

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

Best Practice 1: “NAARI SWASHAKTHI KARAN”

Title: Women Empowerment through quality industries training and skill development through Industry Institute Interaction Cell (IIC) (I3 C)

Objective of the Practice:

- Women Empowerment refers to making women self-reliant in the society
- The Govt. of India after Independences started giving importance for the women empowerment, In this context the Govt. of India has taken inputs from the different stake holders of the society and incorporated in the constitution. Mentioning that women should get equal opportunities along with the men in all walks of life.
- This information propagated into the society through different mediums and extensively debated. This exercise reaped fruits in the form of education for all girls / women from KG to PG reservations for women in employment and also on political system to government of India encouraged to establish private women colleges such as MIETW
- Women Empowerment is the main goal of MIETW, through enquiring education. In this process our students are encouraged to learn the various engineering aspects theoretically and practically
- The engineering course is tailored to bring more confidence into the student community by practicing hand in training.
- Various skills development programs are organized with industrial expertise.
- Our institute has memorandum of understanding with various industries to help the students to gain the technical knowledge in sync with present technologies

Practice:

1. Our I3C experts from industry practical knowledge of the students
2. Through I3C program does various activities to enhance practical knowledge of the students.
3. Various Quality Development initiatives were incorporated to augment the skill set of the students.
4. Quality development program as a part of NEP 2020 to empower engineering students to fit into the industry

5. Bringing awareness to students through extensive industrial visits to get industry exposure.
6. Summer Training: Women empowerment is also achieved not only through academics but also educating various hands-on training programs during the summer holidays. Our institute has MOU's with various organizations to impart practical Knowledge to the students as internships.
7. Certification Courses: The government of India with vision towards women empowerment various certification courses are been conducted such as NPTEL, MOCS, SWAYAM, courses, COURSE ERA through online mode and also hands on training certification courses are been conducted. The affiliated university JNTUH made a provision to have a break after third year and join the industry to gain knowledge and join again to continue the program to obtain their graduation. This enabled our women students to reinforce knowledge practically.

Evidence of success:

- ❖ This helped our students to get the awareness of industry environment and its requirements. During the college studies and fine-tune themselves in their academic studies to suit the industrial requirements.
- ❖ I3C duality of various laboratories were improved with generous support of Industry in their form of sponsoring technical activities, workshops and experts talks premium institute like IIT'S and NIT's conducting.
- ❖ Quality improvement program initiated to faculty by MIETW reflected in increase of pass percentage of the students.

4.Problems encountered & Resources:

- ❖ The soft skills of the students from rural background were found to be below average, this created difficulty in communicating to impart knowledge with greater effort.
- ❖ During the interaction with the industry personal students faced hard ship initially. our training and placement cell guided the students to overcome their problems.
- ❖ Students from rural background to impart proper knowledge various educating tools were provided such resources calls for financial requirements so it too k some time to provide their respective resources.
Initially many efforts were taken to improve the quality of education of our students to collaborate with various industries.

Best Practice 2: “GURGYAN” Title : Modern Teaching- Learning Methods

Objective:

- * To input Knowledge to students toward technology where various Teaching and learning methodologies were considered.
- * To consolidate The syllabus given by affiliated university to suit the industry requirement the faculty enhanced their technical knowledge .Through various Technologies
- * To upgrade the paraphernalia required/adopt to teach in this modern era.

Context:

- * As new technologies were emerged, and education transformation is also taken place from traditional to modern teaching learning methods.
- * Due to the complexities of the technologies faculty identified various teaching and learning methods.
- * The teaching and learning methods varies in context with knowledge imparted.
- * To match at which technology is changing the faculty has to upgrade the technical knowledge and teach the students enhanced resources.

Practices:

P1: Information communication Technology (ICT) Enabled Advance Teaching – Learning Methodology:

Faculty utilized modern Technology to learn teach such as internet ,Academic and technical information available with IIT's and NIT's , E-learning methods were used to enhance faculty knowledge . Faculty prepared E-learning information to facilitate students to utilize it for learning , ICT tools were utilized by the faculty various programmer to enclose teaching and learning capabilities of the faculty were utilized.

P2: Pedagogical Initiatives:

Information communication Technology (ICT) Enabled advance teaching – learning methodology : Faculty utilized modern Technology to learn teach such as internet ,Academic and technical information available with IIT's and NIT's , E-learning methods were used to enhance faculty knowledge . Faculty prepared E-learning information to facilitate students to utilize it for learning, ICT tools were utilized by the faculty various programmer to enclose teaching and learning capabilities of the faculty were utilized.

MIETW deploys dynamic teaching-gaining knowledge of practices to arm

college students with understanding that permits them to live in sync with a converging expert and technological landscape. As era continuously and unexpectedly evolves, a static and glued curriculum could make it hard for a student to switch instructional gaining knowledge to sensible application. MIETW's revolutionary pedagogic strategies supply instructional curriculum with relevance and rigour that prepares college students for her expert journeys. There are excellent motives for this shift through the teaching-gaining knowledge of framework. Students today, are unwilling to be passive individuals within side the alternate of understanding. Employers call for a greater holistic portfolio of competencies from graduates in search of employment, aside from technical understanding – tender competencies along with communication, leadership, teamwork and virtual understanding are the need of the hour. MIETW has lengthy believed that gaining knowledge isn't always restricted to the classroom. Armed with the venture to create problem-solvers and now no longer simply rote learners.

MIETW embarks on a pedagogical journey through:

- ❖ Focuses on the application of brain-aligned pedagogic mechanisms
- ❖ Facilitates teaching design and learning outcomes through a research and discovery mode of instruction
- ❖ Encourages students to apply general domain principles (always in operation) to specific principles (in operation during certain contextual and individual situations)
- ❖ Uses Educational Technology as an information delivery system for the entirety of involved processes

P3: Outreach Programs by ISRO-IIRS :

MIETW is an authorized as Nodal Center for distance learning from IIRS-ISRO, Dehradun Various outreach programs were conducted for the faculty and students to enhance The advanced knowledge preventing, This outreach programs were also conducted for clustered college attend MIETW for learning.

P4: Quality Initiative from MIETW:

1. Encourage faculty to attend online MOOC's program such as NPTEL. course era, etc to enhance teaching –learning skills which applied during class hours.
2. MIETW encourages faculty to indulge faculty development program (FDP), short term learning Programme (STTP), Short term courses (STC) at IIT's, NIT's, Universities to upgrade knowledge in their respective domain and transfer their knowledge gained successfully to the students.
3. Online V/S FDP's Courses: Faculty attended FDP Courses, initiated by AICTE.

Evidences of Success:

1. The knowledge gained by faculty due to pedagogical initiatives is utilized while teaching to enhance the knowledge
2. To form R&D cater to students learning requirements.
3. Quality improvement program initiated to faculty by MIETW is reflected in the increase of pass percentage of students.
4. The advance technology gained by faculty during FDP.STC , STTP and ATAL Programs is enabled to transfer the knowledge to students this in turn helped the students helped to campus placement.
5. Outreach program educated by ISRO- IIRS has enhanced the knowledge of the faculty and the students in the field of space research and remote sensing applications,
6. Latest and upgraded knowledge transferred by the faculty to students helped them to study further.

Problems Encounter & Resource Required :

- ❖ Faculty attended quality development to learn the teaching methodologies though they are busy with their regular academic activity
- ❖ MIETW conducted outreach program as collaboration with IIRS ISRO , where faculty in remote areas during COVID-19 Pandemic found the difficulty in accessing the internet facility to attend the online program
- ❖ It took some time to provide ICT facilities for the various online programs and off line programs through install the required infrastructure in the campus.
- ❖ Regular facilities of ICT and infrastructural is the major concern.