



MCKV INSTITUTE OF ENGINEERING

Approved by AICTE & affiliated to Maulana Abul Kalam Azad University of Technology

NAAC Accredited 'A' Grade Institute

243 G.T. Road (N), Liluah, Howrah- 711204, West Bengal, India

Ph: +91 33 26549315/17 Fax +91 33 26549318 Web: www.mckvie.edu.in/

Best Practices of the Institute

Best Practice I

1. Title of the Practice

ICT based Teaching Learning Process.

2. Goal

To widen up the learning horizons of the students.

3. The Context

In university affiliated Institute teaching learning is normally bounded by prescribed syllabus which quite often fails to satisfy job market demands. It is therefore essential to equip the students with recent development in science and technology by advanced learning from eminent speakers from world renowned Institutes or Universities.

4. The Practice

ICT based teaching learning process is being practiced mainly in the following different ways:

- a. At least 2 class rooms on every dept. have been set equipped with Internet connection and audio visual facility
- b. 16 Mbps. Wi-Fi connections are provided in every wherein the campus.
- c. QEEE programmes initiated by MHRD GOI, and conducted by IIT Madras being implemented since July 2014.
- d. MCKVIE is a partner Institute of NPTEL with IIT Kharagpur since July 2016 and conducted certificate courses during summer break
- e. Library is equipped with e-books and e-journals and make it available in institute portal to ensure 24 hours availability

5. Evidence of Success

- a. Almost all students of all Departments are enthusiastically taking advantage of this ICT based learning facilities.
- b. QEEE authority recognized our institute as one of top 20 institutes all over India during 2015-16 on the basis of students attendance and performance.
- c. 454 students successfully completed NPTEL courses during 2018-19.

6. Problems Encountered and Resources Required

- a. Problem encountered in implementing full ICT based teaching learning is relating to mindset of both Faculty & students. Quite a large number of students still prefer printed books than e-books available in Institutes portal. Even Faculty members prefer Black Board teaching



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- b. A sizeable member of student could just copy information of Internet specifically in project work; as a result they would not learn seriously.
- c. All faculty & staff need to be trained to use ICT which is a different problem.
- d. Moreover, introduction of ICT based Teaching learning is very expensive. As a result resource crunch is major constraint.

7. Notes (Optional)

Any other information that may be relevant and important to the reader for adopting / implementing the Best Practice in their institution (about 150 words).

8. Contact Details

Name of the Principal: Prof.(Dr.) Buddhadeb Chattopadhyay

Name of the Institution: MCKV Institute of Engineering

City: Howrah

Pin Code: 711204

Accredited Status: Cycle I

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Best Practice II

1. Title of the Practice

One of the best practices followed by the institute is titled as Diagnostic Test of Students at the entry point.

2. Goal

This practice is devised to supplement the knowledge of the marks obtained by the students at the entry level to identify areas and topics in which a particular student is weak and what additional inputs he/she would require to cope with the engineering syllabus.

3. The Context

The institute always envisages ensuring that all students perform well academically and achieving their post college goals, securing good jobs or entering post-graduate courses according to their choices. But in actuality it was found that a sizeable number of students had a 3rd class, had failed in a number of subjects and/ or lost a year. These students generally did not attend classes regularly or some had entered with low marks. The most important factors appeared to be lack of confidence in medium of instruction and/ or failure to comprehend what is being taught in the class due to lack of basic knowledge of the subjects. In this backdrop it is envisaged to identify the particular areas or subjects in which a student is weak and requires additional coaching or remedial measures to equip him to cope with what is being taught.



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4. The Practice

The Diagnostic Test is generally conducted within first month of semester start schedule of which is notified to the student at the time of admission. The Test is conducted in Mathematics, Physics, Mechanics, English on the basis of class XII syllabus both in written and verbal communication. Those who score below 60% in a particular subject or in overall result are identified as Weak students. To address the identified weaknesses arrangements are made for Remedial classes on relevant subjects regularly. Arrangement of special caring classes on specific subjects (both domain knowledge & soft skill) to clear doubt is also being arranged. Tests are conducted to monitor the results of remedial classes.

5. Evidence of Success

As a result of the Diagnostic Tests teachers are became aware from the beginning which are the weak areas in those students and accordingly formulate their class room teaching as well as areas to be emphasized in Remedial / and doubt clearing classes. The tendency to avoid classes is minimized. Student results have also improved.

6. Problems Encountered and Resources Required

University syllabus is already heavy and consumes the regular teaching time of the faculty members. To shoulder the additional responsibility of organizing separate Remedial Classes etc. by them after the normal working hours and / or during summer and winter recess is obviously not welcoming. Additional remuneration for such additional activities would have been encouraging. But this require mobilization of additional resources which is difficult in the given condition.

7. Notes (Optional)

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Institutional Distinctiveness

Counseling And Guidance: The Institute has counseling and guidance cell available round the clock to the students who need psychological, social, personal and career counseling.

Entrepreneur Development Cell: The Institute has established an Entrepreneur Development Cell in collaboration with National Entrepreneurship Network (NEN). The objectives of the cell to motivate, educate and help students to convert their ideas into business through product development.

Swami Vivekananda Centre For Positive Thinking: The Institute has a Swami Vivekananda Centre for Positive Thinking helps students to develop morale values and positive attitude.

Innovation Centre: To encourage entrepreneurship activities of the students an Innovation Cell under CII and Institutional Entrepreneurship Development (IED) Cell has been formed under National Entrepreneurship Network (NEN).

Rotaract Club: Rotaract Club of the Institute under the parent body Rotary Club of Mahanagar has been established, in addition to this an active cell of NSS is also present here.

Technical Competition: The Technotica and Tech-Fest were organized to encourage the activities pertaining to robotics and technical competition for MCKVIE students for both within and outside the campus.