



POORNIMA
INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

National Assessment and Accreditation Council (NAAC) Annual Quality Assurance Report (AQAR) For the Session 2019-20

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

Best Practice Case 1

1. Title of the Practice:

Faculty, staff Student Reward Motivation Scheme

2. Objectives of the practice:

The scheme was introduced to make the functioning of the college in a smooth way and to improve academic performance standard of institute. This scheme encourages faculty and students to contribute in a positive and competitive environment for the betterment of academic and non-academic activities as well as to improve research mindset of students and faculty members.

3. The context:

Preparing for a global career, students in their undergraduate studies should try to acquire global competencies and innovative skills along with best academic result. PIET is always known to maintain its quality in academics and always provide a platform to all the faculty members, staff and students by which they can enhance their skills in multiple directions.

4. The Practice: In Indian higher education system, the teaching faculty members serve as an asset to the institute and their role makes it possible for the organization to lead towards the growth and development of institute in all spheres.

5. CRISP: Apart from various motivational policies, Institute has launched a research oriented policy from 2019-20 onwards, called as Consultancy Research Incentive Scheme of Poornima. In the light of changing economic scenario, government policies and priorities of Poornima, the institute considers sponsored research and industrial consultancy projects as an important means for extending benefit of scientific research work at the institute to the sponsoring agencies broadening the experience base of the Institute community and as a tool for contributing to the country's and economic growth. Therefore, as a matter of policy, the institute encourages its faculty members to undertake research and consultancy work as a measure of scientific/ technical collaboration with outside agencies.

6. Kalanidhi: It is the Annual prize distribution ceremony which is celebrated every year to felicitate give prizes to various class, branch and subject toppers who excel in field of academics and non-academics like Arun Chandra Singhi Memorial Award, Best Coding Award, Best IBM performance Award, Best sports person Award, Best Cultural Award, Best Attendance Award, Hostel Awards etc. The students are awarded with gold, silver and bronze medals respectively and certificate of appreciation. From 2019-20 onwards, Previously existing Department Day activity is merged with Kalanidhi for due motivation of students

7. Performance Incentive Scheme for Faculty Technical Staff:

Faculty members are also felicitated for excellence in academic performance shown in University result by Poornima management. Different types of Star category awards are announced e.g. One Star (), Two star () and three star () results. The faculty members are graded A/B/C by the management. The faculty members and Technical officer who are graded “A” are also eligible for incentive.

8. Incentive Policy for Awards and Recognition

To motivate the faculty members, the institution provides incentives to teachers who receive state, national and international recognition/awards, from Government body, industry and NGO in terms of salary increment, recognition by giving certificate and cash prize money every year.

9. Technical Publication Incentive Scheme

The Management of Poornima provide “Technical Publications Incentive Scheme” for faculty members. Under this scheme the publications must be related to broad academic disciplines relevant to subjects being dealt by the faculty member must include the name of Poornima with the author’s name in renowned journals of Scopus Indexed, Springer, UGC care journals etc.

10. Participation in Conference/Seminar/Workshop/Training/Symposia

Management of Poornima always allow faculty members for participation in conference/ seminar/ workshop/ trainings/ symposia etc. The guidelines are aimed to provide an opening to all Faculty Staff members to interact at international and national level.

11. Welfare Schemes:

Inspite of all such facilities, we also provide welfare schemes like Transportation, Dress Code, Subsidized Accommodation, Group Insurance Scheme, Travel Grant etc.

12. Evidences of success:

After launching the incentive scheme for awarding students and faculty members, results are witnessed as 4-5 improvement as compared to previous results and university result. This leads further to retain the faculty members and balance the quality ratio. Also in the year 2019-20 due

to launch of CRISP policy Institution has received funding of more than Rs. 20 lakh from AICTE, TEQIP etc.

13. Problems Encountered and Resources Required:

Participation of individual faculty and students would strengthen the interaction with wide spectrum of industries and academics in a prearranged manner. For implementing this practice, Institute provide funding, travelling allowances etc. to be in association with the industries.

Best Practice Case-2

1. Title of the practice

Project Oriented Labs Non syllabus Projects

2. Objectives of the practice

To Gain hands on practice: With the advent of informational society, the integration of technology and practical knowledge in education has aroused the dire need to promote it among the engineering students. The overall objective of engineering can be explored with practical experiences or hands on practice of real world and its issues related to what they create.

To Focus on Problem Solving at Society level: This is absolutely necessary as engineering is all about creating something, which has societal benefits. Unless you know the society and its challenges, how anyone can you produce something that's required?

To spotlight on Real World problem: To prepare the students to solve/work on the real world/practical/theoretical problems involving concept of science and engineering. The overall objective of engineering can be possible if engineering students are not taught practical experiences of real world and its issues related to what they create.

3. The Context- Developing and maintaining undergraduate research programs benefits students, faculty mentors, and the institute. Incorporating a research component along with projects enables students to develop independent critical thinking skills along with oral and written communication skills. The research process impacts valuable learning objectives that have lasting influence as undergraduates prepare for professional service. Every student in turn of this NSP program benefits from presentations and publications that serve to increase visibility in the scientific community. Whether projects are derived through student-generated or mentor-generated means, students benefit from completion of exposure to the hypothesis-driven scientific method.

4. The Practice

Project Oriented Lab (R D lab)

Every semester there should be at least one lab which is 100 project oriented. In this lab, the student is awarded credits only if he/she is able to commercialize his developed project. It is the

responsibility of the concerned faculty/ Course coordinator to monitor the performance of the students in that lab on weekly bases and should give regular feedback for the same.

Non Syllabus Project:

Engineering is not mean to clear exams, learn all the theories and acquired degree. There is no meaning of degree without practical applications, whatever they are learning. For that purpose we include Non Syllabus activity in the regular syllabus so that our students are able to apply practical knowledge. It is also helpful to show his/her creativity and innovative mind. Besides all that he/she also learns to team work, documentation and gather experiences which help him in final year projects.

Smart India Hackathon: After succesful participation in various events of projects exhibition, This year our students participated in Smart India Hackathon, Smart India Hackathon is a nationwide initiative aimed at proving platform for students to offer innovative solutions for pressing problems, thus including a culture of product innovation and a mind-set of problem solving. For Smart India Hackathon-2019, our students participated to solve 500 'Problem Statements' from 95 industries (e.g. Tata, Mahindra, ITC, Unilever, Indian Oil, GE Healthcare, etc.) and 18 Central Govt. ministries/agencies (ISRO, Deptt. of Atomic Energy etc.).A team of five students was selected for participation in final round of event after qualifying two internal rounds.

5. Evidences of success:

- Quality publication in Scopus Journal, Springer, UGC care journals etc.
- Project exhibition conducted every year and the best projects awarded with certificate and cash prize at KALANIDHI. More than 100 projects exhibited every year.
- Student participation: students are able to design, develop and present their skills to various events at IIT, NIT and national level.
- Even few IPR have been registered and every year 5-6 Entrepreneurs are also being evolved.

6. Problems encountered and resources required:

Developing Projects has enhanced skill of our students, but the need of Innovative Project on latest technologies and support of Industry to provide key issues need to addressed. Innovation of students have resulted many IPR to the Institution, but the gap is huge. Infrastructure demand is also a major factor with latest developing technologies and innovations day by day. The process of setting both short-term and long-term goals for a project needs to be efficient and well thought of. To maintain the unique nature of projects there will frequently be the need to employ new technology.