



MUTHAYAMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Accredited by NAAC,NBA & Affiliated to Anna University)

Rasipuram - 637 408, Namakkal Dist., Tamil Nadu



INTERNAL QUALITY ASSURANCE CELL

BEST PRACTICES

Title of the Practice I

Development of Entrepreneurial Attitude among Students

Goal

The aim of this particular practice is to provide necessary Infrastructure, Human Resources and motivation to Nurture the Entrepreneurial Attitude among the Students.

The Context

The structure of the job market has changed in recent years with Technology having slipped into almost every nook and cranny in our daily lives. With the Make in India initiative, came the rise of Start-ups, and students started to become more inclined towards starting something of their own and becoming Entrepreneurs.

The Practice

Muthayammal Engineering College has submitted its application to establish a Business Incubator with Ministry of Micro Small and Medium Enterprises (MSME), Government of India under the scheme “Support for Entrepreneurial and Managerial Development of SMEs through Incubator”. It was approved by MSME and the Business Incubator was established at Muthayammal Engineering College. Under this scheme, applications are invited from incubates to submit their ideas and the selected ideas will be funded to the tune of Rs.6.25 Lakhs.

Also, many Entrepreneurship Development Programmes are conducted every year by the officials of MSME Development Institute, Chennai, representatives from DIC, Namakkal District and Managers from leading Banks.

The Students are motivated to take part in Project Contests, Start-up Challenges and Boot-Camps to showcase their skills.

Evidence of Success

The students have submitted their ideas to the MSME Business Incubator which is awaiting funds from office of DC, MSME, New Delhi.

Our students have won **FIRST PRIZE** and Cash Award of INR 1,00,000 in the **Grand Finale** of the Government Sponsored National Level Project Contest "**SMART INDIA HACKATHON 2018**" for their project titled "**Intelligent Water Level Monitoring in Bore wells and Temperature control of Motor**" from **Ministry of Coal**.

Tamilnadu Innovations Grand Challenge (TNIGC 2017)

Our students have won **FIRST PRIZE** and cash award of INR 1,00,000 in the "**Tamilnadu Innovations Grand Challenge 2017 (TNIGC 2017)**" for their feed agitation process". This event was organized by EDII (Entrepreneurship Development and Innovation Institute, a Society established by the Govt. of Tamil Nadu) and FORGE Accelerator, Forge Factory, Kumaraguru College of Technology Tech Park, Coimbatore.

Smart India Hackathon 2017

Our students have won **SECOND PRIZE** and cash award of INR 75,000 in the Grand Finale of the Government Sponsored National Level Project Contest "**SMART INDIA HACKATHON 2017**" for their project titled "Smart Waste Container" from Ministry of Railways.

The students have took part in different project contests and Start-up challenges such as Texas Instruments Innovations Challenge, Start-up Weekend organized by Karpagam College of Engineering, etc and brought laurels to the College.

Problem Encountered and Resources Required

More awareness programs need to be organized to bring Entrepreneurial Attitude among Students. We find it really difficult to break the conventional attitude of students who want to become job seekers than job providers. Support from Government, angel Investors and Industries are the need of the hour to develop the Entrepreneurial Attitude.

Title of the Practice II

Strong Orientation Towards Research and Development

Goal

The aim of this particular practice is to provide necessary Infrastructure, Human Resources and motivation to Nurture the Research Competencies among the Faculty Members and the Students.

The Context

The College offers 06 UG and 07 PG Degree Programmes in various Engineering Disciplines. Our Institution has 5 Anna University Recognized Research Centers. It is the responsibility of Faculty Members to inculcate effective Learning Methodology to their students to understand various Engineering Concepts. To accomplish this, they need to be creative and innovative in their approach to Teaching / Learning activities and should possess Holistic Idea about the Subjects what they taught, which requires some level of Research competencies in the Teaching Faculty Members. Students from various Departments can avail the Facilities of the concern Department Research Centers to complete their Projects.

The Practice

The Institution – Industry interaction cell has been established. The Institution encourages the Faculty Members to publish the Research Papers, attending National/ International Conferences and to carry out Consultancy Work. The Faculty Members are encouraged to Publish Research articles in National/ International journals. They were sponsored to attend the National/ International Conferences in India/Abroad. Incentives are provided to those Faculty Members who are doing the Consultancy Work based on the amount and nature of work. Many MoUs have been signed between the Institution and various Industries to carry out the Research and Consultancy Activities.

Evidence of Success Faculty

The Institution has well established Research Centres to carry out Innovative Research in advanced fields of Engineering, Technology and Management. Around 700 Research papers have been published by our Faculty Members so far in refereed International and

National Journals. Also our Faculty Members have presented their research findings in more than 550 National and International Conferences. Around 1700 Technical Papers have been presented in various Conferences and Symposiums by our Students.

We have established Research Laboratories in all the PG Departments and Industry Sponsored Laboratories such as Texas Instruments (Ti) Innovations Lab, In22 Incubation Lab, Wipro Mission 10X Lab etc. The number of Ph.D. degree holders in the Institution has been increased (12 as on date) considerably. In addition, 25 Faculty Members are pursuing their Ph.D degree and actively involved in Research. The h-index value of our College is 15 from Google Scholar.

Students

- Students are constantly enthused to involve in various Research Activities
- Every year around 200 Projects have been designed by the Students apart from the Final Year Projects
- They are taking part in various Project Contests Organized by Institutions and Industries and brought laurels to our Institute
- The following Projects were sponsored by Texas Instruments and the Embedded System kits are provided to them.
 - Robot to Rescue the Lives Trapped in the Bore Wells
 - System to Safeguard/Protect the Lives near The Unmanned Level Crossing
 - Implementation of Acoustic Echo and Noise Canceller for Conference Room
- The projects selected in Wipro Mission 10X listed below
 - RFID Based Student Attendance Management System using OMAP 3530
 - FPGA based Automated Power Saving System
 - Implementation of Solar Tracking System Using OMAP-3530
- Mr.S.Ashok Kumar of the Department of Electrical and Electronics Engineering has bagged GOLD medal in the 45th All India Student Design Awards – 2014 organized by National Design and Research Forum

Problem Encountered and Resources Required

Even though we submit more R&D Project Proposals to UGC, DST, AICTE etc. we haven't received enough grants. But still Faculty Members and Students are motivated to do Projects using the Institute's Seed Money. The Accreditation by NAAC, the renewal of NBA Accreditation, 12B Status and Autonomous Status will really help us to get more grants in Future.




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