



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.
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7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Best Practice-1

1. TITLE OF THE PRACTICE:

1. - Management Information system and E-Academic Process Through Enterprise Resource Planning (**E-MIET-ERP**)

2. OBJECTIVES OF THE PRACTICE:

- To monitor the performance of the teachers and progress of the students by the Principal.
- To maintain the record of both teachers personal details and academic details of the students.
- To access the information at one point in digital form from the date of joining to the date of completion of the program in the case of students and from the date of appointment to the date of relieving in the case of teachers.

3. THE CONTEXT:

Educational institutions need to store huge volume of information about students, teachers, academic details and other related data. An ERP solution integrates the whole campus and all the branches in a common system to make the process of data management easy. A software developed by the faculty members and students of Computer Science and Engineering department of M.I.E.T. Engineering College (**E-MIET-ERP**). The software enables sharing of stored data across all departments to keep teachers, staff, and students updated on important announcements. This system provides a better control of internal and external communication in the institution continuously without any breakdown. The improved data access also boosts well-informed decision-making through strategic data analysis. ERP software can store enormous


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amount of information securely. The application has a backup system to preserve the information, which is quite impossible to have if it is stored in conventional files.

4. THE PRACTICE:

The Principal, Heads of various Departments, Teachers and Students are individually allotted with an ERP number. The details of the staff as well as students are stored in the ERP database that can be retrieved as and when required. Being an online portal, retrieval and updating of information is convenient so that every activity of the teachers and students are continually updated and monitored. Hence ERP is considered as an integral part of the academic process.

Students:

On admission, all the personal details of the student are entered in the ERP database. Attendance, Internal Marks, Assignment Marks and all the necessary academic information also entered periodically by the respective teachers. With the available information, analysis could be made on every parameter to check the performance and progress of the student. Reports with graphs/charts could be generated for mentoring purposes.

Teachers:

The personal information of the teacher are entered into the ERP database. Time table of allocated subjects along with the students database will be made accessible for the teachers so that attendance, assignment and internal marks could be entered regularly on daily basis.

Principal/HoDs:

The entire academic performance and progress could be easily monitored by the top level management. The ERP is user friendly and any faculty with the ERP number could access and generate reports based on the requirement.


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Reports:

- **Absentees Report:**

Everyday absentees report could be generated on a single click either department wise or for the entire institution to monitor regular absentees and find ways to reduce the number of absentees.

- **Test Report:**

After completion of the test, test report could be generated either subject wise or for all the subjects which can be used for planning of remedial classes to improve results in the forthcoming tests.

- **Mentor Report:**

Advisors/ Mentors/ Class Coordinators are able to generate reports of the personal details of the students in order to maintain cordial relationship with the parents with respect to the performance and progress of the students. The information stored will not only be available for the academic year alone but also for all the previous years right from the implementation of the ERP software. In addition to it, the information available are also used for various purposes such as scholarship, fees collection and placement activities.

5. EVIDENCE OF SUCCESS:

Absentees have been drastically reduced as the data available from the ERP software is much useful for careful monitoring of the students and their absence will be immediately taken to the notice of their parents. For result analysis, reports generated at any instant, allows access to the information pertaining to their performance in the case of assessment tests are very much useful for the teachers to encourage and assist their students in their academic progress and thereby increase the pass percentage of the students in the semester examination.


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ERP software is a useful tool for communicating with the parents to update the information such as their attendance percentage and internal marks in a single click. With the available information, the teachers and parents can jointly counsel the students for improvement of their performance.

6. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

Damage to the hard disk or CPU is a problem and is addressed by frequent back-ups. The software may slow down the process and so the software must be updated regularly. Delay in updating leads to ambiguity and so authenticity of data must be monitored closely.

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Best Practice-2

1. Title of The Practice: Development of Technocrats through Skill enhancement (DoTS)

2. OBJECTIVES OF THE PRACTICE:

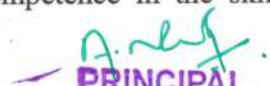
- To bring out better practical skills among young Engineering students
- To promote knowledge-based and technology-driven start-ups through mentorship, guidance, and support.
- To develop practical skills and innovative ideas among the students
- To encourage self-employment tendencies among students
- To develop technical and professional awareness among the students
- To promote first generation businessmen and industrialists
- To develop entrepreneur and managerial skills to meet out the problems in this context of the arena

3. THE CONTEXT:

Practical learning is learning by experience. The learner observes and then carries out, controls or interacts with real-life variables. It is a well-known fact that practical skills are important for every engineering student. Practical work includes experiments in laboratories, field work, case study and project work. It is a proof of their proactivity and helps open up better opportunities for employment and further studies. Practice makes a man perfect. Practical knowledge gives a different perspective of the information through personal experience.

Young students have the enormous power of doing things with great courage. The students of the present generation are more ambitious and aspire to invent new things. It is the responsibility of education system to motivate young aspirants to be the best in the practical skills.

With a distinctive vision of providing a path for young minds to follow and develop their skills, practical learning gives a different feeling of confidence and competence in the skills and


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techniques for accomplishment and victory to pursue their dreams along with a sense of direction, to shape the global economy.

4. THE PRACTICE:

The practical training courses are conducted for the students to familiarize the latest softwares and technology in their respective domain. The practical training enhances to experiential learning and practical work encourages self-learning. Practical work makes student independent and increase their confidence. Students who complete engineering education often find that when they start working, they are at a loss in spite of getting very good marks in the examination. If the engineering college integrates theory with practice, students are better prepared for jobs. Practical knowledge in advance boosts their confidence. Hence there are several benefits of practical work and at the same time it must be remembered that theoretical knowledge is also important. Practical work is application of theory and practice for best results. The students develop creative and innovative ideas/methods and give solutions to the real time problems. We also offer practical courses beyond the curriculum which includes Computer Numerical Control (CNC) training, Structural Analysis and Designing Program (STAAD Pro), Hardware and Networking, Printed Circuit Board (PCB) design, design of power converters and applications for engineering students and branding strategies for management students. Although the affiliating University framed the curriculum to conduct practical classes through online due to Covid-19 situation, we conducted only through physical mode as an option given by the University.

Every year industrial visit is arranged for the students to get awareness in the modern technology, future trends, and industrial knowledge. Students explore themselves by interacting with the industrial experts and clarifying their technical doubts and gain knowledge. Engineering students from various streams prepare the projects and present the project in Expo conducted by M.I.E.T. Engineering College in the banner of Entrepreneurship Development Centre (EDC). The students are encouraged to do in-house project by utilizing the existing laboratory facilities available in the concerned departments. An unique students Bazaar is also organized in the


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campus every year in the name of “Prentice Bazaar” to Management students by creating an opportunity to find the market to sell their products and to sharpen their entrepreneurial skills.

5. EVIDENCE OF SUCCESS:

The evidence of success of these practices is that the students have participated both in Project Expo and Students’ Bazaar and developed their technical skills. The outcome of conducting Project Expo enabled our students to develop innovative projects like Green vehicle (battery operated), small turbine for generating electricity from canals (Patent approved), device for identifying fake votes, etc. With the guidance of faculty members our students have submitted various project proposals to Tamil Nadu State Council for Science and Technology (TNSCST) and got sanction of funds for 4 projects and successfully completed the projects. The approved projects in the academic year 2019-2020 are ‘Remote operated trash skimmer for lake’ and ‘Design and fabrication of fume arrester using peanut shell biofilter for arc welding application’. The approved projects in the academic year 2018-2019 are “Self renovation of building cracks with biological action” and “Tree shifting and replantation mechanism”. The Injection molding equipment was designed and fabricated by our students for research purpose. Our students have participated in the ‘ChhatraViswarkarma’ Award-2019 a State level competition organized by AICTE- Delhi and shortlisted for higher levels for their work on “Advanced Aquaponics for adopting villages”.

6. PROBLEM ENCOUNTERED AND RESOURCES REQUIRED:

As the exhibition is organized inside our college premises the audiences are limited and only student participants of the exhibition alone participate the program. So, the scope of the exposure for students is less. Hence, it is suggested that the exhibition and other activities need to be conducted outside the college campus, which will increase the possibilities of mass audience to visit both Project Expo and Students’ Bazaar. The students get more exposure by conducting more exhibitions with the support of private industries located in nearby region, which can enhance and motivate the students by involving this kind of expo. Students get more interactions



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with the mass audience and share their views and on the other side will get more innovative ideas. Also, when the project expo is conducted beyond the college campus, there may be more chance of getting attention from private industries leading to sponsorship for our program.


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