

Teaching Learning Process @TCEA

- **Introduction**

All the Departments of Techno College of Engineering Agartala follows the academic calendar of the college which is based on the Tripura University (A Central University) academic calendar. It consists of the events planned for the semester which includes internal examination, Class test, dates for theory and practical courses examination, conduction of events like Guest Lectures, Workshops, Continuous learning programs for students, Conference, Site visits, Extra and Co-curricular activities, Educational tours etc.

- i. Different course allotment is done in advance for the faculty to prepare lesson plan, proposed questions, lecture notes, power point presentations etc.
- ii. All the laboratory experiments are conducted as per the university syllabus. In addition to that, some advanced and additional experiments are also conducted to grow student's interest in the subject. Laboratory Manuals are available in the laboratory explaining the details of the experiments. Log books are maintained with all details in each laboratory.
- iii. The faculties of the department adopt various methods of teaching and learning to create best learning environment for student.
- iv. The methodologies include traditional blackboard teaching, presentations, video lecturing, and group discussion. Collaborative learning methods are used to create an environment of active, involved, exploratory learning which enhance thinking skills, builds self-esteem in students.
- v. The faculties are focused on towards outcome-based education and actively based learning in an experimental way.
- vi. LMS is used to manage all the teaching and learning process includes providing study materials, online classes etc.

The following process is followed to improve the quality of teaching and learning process:

- **Practices of Teaching Learning Process**

1. **Lesson Plan:** Lesson plan is prepared for each course in each semester considering the University syllabus and complete lecture schedule is provided to students in advance.
2. **Tutorials:** Tutorial slot is given in the lesson plan which is schedule as per university guideline which enhance the problem-solving skill among the students and to revise the previously covered topics which improves self-esteem and attitude towards learning.

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3. **Lecture Notes:** Subject teacher prepared the notes and delivered to students. Lectures are delivered by the faculty as per the syllabus. Some lectures are beyond syllabus, help to bridge the gap between syllabus and recent trends in Engineering and Technology.
4. **Assignments:** Assignments are given in a semester for each course to cover the complexities of the subject, to provide awareness and knowledge about topic also promotes self-learning.
5. **Subject Activity:** Subject activity in terms of Tests, Quiz, Puzzles, PPT presentation, chart and model making etc. is conducted in each course to build confidence and enhance the understanding of the course. Such type of activities adds interest and boost speaking skills.
6. **Additional Laboratory Experiments:** Additional and advanced laboratory experiments are conducted in laboratories to deepen, students understanding by relating theory to practice. It provides coherence towards achievement of POs.
7. **Seminar:** Seminars on course content or general topics related to new technological developments in Civil Engineering was presented by students to impart broad knowledge of new research topics and their application in modern day. It also helps them to convey their own ideas to others.
8. **Workshops:** Workshops are organized as per availability and requirement of the course. People from different industries, firms and institutions are invited for delivering the recent innovations and practices in concerned fields. Students acquire with latest trends and technologies. Students assimilate new ideas and approaches about the topic. Get opportunity to interact with experts face-to-face.
9. **Expert lectures:** Inviting eminent personalities, who have achieved some feat in science and technology to take some seminars for the students. It greatly helps them to understand the present and ongoing advancements in the technical fields. Students get exposed to additional contents and advanced technologies.
10. **Industrial Interaction:** Industrial tour is carried out once in the program and site visits as required during the academic year for each course. Students get exposed to the practical and various aspects of working environment. Industrial visits help students to know the information useful for knowledge up gradation and thus build up better academic involvement.
11. **PPTs:** Power Point Presentations are prepared by the respective course faculty for typical topics for better and easy understanding to the student.

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12. **Mini Project:** Mini project based on different course is undertaken for enhancing the knowledge.
13. **Remedial Classes:** After first Sessional evaluation, weaker students are identified and remedial classes are conducted to improve their performance. Remedial teaching provides the foundation for learning a subject in greater detail.
14. **E-learning portal (LMS):** Students have an access to the complete learning material for all the subjects at their convenience through LMS. Due to having flexibility, e-learning is an efficient way of delivering courses which promotes active and independent learning.
15. **Question Bank:** Question banks are prepared for each unit in the course based on the course objectives and considering the nature of the university question papers. The previous question papers of University are also maintained in the course files. Question banks are made available in the e- Learning portal for the students.
16. **Software courses:** Expert lectures to spread awareness about new software's are organized in each semester. Also, software training courses are made available in the department for the students.
17. **Library and Internet:** Students and faculties are provided with access for reputed e-journals and internet facility.
18. **Guardian Teacher Counselling:** Students are motivated by Guardian Teacher towards academic, curricular and extracurricular activities.