



MOTHER TERESA

INSTITUTE OF SCIENCE AND TECHNOLOGY

Approved by AICTE, Govt. of Telangana, Affiliated to JNTUH & SBTET, Hyderabad
Recognition under Section 2(f) & 12 (B) of the UGC Act, 1956
SANKETIKA NAGAR, KOTHURU (V), SATHUPALLY – 507303, KHAMMAM Dist., TELANGANA
Phone : 9494641251, Email ID : info@mistech.ac.in



INTERNAL ACADEMIC AUDIT

Department Name : Electrical and Electronics Engineering

Programme Name : B.Tech

Academic Year : 2019-20

I. PEO's, PO's and Curriculum

S.No	Criteria	Observations
01.	PEO's and PO's attainment	Pos and PEOs attainments are satisfactory, Cos attainments dissemination in the course handout should be self-explanatory, program-specific outcomes are to be formulated. Every subject teacher should imbibe all the Cos and remember while delivering the lectures in the class rooms.
02.	Stakeholders feedback and evidence related to curriculum design	The Mechanism of curriculum design is adopted during the academic year 17-18 and revised in 18-19 as per model curriculum formulated by AICTE, the relevant evidences have been found in order.
03.	The extent of its satisfaction with curriculum revision	The extent of curriculum revision is satisfactory. The revision in curriculum has been adapted from academic year 2018-2019 onwards
04.	Percentage of lab component -No. of new experiments designed -Hardware / Software developed or Societal problems solved.	The new experiments are performed by the student in the concerned laboratory courses and evidenced in the laboratory records.
05	Evidence of academic flexibility (Credits / Transitory regulations / Core or institutional electives)	Students are encouraged to opt for MOOCs courses.

II. Faculty information and their contribution

S.No	Criteria	Observations
01.	Teacher- student ratio	Norms Laid by JNTUH and AICTE are followed
02.	Faculty, Cadre ratio	Faculty cadre ratio needs improvement
03.	Faculty qualifications	The existing faculty possess the qualifications as per the norms of AICTE. It is also suggested that more faculty need to register and obtain Ph.Ds

04.	Faculty experience & retention	The average retention period of the faculty members in the Dept. is 5 years
05	Faculty contribution in writing:books:chapters:	Faculty need to improve involvement in writing book chapters and books. Also suggested the faculty who acquire their Ph.D. degrees to convert their own thesis into books/chapters
06	Members in Editorial boards Awards/Rewards received :	Only two faculty are found as members in the editorial board. Faculties are advised to contribute more in the research activities to full fill the accomplishment. Faculty are also advised to improve their competency in thrust areas and deliver invited talks in International conferences.
07	Faculty in professional organizations And faculty contribution:	A few faculty are contributing to accomplishing student activities under professional organizations. More faculty should involve in encouraging students to participate in activities of professional bodies.
08	Industry collaborate projects	It is evidenced that the industry collaborative projects are in pipeline through TKR-TEC Robotic center. The college should tap the software as well as quality consultancy work of GHMC, state government and other agencies.
09	Faculty as resource person in workshops/ training activities	It is suggested to improve the number of faculties participation in Seminars, resource person in the FDPs organized by the departments. It should be a blend of resource persons from premier institutions and this college.
10	National level events organized -Conferences: -Workshops/ Seminars: -FDPs: International level events organized -Conferences: -Workshops/Seminars:	No National/International Conference is organized so far. FDPs and workshops need to be conducted every semester for the newly introduced course/advanced courses.
11	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process.	04
12	Faculty interaction with outside world (BOSn,BA/Examiner for PhD evaluation / selection committee / Academic auditing /Chief guest /etc.)	The faculty interaction with the outside world does exist but limited to BOS, selection committee, and chief guest. The faculty members should serve as BOS members of other autonomous colleges in the state.

III. Teaching-Learning Process and Evaluation

S. N o	Criteria	Observations
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01	Student performance indices Attendance Exams	The student attendance and results are satisfactory.
02	Mechanism and activities for slow learners for their improvement and outcomes	Suitable mechanisms are followed to improve slow learners in the form of Remedial classes.
03	Student counseling / mentoring mechanism	It is observed that comprehensive practices are adopted for student counseling/mentoring.
04	Tutorial classes	It is observed from the records that proper assignments, doubts clarification, problem-solving and slip tests are conducting.
05	Initiatives taken for innovative mini and major projects - Training for students & faculty	Faculties are assigned to guide the students to carry out their project work. Student activities like the Technical fest are organized with events like paper presentation, coding, Debate on the latest trends.
06	Best student projects with awards	The selection criteria adopted to consider the best project is to be modified by identifying the thrust areas of implementation and is to be recorded. The number of best projects is to be increased year after year. The year wise best projects need to be show – cased for the junior students references as well as for the committee visits. A certification of appreciation/cash award may be instituted.
07	Monitoring of teaching-learning process -- Assessment of teaching process in classrooms. -- Random verification of evaluated answer papers and question paper during the semester. -- Innovative teaching methods presented if any -- Verification of course files	The adopted process is satisfactory.
08	Training programs conducted for students Guest lecturers: Seminar workshops:	Need to be conducted guest lecturers, seminars on new technologies and subjects.
09	MoUs with Industries for internship	MoUs with industries do exist at the institute level, focusing on multi-disciplinary academic activities.
10	Students feedback	It is suggested to automate the anonymous feedback collection mechanism. It will also help for critical analysis with the generation of different kinds of reports.
11	Feedback follow-up action	The follow-up action procedures need to be documented for the weak faculty members. The improvement in the ratings of each teacher in the successive years need to be maintained.
12	Scope for Self-learning Certificate courses Online courses	e-Resources at central library center do exist for self-learning/Certificate courses/Online courses. For blended learning these resources should be utilized.
13	The differential requirements of student population Male :149	

	Female:76 Cut-off rank OC: 46903 BC: 70072 SC: 82676 ST: 81976 PH: nil Range of CGPA & % of students 10-8 CGPA: 02 7 CGPA:33 6 CGPA: 5 CGPA: No. & % age of failures: 66, 28.94% Success rate as per NBA guidelines: 68.08	
14	Placements (%): Industries / organizations:	101/171 = 59%
15	Higher Studies (%): Institutions:	10
16	Activities of students in professional bodies: Awards in co-curricular activities:	01

IV. Research, Consultancy and Extension

S.No	Criteria	Observations
01.	Faculty publications in journals: Peer reviewed Journals: Thomson Reuters Impact factor Journals: S-index: h-index:	10 05 06 01 01
02.	Publications in conferences: - National - International	National: 02 International: 0
03.	Percentage of faculty contributing in Research publications: Books: Chapters:	5 2 3
04.	PhDs – Registered Submitted: Awarded:	4 1 1
05	PhDs guiding / guided	07
06	Funded R&D projects and consultancy Work Applied: Ongoing: Completed:	12 08 02 02
07	Faculty intellectual property rights	02
08	In-house R&D grants & projects and their outcomes	02
09	New research facilities/ laboratory facilities provided	Big Data Analytics Laboratory, AI & ML Lab

10	MOU's with industries/ R&D/ Premier Institutes	Exists at Institute Level. These MoUs should be further enriched as college is located in Hyderabad City.
11	Research centers of excellence established: Outcome in research centers:	Advised CSE dept to apply for the Research Center Under JNTUH
12	Skill development centers established outcome:	Only one/two-day activities are evidenced as skill development for students also actively registered, with TASK. Advised to apply for the Resource center under Dendayal Upadhaya Gramana Kalyan Yojana (DDU-GKy)
13	Faculty involved in research and Consultancy	The faculty are contributing towards Consultancy projects, and also advised to take Maintenance of developed software, for longer life of the developed products.

V. Infrastructure and Learning Resources

S.No	Criteria	Observations
01.	Adequacy of infrastructural facilities to improve the teaching learning process Class rooms: Laboratories: ICT class rooms / e- class rooms: Seminar halls: Syndicate rooms Faculty rooms	Yes, 04 01 With Training and Placement office 05
02.	Internet facilities for faculty & Students:	100 MBPS for entire campus.
03.	Technical manpower support	Sufficiently available
04.	Modern / new equipment added in Laboratories	The relevant software is available to perform Big Data Analytics, AI & ML labs
05	Details of computing facilities and Improvement	Adequate Computing facilities available.
06	Dept. Newsletter / magazine	Exists, publishes twice in a semester
07	Department level library resources with Details	Yes, 536 volumes with 100 titles.

V. Infrastructure and Learning Resources

S.No	Criteria	Observations
01.	Bridge courses: Add-on courses:	Yes, available for students admitted under the LE scheme directly in the III semesters of the course. Yes, certain courses are taken up by TASK
02.	Student publications: Student prizes: Scholarships: Dept. student clubs:	03(M.Tech) 01 10 01

03.	Details of coaching provided for GATE/GREI any other competitive exams	CRT module and training available for interested and eligible students.
04.	Industrial visits and internships	Yes, students have visited the Infosys campus through TASK.

Overall Performance Remarks:

Faculty retention rate is satisfactory, however it needs to be further strengthened. The dept. should initiate for setting – up a research centers which in turn helps to create research culture which will motivate the faculty who are yet to register for their PhDs. The institute has set up a software development center and doing a small scale consultancy in the form of developing software products for a few neighboring organizations. It is an encouraging trend in the autonomous colleges. The institute should also take up post deployment support on consultancy basis. SDC activities should grow year-after-year.

A standard template (style-life) should be specified for both UG and PG projects reports.

It is advised to conduct weekly meetings with reaching faculty of the department to review the progress achieved and for the identification of the short term and long-term goals.

A complete echo-system is to be built wherein all the faculty and other stake-holders take complete ownership of the department and college.

Name of the Evaluator/Auditor: P. Mareeswara Rao

Signature

Designation: Assoc. Prof

Department: CSE

Name of College/University: MLST, Sathupally

MOTHER TERESA INSTITUTE OF
SCIENCE & TECHNOLOGY
Sanketika Nagar, Kothuru, Sathupally Mdl
Khammam Dist. T.S. PIN - 507 303.