

St. Xavier's Catholic College of Engineering

Chunkankadai, Nagercoil-629003, Tamilnadu, India.

Department of Mechanical Engineering

Date & Time : 26th November 2024 at 10.30 a.m. – 12.40 p.m.
Venue : CAM Lab, SXCCE

AGENDA

- 05.01. Confirmation of fourth BoS meeting minutes held on 20-06-2024 and Decision/Action Taken report.
- 05.02. Discussion of suggestion/ recommendations offered by the members of governing body.
- 05.03. Presentation of the proposed curriculum and getting recommendation for approval for the VII semester courses and Open elective II & III courses, detailed draft syllabi of UG mechanical engineering program for regulation 2022.
- 05.04. Approval of NPTEL course for credit transfer.
- 05.05. Other matters if any.

Members Present : enclosed

Minutes of the Fifth Board of Studies meeting

Fifth Board of Studies (BoS) meeting was conducted on 26.11.2024 by hybride mode using at 10.30am. Dr. M. Antony Forster Raj has initiated the fifth BOS meeting by introducing the external members and internal members. Dr. R.P. Anto Kumar, Dean Academics, SXCCE gave a brief introduction about the importance of BoS meeting. Dr. G. Antony Miraculous, chairman of the BoS shared the proposed curriculum and courses of seventh semester UG Mechanical Engineering and started the discussion.

05.01. Confirmation of Fourth BoS meeting minutes held on 20.06.2024 and Decision/Action Taken report.

Sl. No.	Minutes of 4 th BOS meeting	Action taken	Remarks
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1	<p>Six courses were initially discussed for open electives-1, out of which two courses were finalized for open elective-1.</p> <ul style="list-style-type: none"> • Energy technology • Nanomaterials <p>This course will be offered by the Mechanical Engineering department for the 6th semester other branch students.</p>	Energy technology and Nanomaterials were identified as courses for Open Elective-1	Confirmed by BoS
2	<p>In the course “Energy Technologies”, hours allocated for first unit was suggested to reduce as 6 hours.</p> <p>As the syllabus in the same course is vast, experts suggested to remove the ‘Energy Conservation’ part and split the 3rd unit (Non-Conventional Energy) into two units renaming it as Solar Energy and Wind Energy</p>	<p>Hours allotted for the first unit has been reduced</p> <p>Unit 5 (Energy Conservation) has been removed.</p> <p>Unit 3 has been renamed as Solar Energy and Wind Energy</p>	Confirmed by BoS
3	<p>In Finite element analysis, experts suggested to modify the course objectives and also, suggested to change one of the text books to latest edition..</p>	<p>Modified Course Objectives</p> <ul style="list-style-type: none"> •To learn basic principles of finite element analysis procedure •To apply the finite element solutions to one dimensional problem. •To learn the theory and characteristics of finite elements that represent engineering Structures. •To develop the knowledge in order to effectively evaluate structural and thermal problems. •To solve the problems from isoperimetric formulation. <p><i>Latest edition text books have been included.</i></p>	Confirmed by BoS
4	<p>Expert suggested mapping course outcome with PO1 for all engineering subjects to a scale of 3.</p>	CO-PO1 has been mapped as 3 for the 6th semester courses and open electives.	Confirmed by BoS

05.02. Discussion of suggestion/ recommendations offered by the members of governing body.

Sl. No.	Minutes of 4 th Academic Council Meeting	Action taken	Remarks
1	It is recommended to include the thrust areas like Bio-materials, Additive manufacturing, Lithium-titanate batteries as additional electives in addition to Nano-materials.	Additive manufacturing is included as an open elective and bio-materials have been also been included in unit-3. Energy storage devices have been included as an elective and lithium batteries has also been included as a chapter in the same.	Confirmed by BoS

05.03. Presentation of the proposed curriculum and getting recommendation for approval for the IV year, Open elective II & III detailed syllabi of UG program for regulation 2022.






- In the course “Total Quality Management”, abbreviations should 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’.
- The following subjects are selected as open elective:
 - Open Elective-II
 - Additive Manufacturing
 - Elements of Marine Engineering
 - Open Elective-III
 - Composite Materials
 - Production Management
- In simulation and analysis lab, the word Matlab shall be renamed as simulation software.
- In the course “Product Development/Mini project” mechanical curriculum can retain “Product Development lab” as the course title.
- In “Composite Materials” course it is suggested to add metal matrix composite basics in Unit I.

05.04. Approval of NPTEL course for credit transfer.


Academic Year		2024-2025		
Semester		7		
Course Code and Title		noc24-mg48-Production and Operation Management		
Duration in Weeks		12		
Sl. No.	Register Number	Name	Marks As Per NPTEL Certificate out of 100	Grade As Per AU Norms
1	962221114302	Abish Jerome M	50	B
2	962221114060	Michael beckham M	50	B
3	962221114016	Anish A	52	B
4	962221114014	Ananthu S V	49	C
5	962221114017	Ansel Christo C	49	C
6	962221114033	Divine X	46	C
7	962221114073	M Rajin	57	B
8	962221114305	Aswin G	50	B
9	962221114306	Benil Nishi A	48	C

Semester		5		
Course Code and Title		noc24-me27-Computer Integrated Manufacturing		
Duration in Weeks		12		
Sl. No.	Register Number	Name	Marks As Per NPTEL Certificate out of 100	Grade As Per AU Norms
1	96222114034	JEFFRIN DIAZ SAVIO R J	64	B+

Finally, The Chairman of BOS thanked the expert members and the faculty members for their valuable suggestions and support. Around 12.30 pm the meeting concluded with cheerful conversation.

Sl. No.	Name of the Expert	Category	Signature
1	Dr. C. Paramasivan, Professor, Department of Mechanical Engineering, Thiagarajar College of Engineering, Thiruparankundram, Madurai, Tamilnadu.	University Nominee	
2	Dr. R. Edwin Raj, Program Coordinator & Professor, Department of Mechanical Engineering, National Rail and Transportation Institute, Vadodara, Gujarat	External stakeholder (Subject Expert)	
3	Dr. S. C. Vettivel, Professor, Dept. of Mechanical Engineering, Chandigarh College of Engineering and Technology (Degree wing), Department of Technical Education, Chandigarh	External stakeholder (Subject Expert)	
4	Mr. R. Justine, Assistant General Manager, Howden Solyvent (India) Private Limited, 147, Poonamallee high road, Numbai, Chennai - 77.	External stakeholder (Industrial Expert)	
5	Mr. J. C. Manohar Lal, Manager Maintenance, GAIL (India) Limited, Petrochemical Complex, PATA, Auraiya, Kanpur, Uttar Pradesh.	External stakeholder (Alumni Member)	


26/11/2024
HoD (MECH)
Dr. G. Antony Miraculas


26/11/2024
DEAN (ACADEMICS)
Dr. R.P. Anto Kumar


PRINCIPAL
Dr. J. Maheswaran

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