

St. Xavier's Catholic College of Engineering

Chunkankadai, Nagercoil-629003, Tamilnadu, India.

Department of Mechanical Engineering

Date & Time : 18th May 2026 at 10.30 a.m. – 01.00 p.m.
Venue : Board Room, SXCCE

AGENDA

08.01. Confirmation of seventh BoS meeting minutes held on 04-12-2025 and Decision/Action Taken report.

08.02. Discussion on the Suggestions / Recommendations offered by the members in the seventh Academic Council meeting.

08.03. Presentation of the 1st & 2nd semester syllabus and higher semester curriculum and getting recommendation and approval for the same of UG & PG Program for regulation 2026.

08.04. Approval of NPTEL course for credit transfer.

08.05. Other matters

Members Present: Enclosed

Minutes of the Eighth Board of Studies meeting

Eighth Board of Studies (BoS) meeting was conducted on 18-05-2026 by hybrid mode at 10.30 am. Dr. J. Jebeen Moses has initiated the BOS meeting by extended a warm welcome to the BoS members. Dr. M. Felix Xavier Muthu, chairman of the Board of Studies (BoS) shared the proposed curriculum and courses of first and second semester UG & PG Energy Engineering and started the discussion.

08.01. Confirmation of seventh BoS meeting minutes held on 04-12-2025 and Decision/Action Taken report.

Sl. No.	Minutes of 7 th BOS meeting	Action taken	Remarks
1	Course Outcomes (COs) - All Course Outcomes across the syllabus must be reviewed thoroughly - Ensure consistency and	Course outcomes were framed as per the BoS suggestion of the BoS members.	Confirmed by BoS

	clarity across all COs in the entire curriculum.		
2	Second Semester - Rename “Computer Aided Drafting” to “Computer Aided Machine Drawing”. - For Mechanical Engineering students, programming should begin with C language and progress to Python.	The course title was revised based on the suggestions of the BoS members. Python will be included as a part of coding skills in 3rd and 4th semester.	Confirmed by BoS
3	Third Semester The course title “Coding Skills and Soft Skills – Phase I” should be replaced with a more specific title. Correspondingly the titles for subsequent semesters should also be revised.	The course titles were revised based on the suggestions of the BoS members.	Confirmed by BoS
4	General Course and Curriculum Modifications - Rename “Project Management and Professional Ethics” as it functions as an induction-level programme. - Rename “Hydraulics and Pneumatics” to “Oil Hydraulics and Pneumatics”.	The Course titles were renamed as per the suggestions of the BoS members.	Confirmed by BoS
5	Internship Guidelines - Students may be encouraged to undergo international internships. - Attendance relaxation for internship participants should be included in regulations.	This proposal has been communicated to Dean Academics and will be included in 2026 regulation after getting approval.	Confirmed by BoS
6	Syllabus Development - Each course must contain five Course Outcomes and five Course Objectives. - Redesign the course “Foundations of Modern Manufacturing” as “Introduction to Mechanical Engineering”, with reference to the syllabi of NIT Trichy and Anna University.	The Course objectives and outcomes were included for all courses. The Course was revised and renamed as per the suggestions of the BoS members.	Confirmed by BoS
7	Engineering Drawing - Add the topic on introduction to perspective projection in Unit 5. - Prescribe Venugopal as Textbook and Jeyapoovan as Reference.	Modifications were carried out based on the suggestions of the BoS members.	Confirmed by BoS
8	Engineering Mechanics	Reference book was included as	Confirmed

	• Include the latest 'Pazhinisamy M., Engineering Mechanics, 3rd Edition, Charulatha Publications' as a reference book.	per the suggestions of the BoS members.	by BoS
9	Computer Aided Machine Drawing • Add Fits and Tolerances; consider inviting an automobile industry specialist for a guest lecture. • Include conversion of 2D drawings to 3D modelling.	Modifications were carried out based on the suggestions of the BoS members.	Confirmed by BoS
10	Engineering Makerspace Studio • Replace traditional carpentry tasks with wood carving and laser cutting.	Modifications were carried out as per the suggestions of the BoS members.	Confirmed by BoS
11	Additional Programme Recommendations • Verticals to be structured based on inputs from alumni and industry experts. • Add Industry 4.0 as an elective. • Include more AI/ML electives relevant to Mechanical Engineering.	Suggestions will be carefully considered in framing higher semester syllabus as per suggestions of the BoS members.	Confirmed by BoS
12	PG Programme: M.E. Energy Engineering First Semester • Add Optimization and Statistics under Mathematics. • Include a course on Energy Auditing.	Optimization and Statistics were included in Mathematics Course. Energy audit course was included as elective.	Confirmed by BoS
13	Third Semester • Restrict Semester III to three courses since they have to do project work. • Remove the industry-oriented course from Semester III. • Move "Waste to Energy" from core to elective under the name "Waste Management and Energy Generation".	Modifications were carried out as per the suggestions of the BoS members.	Confirmed by BoS
14	Instrumentation for Energy Systems • Rename the course title to "Instrumentation and Control". • Remove all content on air pollutants from Unit 4. • Replace "Liquid Biofuels" with "Future Fuels" in Unit 4.	Modifications were carried out as per the suggestions of the BoS members.	Confirmed by BoS

08.02. Discussion on the Suggestions / Recommendations offered by the members in the seventh Academic Council meeting.

Sl.No.	Suggestions / Recommendations offered by the members in the seventh Academic Council meeting	Decisions / Actions taken
1.	Credits may be aligned with the norms of Anna University.	Necessary modifications were carried out to ensure compliance with Anna University regulations.
2.	Course Outcomes shall be framed at higher cognitive levels.	Course Outcomes were reframed with higher-order cognitive levels of Bloom's Taxonomy.
3.	The CO-PO Mapping shall be thoroughly revamped.	Revised the CO-PO mapping matrices with improved correlation levels.

08.03. Presentation of the 1st & 2nd semester syllabus and higher semester curriculum and getting recommendation and approval for the same of UG & PG Program for regulation 2026.

The meeting was convened to review and refine the curriculum structure, course content, nomenclature, and academic regulations for the Mechanical Engineering (UG) programme and the M.E. Energy Engineering (PG) programme. The following detailed points were discussed and recommendations were made:

UG Programme: B.E. Mechanical Engineering

1. Revision in Course Title

- Revise the course title “Digital Manufacturing and Industry 4.0” to “Digital Manufacturing and include Industry 5.0 instead of 4.0.

2. Restructure of Course

- Restructure the syllabus of “Engineering Materials and Metallurgy” to ensure a more logical sequence of topics. Recommendation: Units I and II revise to cover engineering materials and their properties, Units III and IV has to focus on phase transformations and heat treatment, and Unit V has to address mechanical testing, thereby improving continuity and student understanding.

3. Revision of Heat Transfer Course

- Revise and modify the course title “Heat Transfer” to “Heat and Mass Transfer”

4. Integration of Design Courses

- Integrate the “Machine Design” course with “Design of Transmission Systems” and proposed to structure the courses in a 3+2 unit format.

5. Modifications in Engineering Drawing

- Revise the Engineering Drawing syllabus by including topics such as projections of points, lines, and planes inclined to both planes.

PG Programme: M.E. Energy Engineering

1. Introduction of AI & ML Course for PG Programme

- Introduce an AI & ML related course in the PG programme, such as AI & ML in Energy Auditing.

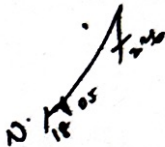
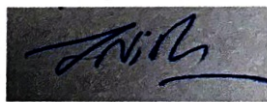
Conclusion

The above recommendations were discussed and accepted for further revision and implementation, subject to approval by the academic bodies.

08.04. Approval of NPTEL course for credit transfer.

Academic Year		2024-2025		
Semester		6		
Course Code and Title		24ME130 Metal Additive Manufacturing		
Duration in Weeks		12		
Sl. No.	Register Number	Name	Marks As Per NPTEL Certificate out of 100	Grade As Per AU Norms
1	962223114052	RAYAAN SHAHUL HAMEED	68	B+
2	962223114061	SANJAY M	61	B+

Finally, The Chairman of BOS thanked the expert members and the faculty members for their valuable suggestions and support. Around 01.00 pm the meeting concluded with cheerful conversation.

Sl. No.	Name of the Expert	Category	Signature
1	Dr. A. Krishnaveni, Professor & Head (PG & Part Time) Department of Mechanical Engineering, Government college of Engineering, Tirunelveli	University Nominee	
2	Dr. N. Siva Shanmugam, Professor, Department of Mechanical Engineering National Institute of Technology, Tiruchirappalli – 620015	External stakeholder (Subject Expert)	
3	G. Jims John Wessley, Associate Professor (and Head), Department of Aerospace Engineering, Karunya Institute of Technology and Sciences, Coimbatore	External stakeholder (Subject Expert)	
4	Nishanth Joseph. J Head, IT projects – Supply chain and warehouse logistics, Bangalore.	External stakeholder (Industrial Expert)	
5	Dr. M.A. Aravindh, Scientist 'D', Ministry of New and Renewable Energy, Government of India, New Delhi	External stakeholder (Alumni Member)	


HoD (MECH)
Dr. M. Felix Xavier Muthu

Dr. M. Felix Xavier Muthu, M.E., Ph.D.,
Head of the Department,
Department of Mechanical Engineering,
St. Xavier's Catholic College of Engineering,
Chunkankadai, Nagercoil TN India-629003


DEAN (ACADEMICS)
Dr. R. P. Anto Kumar
Prof. Dr. R. P. ANTO KUMAR, M.E., Ph.D.,
Dean (Academics)
Member Secretary (Academic Council)
St. Xavier's Catholic College of Engineering
Chunkankadai, Nagercoil – 629 003.


PRINCIPAL
Dr. J. Maheswaran
Dr. J. MAHESWARAN, M.E. Ph.D. FIE. MISTE.
PRINCIPAL
SLXAVIER'S CATHOLIC COLLEGE OF ENGINEERING
CHUNKANKADAI
NAGERCOIL - 629 003