

7.2 Best practices

7.2.1 Describe at least two institutional best practices.

7.2.1.1 TITLE OF THE BEST PRACTICE: SMART SCORE

7.2.1.1.1 OBJECTIVES OF THE PRACTICE:

- To produce very good pass percentage in the Anna University Examinations.
- To produce Anna University rank holders in the Anna University examinations.
- To transform poorly performing students into successfully passed out engineers.
- To transform all students into knowledgeable in their engineering basic principles.
- To improve aptitude level of the students.
- To be confident enough to face Government and Union public service commission competitive examinations.
- To be able to understand and analyze the latest developments in engineering world.
- To be able to find out the problems/projects, by which the societal problems can be solved.

7.2.1.1.2 THE CONTEXT:

- The contextual features are
- Subject allotment of faculty based on skill matrix.
- Sending the faculty for Faculty Development Programmes.
- Preparation of teaching learning methodology
- Preparation of course file and it contains
- Time table
- Preparation lesson plan.
- Preparation of study materials
- Mind mapping
- Course Information Sheet
- Course Assessment Sheet
- Students name list
- Target list for special care
- Previous year University Question papers

- CA Test question papers
- Check list for topics coverage
- Sample test papers
- Consolidated test marks
- Preparation/Updation of lab manuals
- Calibration of Laboratory equipments
- Planning for conducting Continuous Assessment Tests
- Planning for practice/pre CA Tests/ tutorial classes
- Planning for remedial tests / retests
- Planning for special counseling duties and coaching classes before Anna University Examinations.
- Planning model theory and practical examinations

7.2.1.1.3 THE PRACTICE:

- Initially the subject allotment to faculty members will be done through skill matrix, by which, the competency of the faculty in each subject is identified. Then the subject will be allotted. Faculty of a particular course finds the course objectives and outcomes from the syllabus and start preparations.
- Faculty will go faculty development programmes further to equip himself. Faculty will find a suitable innovative teaching learning methodology such as Mission 10X , mind mapping, animation videos etc. to teach the subject.
- Faculty has to prepare lesson plan as per the time table. In all the Departments, for all the subjects, well prepared study materials are kept in. The faculty members have to update the materials with latest informations. The study materials are being distributed to all our students on the first day of every semester. Hence, it ensures that faculty members are well equipped to teach the courses, with which they have been assigned.
- In each department, the students will be categorized based on their academic performance and a target list will be prepared. So that faculty member can easily implement a suitable teaching learning mechanism to each and every student.
- As per Anna University's academic schedule, all continuous assessment tests will be conducted. Since the internal assessment marks are based on the performance of the

students in CA Tests, practice tests / pre CA tests will be conducted prior to each CA Test. Tutorial classes are conducted to all the analytical subjects. The students can prepare themselves for CA tests and they perform well. If any of the students fail in the exam/absent for the tests, then they will be given an opportunity to write remedial tests / retests respectively. This system enables students to improve their internal marks and in turn they can score good marks in University examinations. Model examinations are also being conducted for both theory and practical subjects.

- All faculty members will prepare a checklist for topic coverage of their courses. Checklist helps to identify the topics, which have been studied by the students and what need to be studied. Then the staff will guide the students to study the uncovered topics. So that, the full syllabus coverage can be achieved.
- Special coaching classes are also being conducted and Special counseling is being given through phone to both students and parents during examination period.
- Well equipped, updated and calibrated laboratory facilities are enhancing students' practical experience.

7.2.1.1.4. EVIDENCE OF SUCCESS:

Our college students had proved their potential and succeeded with University ranks such as 14thrank in 1998, 4thrank in 1999, 1st rank in 2001, 12thrank in 2003 and 7thrank in 2004 of University of Madras examinations and 3rd& 6th ranks in 2008, 19thrank in 2013, 9th, 10th, 36th& 41st ranks in 2014, 1st, 15th& 25th ranks in 2015, 5th& 8th ranks in 2016 & 10thrank in 2017 and 46th Rank in 2018 in Anna University, Chennai examinations.

our students have been placed in companies like TCS, Infosys, Accenture, Cognizant, HCL Comnet, Wipro, Rane Brake Lining Limited, Mitsuba Sical India Private Limited, S.H.Electronics, Amar Prakash Developers, CSS Corp, Axis global Automation, Sure Soft, KKM Soft, Mascons ECC, Star Ready Mix, CADD Centre, R.R. Machine Tools, Eureka Forbes, Rifluxys, Reliance Communication, Soft Square, Axis Global Automation, Aveon Infotech, StudioQ Solution, Sharp Design Technologies, Scope Technology, SNY Autotech, Deccan Services, Springs Structural Engineering, etc.

Students those who participated and won the cash prize in external college events, our management reward them by giving 50% of cash of what they won in other college events.

7.2.1.1.5. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

Every method will have some obstacles. Likewise in this method some students cannot write all the questions which are given by the faculty. The poor vocabulary in English language disturbs them in understanding the technical principles and in turn they cannot answer all the questions.

The financial back ground of the students disturbs them psychologically in concentrating their studies. Considering their poverty level, even our management allows them to pay their tuition fees in installments. However, they cannot manage the situation and struggle to overcome the academic challenges. So, the staff members have to counsel them frequently.

7.2.2.1 TITLE OF THE BEST PRACTICE: STUDENTS MENTORING SYSTEM

7.2.2.1.1. OBJECTIVES OF THE PRACTICE:

- To impart discipline.
- To increase the self-confidence of the students.
- To improve their communication skills.
- To improve exam results.
- To encourage for participation in co-curricular and extra-curricular activities
- To encourage for participation in technical contests
- To give awareness about developments in the world and importance of being updated
- To give career guidance in placement, higher studies and entrepreneurship.

7.2.2.1.2. CONTEXT:

Under this system 15-20 students are assigned to each of the faculty members in the college as counselor from their first year. Counseling Faculty create a better environment for their students in providing guidance, counseling and advice in any area of life, especially in academics as per the needs expressed by the students. The progress of the counseling is being recorded in track records of individual students. Faculties who are all working in the institution undergone faculty

development program on counseling skills, personality development & career building by helix at Yercaud.

7.2.2.1.3. PRACTICE:

The counseling faculty closely monitors their student's performance and provides an ongoing support to them. Counseling is done after every CA test and after the University exam Results. They also provide awareness and guidance about competitive examinations and courses required for placements. A counseling faculty encourages the students for pursuing higher studies and encourages entrepreneurship. Each and every detail regarding the student is noted down in their track record book to maintain a hard copy for reference. Frequent counseling sessions help the student in expressing their opinions and problems with ease. Track record books are updated with their results, achievements, certifications, attendance, scholarships and project details. We are also providing special counseling to the students during university examinations.

7.2.2.1.4. EVIDENCE OF SUCCESS:

The evidence of success is the percentage of students passed in five years from 2015 to 2020 academic result, number of students placed in the campus recruitment and number of students who got Anna university rank in last five years. After implementing the practice there is an increase in the pass percentage, the number of rank holders and placement record.

CASE STUDY Testimony of Ms.D. JAYASURYA [Reg.No: 422715106009] [Recipient of Best All Rounder Award 2015 - 2019]

I am here as one of the recipient of "Best All Rounder Award" during 2015 -2019.

About Myself:

I am not familiar about other students who had joined engineering course along with me, Because, I hope that I am not similar to every person. Since I had realistic interest on science and physics from my school days made me to close engineering course.

During First Year:

In my first year, I gave my full preference to my studies only. On that time, I attended my first college annual day function. I found many seniors receiving awards and

prizes over there. Among all the prize, I was impressed by the All-rounder Award because I found one guy receiving a big trophy. I felt so crazy on that award, it was something pleasant among all award. So I started to know the eligibility of the award, there all my staffs encouraged me and educated me about the award. My staff educated me that to accomplish the award the student should participate in all activities including studies and sports. I thought it had been a good platform to show my talents and possibilities. With the help of my staff advice. I had joined the sports team [Kho-Kho] and also we won the prize. So I decided to give importance to both studies and extracurricular activities.

During Second Year:

It was the time to lay my first step to face my challenges to best my qualities. I gone under by my mentor, he tried to pull out my best things from me. He educated me to participate in paper presentations and project expo. Parallel I also focussed on extracurricular activities. All of my staffs encouraged me to give my best in both and sports. Our Staffs helped a lot to learn coding, designing a projects.

During Third Year:

We had talked about the final year projects; we planned to design our own project in the stream of where we have more interest. Without any delay we have chosen “Embedded system” & “Communication Networks” and we prepared well on our chosen topics then we presented topic related to that. Surprisingly we won more than 5 paper presentation and 6 Project Expo. It made and boosted us to accomplish lot in curricular activities. The truth was we really loved and enjoyed to present the paper, attend the internship, workshop and so on. My mentor fixed a partner for me, so we started to face all challenges. At first we faced some struggles to attain the prize and we failed in our first attempt in both paper presentation and Project Expo. We started to overcome the failure so we learned the things to make our presentation best. At that time we attended internships related to Internet of Things and Embedded Systems. With completing the first turn in that class, I was able to benefit from a variety of things as well as refresh my memory on the things that I already know in my college studies. I was compare what I was studied in my 2nd Semester, just needed a remainder about it. So I shared my knowledge with my partner and mentor, both of them encouraged me then we planned to choose the topics for

presentation what we are learnt in depth. We learned new things, new coding by our staff members. We followed the way what our staff wants from us. Within 3rd Year, I and my class members attended more than 2 workshops and internships.

During Final Year:

I and my partner decided to do project by our own. We did our project with the help of our lab assistants and guidance of our staffs. At the final semester the real begins because it was the time to grab the award. Our staff started to show all talents in both studies and sports. Even though I won prize with my partner, I stand alone to won award. I parallel gave concentration to studies and sports. Then at 8th semester, the project work started, we went for searching many new things. Even though we don't have any resource like laptop, Wi-Fi at home, we used to spend all the evening time in our college to browse. Every Staffs encourage us and helped us a lot in our personal life and also career too. They educated us to try GATE and TANCET exams too. They offered many online classes and practical classes. Even though they gave equal preference to all students, I worked out separately to achieve the All Rounder Award. The Result of my hard work, I won the award. I nearly won 6 prizes on project expo, 4 prizes on paper presentation, 8 prizes on sports activities and 5 on other activities which include painting, Poetry and so on. The truth was all the credit goes for my staffs because they built a platform to show my talents. I really thank them for their encouragement.

Now I am working as "Network Engineer" in Quadgen Wireless Network Solutions, Bangalore. There I am designing and inspecting the radio transmitters and telephony equipment's. My next goal to get placed in BHEL Bangalore.