

# St. Xavier's Catholic College of Engineering

Chunkankadai, Nagercoil-629003, Tamilnadu, India.

## Department of Mechanical Engineering

Date & Time : 30<sup>th</sup> May 2025 at 11.00 a.m. – 01.00 p.m.

Venue : CAM Lab, SXCCE

### AGENDA

- 06.01. Confirmation of Fifth BoS meeting minutes held on 26-11-2024 and Decision/Action Taken report.
- 06.02. Discussion of suggestion/ recommendations offered by the members of academic council and governing body.
- 06.03. Presentation of the proposed curriculum and getting recommendation for approval for the VIII semester courses, detailed draft syllabi of UG Mechanical Engineering program for regulation 2022.
- 06.04. Approval of NPTEL course for credit transfer.
- 06.05. Other matters if any.

**Members Present:** enclosed

### Minutes of the Sixth Board of Studies meeting

Sixth Board of Studies (BoS) meeting was conducted on 30-05-2025 by hybrid mode at 11.00am. Dr. M. Antony Forster Raj has initiated the BOS meeting by introducing the external members and internal members. Dr. G. Antony Miraculas, chairman of the Board of Studies (BoS) shared the proposed curriculum and courses of eighth semester UG Mechanical Engineering and started the discussion. The Principal expressed sincere gratitude to the BoS members for their consistent and active participation in the BoS meetings held every six months since 2022. As a token of appreciation for their valuable contributions and dedicated service, the Principal presented each member with a memento.

**06.01. Confirmation of Fifth BoS meeting minutes held on 26.11.2024 and Decision/Action Taken report.**

| Sl. No. | Minutes of 5 <sup>th</sup> BOS meeting   | Action taken   | Remarks          |
|---------|--|--|------------------|
| 1       | In the course “Total Quality Management”, abbreviations shall be explained and titles of unit 3 and unit 4 can be changed. After discussion it was decided to rename unit-3 as ‘Quality Management Tools and Techniques’ and unit-4 as ‘Key Concepts in TQM’.            | Modification done in the syllabus<br>Unit-3 - Quality Management Tools and Techniques<br>Unit-4 - Key Concepts in TQM<br><br>Expanded abbreviations:<br>Total Quality Management (TQM)<br>Environmental Management Systems (EMS).<br>Plan-Do-Study-Act (PDSA)<br>Failure Modes and Effects Analysis (FMEA)<br>Quality Function Deployment (QFD)<br>Total Productive Maintenance (TPM)<br>Business Process Reengineering (BPR). | Confirmed by BoS |
| 2       | The following Courses are identified as open elective to be offered by Mechanical Engineering to other Departments:<br>Open Elective-II<br>Additive Manufacturing<br>Elements of Marine Engineering<br>Open Elective-III<br>Composite Materials<br>Production Management | Syllabus of the open elective was presented and approved by BoS.<br><br>Open Elective-II<br>ME22781 Additive Manufacturing<br>ME22782 Elements of Marine Engineering<br><br>Open Elective-III<br>ME22783 Composite Materials<br>ME22784 Production Management  | Confirmed by BoS |
| 3       | In simulation and analysis lab, the word Matlab shall be renamed as simulation software.   | Matlab was renamed as simulation software  | Confirmed by BoS |
| 4       | In the course “Product Development/Mini project” mechanical curriculum can retain “Product Development lab” as the course title  | Course title was finalized as “Product Development lab”  | Confirmed by BoS |

**06.02. Discussion of suggestion/ recommendations offered by the members of academic council and governing body.**

There were no specific comments during 5<sup>th</sup> academic council and governing body meeting.

**06.03. Presentation of the proposed curriculum and getting recommendation for approval for the VIII semester courses, detailed draft syllabi of UG Mechanical Engineering program for regulation 2022.**

1. The Course Outcomes (COs) should comprehensively address all the Programme Outcomes (POs) to enable effective mapping.

|            | <b>Statement</b>  | <b>Mapped POs</b>  |
|------------|---|--|
| <b>CO1</b> | Apply engineering knowledge to identify and formulate real-world engineering problems, and design effective technical solutions.                                | PO1 (Engineering Knowledge), PO2 (Problem Analysis), PO3 (Design/Development of Solutions) |
| <b>CO2</b> | Investigate engineering challenges using analytical methods, experiments, or simulations, and evaluate solutions using modern engineering tools and techniques. | PO4 (Investigation), PO5 (Modern Tool Usage)   |
| <b>CO3</b> | Assess the impact of engineering solutions on society, health, safety, legal, and environmental aspects, and demonstrate awareness of sustainable development.  | PO6 (Society), PO7 (Environment and Sustainability)  |
| <b>CO4</b> | Exhibit ethical behavior and professional responsibility while collaborating effectively within multidisciplinary teams to achieve project goals.               | PO8 (Ethics), PO9 (Team Work)  |
| <b>CO5</b> | Present technical works effectively, manage resources and timelines efficiently, and demonstrate commitment to lifelong learning.                               | PO10 (Communication) PO11 (Project Management and Finance), PO12 (Lifelong Learning)       |


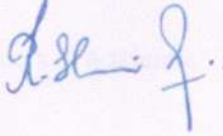



2. The evaluation rubrics for Project Work shall be standardized and made common across all departments.


**06.04. Approval of NPTEL course for credit transfer.**

| <b>Academic Year</b>         | <b>2024-2025</b>                            |                       |  |                              |
|------------------------------|---|-----------------------|--|------------------------------|
| <b>Semester</b>              | <b>7</b>                                    |                       |  |                              |
| <b>Course Code and Title</b> | <b>24ME130 Metal Additive Manufacturing</b> |                       |  |                              |
| <b>Duration in Weeks</b>     | <b>12</b>                                   |                       |  |                              |
| <b>Sl. No.</b>               | <b>Register Number</b>                      | <b>Name</b>           | <b>Marks As Per NPTEL Certificate out of 100</b> | <b>Grade As Per AU Norms</b> |
| 1                            | 962222114041                                | Johnson Raj S         | 84   | A+                           |
| 2                            | 962222114049                                | Raihaan Ajimalam Babu | 73   | A                            |


3

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. C. Paramasivan,<br>Professor,<br>Department of Mechanical Engineering,<br>Thiagarajar College of Engineering,<br>Thiruparankundram, Madurai,<br>TamilNadu.                               | University<br>Nominee                             |    |
| 2       | Dr. R. Edwin Raj,<br>Program Coordinator & Professor,<br>Department of Mechanical Engineering,<br>National Rail and Transportation<br>Institute, Vadodara, Gujarat                           | External<br>stakeholder<br>(Subject<br>Expert)    |    |
| 3       | Dr. S. C. Vettivel,<br>Professor, Dept. of Mechanical<br>Engineering,<br>Chandigarh College of Engineering and<br>Technology (Degree wing), Department<br>of Technical Education, Chandigarh | External<br>stakeholder<br>(Subject<br>Expert)    |   |
| 4       | Mr. R. Justine,<br>Assistant General Manager,<br>Howden Solyvent (India) Private<br>Limited,<br>147, Poonamallee high road, Numbai,<br>Chennai - 77.   | External<br>stakeholder<br>(Industrial<br>Expert) |  |
| 5       | Mr. J. C. Manohar Lal,<br>Manager Maintenance, GAIL (India)<br>Limited,<br>Petrochemical Complex, PATA, Auraiya,<br>Kanpur, Uttar Pradesh.   | External<br>stakeholder<br>(Alumni<br>Member)     |  |

  
30/5/2025  
HoD (MECH)

Dr. G. Antony Miraculas  
HEAD OF DEPARTMENT  
Dept. of Mechanical Engineering  
St. Xavier's Catholic College of Engg.  
Chunkankadai-629 003

  
30/5/2025  
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

PRINCIPAL  
Dr. J. Maheswaran  
Dr. J. MAHESWARAN, M.E. Ph.D. FIE. MISTE.  
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