

**7.2.1 Describe two best practices successfully implemented by the institution as per NAAC format provided in the manual.**

### Best Practices-I

**1. Title of the Practice:** Infuse a Research Culture among Faculty and Students.

#### **2. Objectives of the Practice**

- To provide an exposure to recent research development and innovation in various engineering disciplines and fix their career goals.
- To motivate the budding engineers to forecast the present and future problems of the technical fields, development for social need and estimate optimal solutions.
- To identify the gap and bridge the industry-institute gap.
- To encourage faculty members and students to publish their research articles.

#### **3. The Context**

Exposure to the research trends will enable the faculty members and the students to provide creative, innovative and optimal solutions for the real world problems. For developing novel methods and out of the box solutions in societal context to the practical problems using multi disciplinary tools, a thorough understanding of the basic concepts is essential. There is a need for the institution to provide an ambience to meet such exacting expectations.

#### **4. Practice**

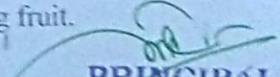
The institute management encourages all the faculty members to pursue research in their areas of specializations and publish their research articles. As the first step to provide an exposure to the recent research directions, an access is provided to the leading journals and transactions such as IEEE and ASME through digital library. Depending on the milestones achieved, the research scholars are



recognized with cash awards. The idea of conducting “in- house final year projects” creates a possibility to see the results of their solution inside the campus itself. The internal competitions and Project exhibitions provide platforms for the students to develop their research-oriented thinking. Today’s problems are multi-pronged. Therefore, they need a multi- disciplinary approach to finding solution(s). To bring objectivity into the judging of such multi-disciplinary projects are evaluated by technical experts from leading industries in that line or allied line of business. The inputs and feedback received from such experts go a long way in this institute students provide industry acceptable solutions. Mechanical Engineering departments obtained “Anna University Recognized Research Centre” status based on the Facilities available in their respective PG research labs. Through these research centres, registration of academic research works, Doctoral committee meetings, Comprehensive Viva – voce and Thesis Submission are being carried out. These research centres have also paved the way for Memorandum of Understandings with the Leading industries. All these have resulted in our student teams win laurels and recognitions in various competitions that are research based and expect the students to design thinking. Majority of these prizes are cash awards.

#### 5. Evidence of Success

The number of research publications in the indexed journals from our institution is many journal papers are published in reputed journals. Our Staff members have been awarded with the PhD Degrees through the AU recognized research centers of the Mechanical engineering departments. Many of the staff members are pursuing the research works in part time and full time mode under the supervision of our faculty members recognized as research guides by the affiliating university. These are the irrefutable evidences for the fact that the institutions efforts at creating grass root research thinking are bearing fruit.




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## 6. Problems Encountered and Resources Required

Being affiliated to a university, students from our institution are expected to follow the traditional instructional method of learning and the common exam centric approach under a tight academic schedule. Hence it becomes necessary that value added courses on the emerging trends and tools could be conducted only after college hours or during semester holidays. For the development of prototypes of the research ideas, an exposure and thorough knowledge of the modern tools along with the abstract knowledge is required. Those budding aspirants have to balance between the usage of modern tools and the regular academics.



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## Best Practices-II

### 1. Title of the Practice: Students Mentoring Scheme

#### 1. Goal of the Practice

The goal is to establish the excellent relationship between the Mentor (Faculty Advisor) and the Mentee (Students) and to help the mentees attain their aims, goals and future plans.

#### 2. The Process

The students are assigned due to ratio of faculty mentors from their first year. Mentors create a better environment and all facilities for their mentees and the mentees can approach their mentors for educational, personal guidance and knowledge enhancement.

#### 3. Impact of the Practice

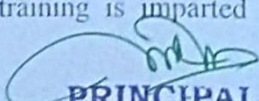
The mentors closely monitor their mentee performance and provide an ongoing support. They also provide awareness and guidance about comparative examinations and courses required for placements. A mentor encourages the students for pursuing higher studies and encourages entrepreneurship. Each and every detail regarding the student is note down in their mentor record otherwise known as Students Bio data card to maintain a hard copy for references. Frequent counseling sessions help the student in expressing their opinions and problems with ease. Counseling is done after tests and after the end semester exam results. Mentor books are updated with their results, achievements, certifications, attendance, scholarships and project details.

#### 4. Problems encountered

In the absence of a mentor for a brief period of time, the duties are handed over to another faculty and informed to the respective students.

#### 5. Resources required

To make the mentoring system effective, training is imparted to faculty on counseling and handling the students.



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