Certification programs organized in some departments - About four dozen MOUs with various companies and organizations. Only half of them are active - Faculty is motivated to attend development program collaboratively in near by institutions and Industries - Career guidance program for students need to be improved. - More collaborations with premier universities within the country and abroad be initiated with a focus on R&D

4 Infrastructure and Learning Resources:

4.1 Physical Facilities:	- Institute has policy for creation and enhancement of quality infrastructure. - Rest rooms for women staff and lady students available. - Gymnasium, Cricket ground, available and activities promoted by the institute - Two (one Boys and one Girls) hostels at Angallu and Madanapalle available. The Hostel at ANGALLU has a capacity of 50 and 203 for boys and girls respectively. - The students desire to have hostel accommodation on Campus - Faculty members want residences on campus to focus on R&D - Hostel has yet to be provided with Wi-Fi connectivity. The faculty and Students feel that Proper Auditorium of at least 1200 seating capacity be constructed
4.2 Library as a Learning Resource:	- Library has an Advisory committee in place - Library with a total seating capacity of over 100 is available - Ratio of Books to students Enrolled is 1:15 - Average Library budget for last three years is about Rs. 25 lakhs - Library facility be provided to students for using the same during late hours at least till midnight during the semester and over-night during examination.

		• The students desire that more books be provided to them
4.3 IT Infrastructure		• Fully AC seminar halls with LCD projector and PA system available in most of the departments • Adequate IT Infrastructure exists in the institute • Wi-Fi facility available in whole campus • The institution is yet to avail benefit of National Mission for Education through ICT (NMEICT) • IT infrastructure be upgraded periodically on a regular basis
4.4 Maintenance of Campus Facilities:		• Well maintained campus with Surveillance CCTV cameras • RO water treatment plant with storage capacity of 3000 litres and filtration Capacity of 860 lts/hour is in place. • Rain water Harvesting in place • 19 college buses exclusively operate from various part of the city to the college. The institute has also about one and half a dozen cars. • Uninterrupted power supply provided with generators. • Adequate lighting is required to be provided in all class rooms. • During night time for safety and security electronic surveillance be provided with sufficient lighting

5 Student Support and Progression:

5.1 Student Mentoring and Support:	• Mentors appointed to keep track of academic progress of each student • Student initiated personal enhancement and development schemes in place and coordinated by Placement Cell. • College has student grievance redressal cell and other statutory bodies in place • Financial assistance received from state and central government for SC /ST students • Some Foreign students are admitted in the institute and so far no International student cell has been established. • More counseling and guidance for GATE, CAT, GRE, TOEFL,IES, Entrepreneurship etc. be provided on campus. • Motivation program needs to be conducted regularly for students and faculty.
5.2 Student Progression:	• Less students are placed through campus placement and those placed are mostly in IT sector • A few students do qualify GATE, GRE and TOEFL • Pass percentage Results: around 73% in UG and needs to be improved • Efforts be made to place graduates also
5.3 Student Participation and Activities:	• Students participate in various co-curricular and extracurricular activities at different levels both within and outside the institute • Sports day and Annual day organized every year. • Feedback from student is taken to improve teaching learning process. • Students need to participate more in outdoor activities and programmes

6. Governance, Leadership and Management:

6.1 Institutional Vision and Leadership:	• A visionary leadership with a philanthropic approach • College promotes a culture of participative management. • Students organize symposiums/ Workshops/ guest lectures with the help of faculty members. • Faculty members be motivated to publish papers in reputed Conference and Peer reviewed SCI Journal.
6.2 Strategy Development and Deployment	• Quality policy is designed and displayed at all prominent places in the institute • Feedback from students, alumni and parents are taken periodically and used for taking decisions at all levels • The activities of Industry Institutional Interaction Cell to be enhanced • Alumni to be motivated to contribute towards creation of Corpus fund. • Alumni be actively involved in training and placement
6.3 Faculty Empowerment Strategies:	• Performance appraisals in place and good performers given incentive. • To enhance quality of faculty they are sent to participate in FDPs. However, they need to be sent to good premier institutions • Strategy to encourage research activities needs attention • Skill development programmes for non-teaching also need to be improved. • New faculties are being given induction training in both domain knowledge and pedagogy in all the departments since last one year
6.4 Financial Management and Resource Mobilization:	• Audited income and expenditure statement in place. • Audit of accounts is conducted every year • Resource mobilization is taken care by the trust • Budget process needs to be more robust and adequate budget to individual departments be made

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6.5 Internal Quality Assurance System:	• Internal audit performed by senior faculty members of department. • The external experts need to be called for conducting Academic Audit. • Routine academic and administrative activities are monitored by the principal • IQAC was established on June 2015 and has yet to initiate many reforms. • More emphasis be given on making Industry ready graduates

7 Innovations and Best Practices:

7.1 Environment Consciousness:	• Special care taken for maintaining a green campus. • Energy conservation, use of renewable energy resources, water harvesting, efforts for carbon neutrality are highly appreciable. • Rain water harvesting be given adequate emphasis
7.2 Innovations:	• Use of e-Resources and One course through MOOCs is mandatory • Interdisciplinary Projects across the branches offered • Innovation be encouraged and funds are being provided to augment the effort of students and the faculty
7.3 Best Practices:	• Use of MOODLE for E_Learning • Sewage treatment Plant Facility is very effective • Faculty Enrichment Programmes • One MOOCs course per semester

Section III: OVERALL ANALYSIS	Observations (Please limit to five major ones for each and use telegraphic language) (It is not necessary to denote all the five bullets for each)
3.1 Institutional Strengths:	• Committed and Visionary Management • Autonoumous status granted by UGC, • Eco-friendly environment • Committed senior experienced and qualified faculty. • University approved R&D Centres, Incubation Centre, Entrepreneur Cell • Emphasis on teaching foreign languages • ICT used for Academic monitoring • Residential accommodation for boys and girls • Skill development centre by Siemens • Designated as TEQIP funded institution
3.2 Institutional Weaknesses:	• More funds need to be pumped to pursue interdisciplinary research • Limited Faculty sponsored for Higher Education and QIP • Less interaction with R&D Organisations • Less interaction with Alumni • Lack of consultancy work carried by the institution • Limited funded major projects. • Insufficient admissions in PG programmes. • Student performance is on lower side and needs to be improved. • Need to improve Campus Placement • Diminishing self learning culture.
3.3 Institutional Opportunities:	• Scope to introduce more value added courses • Funding schemes offered by national agencies/ government bodies. • Financial assistance by the management to attract top ranking students. • Scope to improve Research and Consultancy services for industry and R& D Organisations • Co-curricular and extra-curricular activities can be improved considerably. • Nurturing and Retaining Qualified Faculty • Introducing Student and Faculty Exchange programmes • Improving collaboration with Industry, Alumni and Research organisations • Focus on CBCS curriculum

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3.4 Institutional Challenges:	• Cope with changing economical and social scenarios. • Presence of more technical institutions (more than the demand) poses challenge in getting quality students. • Offering training programs for targeting placement • Adapting futuristic technologies • Getting socially challenging and relevant projects from industry and funding agencies • Attracting International students and • Attracting MNCs for placement

Section IV: Recommendations for Quality Enhancement of the Institution

- Recruit qualified, research experienced senior faculty in each discipline with required cadre ratio
- Insufficient admissions. Drive should be launched to increase the enrolment
- Need to improve student performance. More focused career counseling programmes to be offered to improve employability and increase Campus Placement.
- Faculty should prepare Educational module get them audited by external peers and use activity based teaching
- Strengthen the feedback mechanism from all stake holders, integrate with IQAC and its implementation accordingly
- Introduce more interdisciplinary vocational, skills and value added courses
- Strengthen alumni, industrial collaboration and consulting activities
- Encouragements for Placement training programs, Internships from industries and renowned institutes,
- Hand-holding students for appearing in GATE/CAT etc. competitive examinations
- R & D facilities and publications in peer reviewed SCI journals with good impact factor need to be enhanced both in quality and quantity
- Professional skills need to be improved among students by networking with Industries, Alumni, entrepreneurs and Research organisations.
- Communication skills for Students especially coming from Rural areas and also some faculty/staff needs to be improved.
- Advanced laboratories for PG and Research with sophisticated equipment need to be established

- College should enhance the Industry Institute linkage cell activities
- CPF needs to be introduced for faculty as well

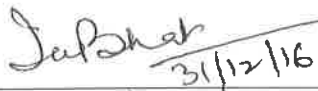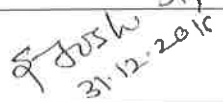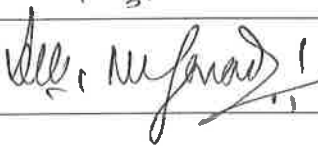*I agree with the Observations of the Peer Team as mentioned in this report.*

Signature of the Principal **of the Institution**

PRINCIPAL
Madanapalle Institute of
Technology & Science
Madanapalle I TMADANAPALLE - 517 325

Seal of the Institution

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Signatures of the Peer Team Members:

Name and Designation		Signature with date
Prof. I K Bhat	Chairperson	JaBhat 31/12/16
Prof. Seema Pradip Joshi	Member Coordinator	S Joshi 31.12.2016
Prof. H.C. Nagaraj	Member	Nagaraj 31/12/16
Dr. M S Shyamasundar	NAAC Officer Coordinator	

Place: MITS Madanapalle Chittoor   Date: 31st Dec. 2016