

# SIR C R REDDY COLLEGE OF ENGINEERING, ELURU

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

#### Best Practice -1

**1. Title of the Practice:**

Inculcating the spirit of research among faculty for a progressive technological growth

**2. Objectives of the Practice**

- To improve quality in the teaching-learning process
- To enhance quality in UG and PG projects
- To publish papers in refereed International/National journals and conferences
- To undertake collaborative projects and consultancy for long term interaction with the academia and industry
- To motivate faculty to pursue and obtain PhD

**3. The Context:**

Research is a never ending quest for knowledge, which may be used to promote progress for the society. Today's world is rapidly developing, giving way and scope for new research initiatives to have a better life. To keep up with the growing needs and demands has become most essential parameter. To meet such demands, continuous research and development of new products and projects has become the need of the hour. This motivated the college to strengthen RD activity that focuses on various independent domains and encourages multidisciplinary research.

**4. The Practice**

Teaching and Research must go together. With this aim, research is promoted by the college in the following ways and means:

- Sponsoring faculty for seminars/conference/workshops/Orientation courses/refresher courses, STTPs, FDPs, etc., for improvement of teaching quality.
- Financial incentives for publications in International/National journals and conferences
- Modernization of laboratories with research facilities
- Exposure to international expertise by organizing invited lectures, work-shops, seminars and conferences, etc.
- Provision of research grant from the management for enthusiastic researchers.
- Encouraging faculty to pursue PhD from premiere institutes and universities by providing necessary support.
- Providing high end computing facilities, with internet, Wi-Fi, and other facilities.
- Supporting staff are also encouraged to upgrade their skills by being deputed to relevant authorized /recognized training centers in their respective trades/fields.

## 5. Evidence of Success

Owing to the hard work done by the members of faculty, the following achievements have taken place in the organization

- No. of teachers availed the facility and obtained their Ph.D.:03
- No. of teachers availed the facility and pursuing their research: 84
- No. of national/ international publications by the faculty: 94

There is a considerable improvement in teaching learning process as the faculty is exposed to latest areas of their topic of research. Further they are able to help the faculty who are fresh to initiate research. Good number of teachers got admission into Ph.D. at various universities. Students' publications have increased and quality of student projects, both UG and PG, has been enhanced.

## 6. Problems Encountered and Resources Required

- Limited in-house research facilities for faculty pursuing PhD.
- Limited access to laboratories in premiere institutes.

### Best Practice -2

**1. Title of the Practice** - Student Mentoring System

#### 2. Goal

To minimize irregularity in attendance, reduce backlog subjects and avoid dropouts through paying attention towards each student, proper counseling, stress management, guidance in academic difficulties and career plans, and overall development.

#### 3. The Context

Many students are from disadvantaged sections of the society and this result in irregular attendance and less concentration on studies due to personal issues. This results in poor attendance and backlog subjects which lead to increase in the number of dropouts.

It is evident from the analysis of student entry characteristics that over 60 of the students fall under fee reimbursement category with 30 students joining through management quota and only 10 of the students pay college fee from parents' income. This indicates that 60 of students cannot afford to study the course unless government supports them through fee reimbursement. In addition, most of the students are from rural background, lacking required communication skills. Their inhibitions, poverty and brought up make them fear studies and force them to lag behind in their academics which result in poor attendance and number of backlog subjects. The highly competitive and complicated job market requires not only mastering the course content but also good communication skills and interpersonal skills. It has become imperative that a mentoring system is in place for the students to overcome stress, personal, domestic and academic difficulties.

#### 4. The Process

The practice creates an efficient mentoring system. Each teacher is assigned 20 students for mentoring. It is the responsibility of the faculty to observe and mentor the students in all aspects. Mentors meet the students at least once in a week to discuss various problems encountered by the students related to understanding the subjects, attendance, marks, and stress related to personal, domestic, academic, etc. The mentor collects and records all the necessary information about his/her wards. He looks after all aspects and issues of the students in the campus and guides the students to overcome difficulties. The mentor also involves parents or local guardians whenever necessary. This minimizes irregularities and makes the parents aware of the students' progress in the campus regarding attendance, marks, etc. This

leads to better discipline on campus, motivates students to actively participate in curricular and co-curricular activities and results in better performance of students.

#### **5. Evidence of Success**

Evidence of success of the practice includes better results in the examinations, increased attendance, increased participation in co- curricular activities, better discipline on campus and a warm and respectful relationship between teachers and students.

	2016-17	2017-18	2018-19	2019-20	2020-21
Dropouts	28	26	26	53	21
Detentions	40	34	23	44	31

#### **7. Problems encountered and resources required**

This practice requires dedicated faculty members who are able to carry out mentoring patiently in a friendly and non-coercive environment for the benefit of the students. To this extent, the college trains and motivates faculty members so that they can cope with the needs of the students. Faculty members find satisfaction in guiding the students in the right direction and thereby gain respect from them.