

7.3 – Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Industry Ready Activities

MGM's College of Engineering and Technology is an Institute of opportunities and has trust with excellence in academics. Institute's focus has been on making the students 'Industry-Ready'. Students coming from varied background lack skills as required by the Industry. Curriculum of the University does not meet these requirements. The students from rural background also lack in the communication skills. The students also need training in soft skills and Aptitude Tests. To bridge the gap between Industry and Academia, particularly when Curriculum of the University does not completely address the requirements of the Industry and Internship in the Industry is not mandatory; our Institute has devised the activities which make the students Industry-ready.

1. Departmental and Institute Slots

To meet requirements of additional activities, Institute has provided slots for Institute level and Departmental level activities. Each Department including First Year plan various activities during Institute as well as Departmental slots. These are well defined in the Departmental Activity Calendar announced before commencement of the semester and also explained during Orientation Programme. Innovation and Creativity Cell activities include involving the First Year students in developing innovative ideas by inviting proposals from them.

2. First Year – Exposure:

The students are groomed right from the first year level where the first exposure given to them is a daylong orientation program to inform them regarding various activities planned during the semester. They also get an opportunity to interact with Industry Resource Persons who also address regarding Industry requirements. Students with bent of mind for Project Based Learning are encouraged to join the project groups of the second year students. Workshops on Industry relevant topics are organized every semester.

3. Orientation Program:

Orientation programs are organized every semester not only for the First Year students, but also for the students of higher years (SE, TE and BE students) by all the Departments. College Alumni or Industry experts are called for the program as a chief guest. Resource persons invited from Industry as 'Chief guests' guide students regarding thrust areas pursued in industry and skills they look for. HoD and Faculty also present on the importance of different subjects, syllabus, experiments to be performed and various other aspects.

4. Resource Persons from Industry:

To meet requirements of additional activities, Institute has provided slots for Institute level and Departmental level activities. During these slots Industry-Ready activities are carried out. To reach out to Industry in a big way, MGM CET takes lead in inviting industry professionals as resource

persons for interaction with the students. Special training programs for the students utilizing services of such resource persons have been organized such as Internet of Things (IoT), Big Data Analytics, Mobile App Development, Cyber and Mobile Security, Smart Technology in Structural Engineering, Ethics in Industry and Evolution of Design, etc. The Institute organizes special training programs with the help of industry professionals for the students on the topics such as digital marketing, spoken tutorials on python, Industry-ready programs and courses by Microsoft IT Academy.

5. General and Technical Clubs:

Institute caters to the interests of the students through 26 club activities which deal with Innovation and Creativity, Entrepreneurship, Environment, Renewable Energy, Foreign Language, Yoga, Karate, Human Values, College Social Responsibility, etc. “Industry-Ready” activities include Aptitude Tests and Soft Skills Training through organized efforts by inviting experts. Students are encouraged to participate in Projects every semester to build confidence for solving real life problems. These activities help students to get the placement of their interest.

6. Internship:

Institute also provides internal internship facility to the students under supervision of senior faculty in addition to Internship in the Industry. This is one of the unique initiatives taken by the Institute where students are allowed to work as intern in the laboratories on specific tasks under the supervision of Faculty. This facility essentially trains the students on Project Based Learning.

7. Project Based Learning:

Through the initiative of Project Based Learning (PBL), our students worked on several projects relevant to the industry. This learning methodology inculcated the skills to work on Projects. This skill development helped the students to participate in National/State Level activities like Smart India Hackathon, SUPRA INDIA Student Formula, SAE Aero Design Challenge, AVISHKAR Research Convention etc. and come up with innovative solutions for real life problems.

8. Experts from National Institutes and Foreign Universities:

MGM CET emphasizes on preparing the students “Industry-Ready” through organized efforts of inviting eminent academician from IITs, other well-known Institutions and Foreign Universities as well as Research organizations. The interaction of these experts with students not only boosts their confidence but also get the exposure to the state-of-the-art R and D activities. Some of such eminent personalities who visited our Institute and from whom the students get inspiration are Dr. Anil Kakodkar (Former Chairman, Atomic Energy Commission), Dr. V. G. Gaikar (VC, BATU), Prof. K. C. Santosh (Chair of the Department of Computer Science, University of South Dakota), Prof. Nihal Kulratna (Univ. of Waikato, New Zealand), Dr. Vijay Kumar Mishra (IISc Bangalore), Dr. Alok Srivastava (Programme Director, ISAC, ISRO), Prof. B. N. Thorat (Director, ICT-IOC Bhubaneswar), Mr. Ashank Desai (Founder MASTEK), Dr. Kornel F. Ehmann, (Professor, Northwestern University Evanston, Illinois, USA), etc.

9. National Conferences:

MGM CET has been consciously organizing National Conferences on relevant and important themes. Several National Conferences have been organized during 2013-14 to 2019-20. Institute had organized a National Conference on “Industry 4.0” in collaboration with IEEE and CSI on 11th-12th June 2019. Two National Conferences were organized namely National Conference on “Challenges in Engineering Teaching and Research” and “Human Values in Professional Education” in June 2018. National Conference on "Energy, Water and Chemical Advanced Technologies for Green Environment" - NEWAGE 2018 was organized on 2nd October, 2018. In February 2018, MULTICON-W 2018 was organized at Thakur College of Engineering and Technology, Kandivali, Mumbai under Institute-Institute partnership.

10. Outcome:

All these efforts are reflected in increase in placements over the period 2013-14 to 2019-20. Gold Rank in AICTE-CII survey of Industry linked Technical Institutes 2018. National recognition through “Times of India Ranking” - 60th Rank in top 150 Engineering Institutes (2018) and 59th Rank in top 150 Engineering Institutes (2019).