



ANNAPOORANA ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited By NAAC 'A' Grade & Accredited By NBA (Civil, CSE & EEE)

2(f) & 12(B) Status as per UGC Act 1956

ISO 9001:2015 Certified Institution

NH-47, Sankari Main Road, Periyaseerapadi, Salem-636308, Tamil Nadu.

www.aecsalem.edu.in



DEPARTMENT OF MECHANICAL ENGINEERING

Innovations by the Faculty in Teaching and Learning

Faculty members provide quality study materials to enrich students. Mode of teaching in this institute is limited to the usage of chalkless methods, but also an amalgamation of the modern technology (e.g. PowerPoint presentation, audio-visual teaching, NPTEL videos, etc.).

- Use of modern teaching aids like smart board with Internet enabled computer systems with Wi-Fi enabled smart board are usually employed in classrooms and other student learning environments.
- The course files are distributed among the students by the subject teacher well in advance of the commencement of the class. Faculty shares the study materials among the students via e-mail, websites, hand-outs, etc.
- The biggest resource for self-learning is obviously the college library. The college library not only possesses plenty of books to meet the students' syllabus-oriented needs, but it also houses numerous books by eminent national and international authors on a variety of topics which students may regularly access to sharpen and broaden their knowledge.
- There is a digital library facility in the campus and the students are encouraged to refer to journals and conference proceedings for their project works and seminars in the latest topics.
- The library also possesses a number of magazines and periodicals also related to different branches of science and technology which the students may readily access.
- The library also subscribes to a host of online and printed journals, which are also made readily available to the students.
- The library also includes a computer room with Internet access which is often used by students to access various forms of e-materials for their self-development.
- Students are encouraged to visit NPTEL lectures, browse different internet sites to increase their knowledge base about the subject. Moreover, through these activities students acquire relevant knowledge which is beyond the syllabus as Anna University curriculum.
- Faculty using with physical models and 3D models at the time of teaching - Drawing classes.
- ICT Classroom facilities are provided to students for the better understanding of concepts.
- Finite element analysis of Bar Beam truss and plate Heat transfer and Vibration problems validation done by Using ANSYS.
- The Department of Humanities regularly organizes Soft Skill classes for various departments, based on availability and requirement, to enhance the students' communication skills, grooming and body language to equip them for the professional



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world.

- Arranging live Webinars by foreign and eminent Professors. Displaying Videos which effectively communicate the working of actual engineering solutions and their impact.
 - Students are asked to submit assignments from internet and are asked to use software's for mini projects.
 - Arranging video sessions to show pictures, concepts through animation and delivering Lectures by PowerPoint presentation.
 - We have uploaded training methods, teaching aids, tools, PPT presentation, case studies and manuals in our Intranet portal facility website which can develop the student's and leads to self-learning.
 - The faculty members are encouraged to participate in short term courses, staff development programs and workshops on advanced topics to keep pace with the advanced level of knowledge and skills.
 - Over the past years the faculties have been participating/presenting papers in national/international conferences and publish their articles in national/international journals to enrich their knowledge.
- a. Lecture method and Interactive learning
 - b. Student Innovative Learning Centre
 - c. Advanced Learning Methods
 - d. Project-based Learning
 - e. Experimental Learning
 - f. Independent Learning
 - g. Peer Group Learning
 - h. Participative Learning
 - (i) Group Discussions
 - (ii) Quiz
 - (iii) Seminar
 - i. Interactive Learning
 - (i) Value-added course
 - (ii) Industrial visits
 - (iii) Assignments

Lecture method and Interactive learning Class Room Lecture is the main course delivery method for the courses combined with interactive discussion with students. This helps in obtaining a sound understanding on the course fundamentals, design and implementation issues, etc. The faculty members create an active learning environment inside the classroom. And, also use chalk and talk method and audiovisual aids in teaching learning process. Students are encouraged to actively interact during their lecture hour for getting their doubts Clarified On The Spot. Faculty Uses Innovative Methods Like Explaining With The Help Of Models, Animations, Video Film, Real-Time Analogies And Brainstorming Technique Are Adopted To Make The Classroom Teaching More Interactive And Interesting.



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Student Innovative Learning: Centre Faculty is using ICT classroom to provide interactive session. Projector is used for demonstration, online videos (NPTEL) and audio for classes.

Advanced Learning Methods: The faculty members are encouraged to use the Camu Software as a part of teaching-learning process. Camu is an integrated LMS (Learning Management Solution) system, which helps the student and the educational institutions to streamline the entire course using the Camu software. Each student is registered and provided with a separate Camu ID. The student can download their Course materials, Question banks, Formulae Handouts, Question Papers, Assignment Questions, Lesson Plans, etc using Camu application in their Mobile phones for effective learning apart from the classroom teaching.

Project-based Learning:

Innovative projects, mini-projects, and major projects are carried out by groups of students under the guidance of faculty, wherein students apply the knowledge of all related courses to provide hardware/software solutions and present demonstrable products to a panel of supervisors and audiences.

Experimental Learning:

Laboratory work demonstrates how theory can be verified by experiments through the interpretation of results. Experiments are normally conducted in groups so that students learn to work in teams.

Independent Learning:

- The institution provides a well-stocked library which includes the latest books, print journals, e-books, and e-journals provided using DELNET Membership. Students are encouraged to use the library independently to enhance their knowledge.
- The institution has an adequate number of computers with a 100 Mbps leased line to support Wi-Fi facility. Students can use the same for independent learning.
- Copies of project reports of passed-out UG and PG students, NPTEL materials, educational CD/DVD are available in the library which supports independent learning.
- Videos and E-learning materials are used to provide exposure to domain expertise of faculty members from various reputed institutes like NPTEL, etc.

Peer Group Learning:

Students are grouped in a mixed ratio of bright and weak in coaching classes. This type of learning helps the students to actively participate in their academic activities and show consistent improvement in examinations.

Participative Learning:

- Group Discussions: In group discussions, a small number of persons meet face to face and exchange and share ideas on the given topic freely.



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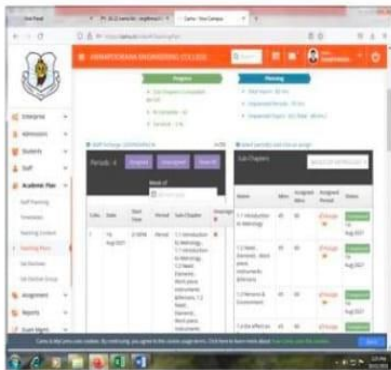
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CAMU DETAILS (ERP)

Teaching Plan in Camu Software



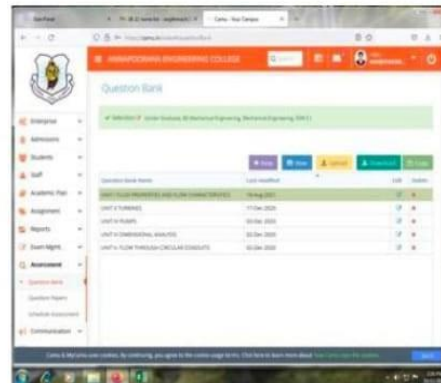
Class Time Table in Camu Software



Assignments in Camu Software



Question Bank in Camu Software



Attendance using Camu Software





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DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT INNOVATIVE LEARNING CENTRE





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EXPERIMENTAL LEARNING





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PEER GROUP LEARNING





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PARTICIPATIVE LEARNING -GROUP DISCUSSION





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INDEPENDENT LEARNING





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PROJECT BASED LEARNING





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LECTURE METHOD AND INTERACTIVE LEARNING





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SEMINAR





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INDUSTRIAL VISIT





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VALUE ADDED COURSES

