

St. Xavier's Catholic College of Engineering, Chunkankadai- 629 003
(An Autonomous Institution - Affiliated to Anna University, Chennai)

www.sxcce.edu.in

Faculty of Mechanical Engineering

1st Board of Studies Meeting

Date & Time : 19th November 2022 at 11.00 a.m. – 03.00 p.m.

Venue : CAD Lab Mechanical Engineering

AGENDA

- Welcome Address
- Introductory Remarks
- Presentation of Draft Curriculum and Draft Syllabus, HOD - MECH
- Discussion

Members Present: enclosed

MINUTES OF THE MEETING

Dr. M. Antony Forster Raj has initiated the first BOS meeting by introducing the external members and internal members and thanked each of them for sparing their valuable time to attend the meeting. Our Principal Dr. J. Maheswaran gave the introductory speech.

The chairmen, BOS of **Faculty of Mechanical Engineering** presented the newly framed 2022 draft curriculum & syllabi for B.E., Mechanical Engineering (Semesters 1 to 8) and M.E., Energy Engineering (Semester 1 to 4).

UG discussion

After an overview of curriculum and syllabus, the discussion was started from the first year itself.

- ✚ Instead of the name of manufacturing technology subject, use mechanical operation names in the subject itself also consider global resources and supply chain management in verticals at least.
- ✚ Consider the Jigs, fixtures and press tools, added in verticals or incorporate with any one subject as a unit.
- ✚ In the 3rd sem., instead of Electrical Engineering Laboratory replace electrical and electronics with drives.
- ✚ In the 6th sem., mechatronics laboratory, add embedded systems and microprocessor.
- ✚ In elective subjects, consider artificial intelligence as open elective and also add transportation and logistics as a subject in vertical.
- ✚ In the 5th and 6th semester, students can skip two professional electives if they completed npTEL course before the respective semester. Also arranged 2 or 3 faculty members as a team to evaluate the npTEL course.

- ✦ In the 8th semester, students will do internship or project. Students can do internship, those who got passed all subjected till 7th semester. Students, who have back log, arrange for some program for them.
- ✦ In the vertical, included the subject design of transmission systems, better add few topics from DTS in design of machine elements which is in 5th semester.

Semester wise discussion:

First Semester:

- ✦ All the members are agreed the first semester curriculum with full satisfaction.

Second semester:

- ✦ In the second semester, total credits are 26. Members asked to keep the total credits not to exceed 24 per semester, if possible.
- ✦ Checked the syllabus of 2nd semester material science and 3rd semester material & metallurgy subject, both were entirely different.
- ✦ In the Computer Aided design and Drafting Laboratory must add the standard SP46-2003 to study about the fundamentals. Also, add production drawing as a part of this lab and add a reference book for the same as titled production drawing by K. L. Narayana.
- ✦ In any lab, avoid the words such as study, demo, etc. and make a sentence for better understanding for the students.

Third semester:

- ✦ In engineering thermodynamics, already added psychometry part as fifth unit and it has been accepted by the members of BoS.
- ✦ Change all the CO's of fluid mechanics and machinery subject.
- ✦ In manufacturing technology subject, change the subject name and make a new name which should contain the process names like metal forming and removal process or metal additive process.
- ✦ Constitution of India subject should be taken by an advocate.
- ✦ Value education also should be taken by well-trained specialized trainers.
- ✦ Change the name manufacturing lab into Machining process lab.

Fourth semester

- ✦ Invite guest lecturer from suitable industry or safety engineers to handle the audit course Industrial Safety Engineering.

Fifth semester:

- ✦ Add basics of design of transmission content with design of machine elements, since DTS is in verticals.

- ✦ In plant training course, make clear about the assessment rubrics.

Sixth semester:

- ✦ In the mechatronics lab, 12 experiments are sufficient out of 16.
- ✦ In CAD/CAM lab, typo mistake, correct the sentence and also remove the manual drawing. Change the CO's and split it.

Seventh semester:

- ✦ Add financial accounting or management instead of total quality management.
- ✦ In simulation lab syllabus, remove the equipment list.
- ✦ In electives, remove advanced IC engines subject since it is outdated.

Eighth semester:

- ✦ If possible, students can select one NPTEL course relevant to their project topic.

PG discussion

First semester:

- ✦ Change the entire subject CO's and all must have the cognizant level 'Ap'.
- ✦ In renewable energy systems cum lab, correct the credits and reduce the number of experiments since theory cum practical subject 30% practical portion is enough.
- ✦ In technical seminar, change the objectives and also in guidelines add published reputed journal for reference.

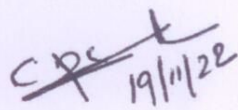
Second semester:

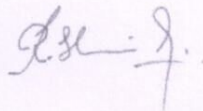
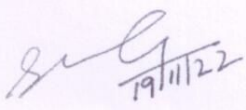

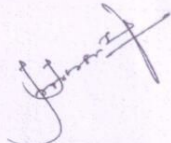
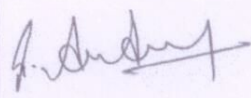
- ✦ In theory cum practical subjects, make a common subject code for easy understanding.
- ✦ Change the subject name Analysis and Simulation Laboratory for Energy Engineering into analysis and simulation of energy systems laboratory.

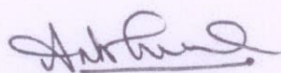
Third semester:

- ✦ Change the subject name for advanced power plant engineering and give a specific name like waste heat recovery systems.

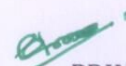
Finally, The Chairman of BOS thanked the expert members and the faculty members for their valuable suggestions and support. Around 3.00 pm the meeting concluded with cheerful conversation.

Sl. No.	Name of the Expert	Category	Signature
1	Dr. C. Paramasivan, Professor, Department of Mechanical Engineering, Thiagarajar College of Engineering, Thiruparankundram, Madurai, Tamilnadu.	Anna University Nominee	 19/11/22

2	Dr. R. Edwin Raj, Program Coordinator & Professor, Department of Mechanical Engineering, National Rail and Transportation Institute, Vadodara, Gujarat	Subject Expert	
3	Dr. S. C. Vettivel, Professor, Department of Mechanical Engineering, Chandigarh College of Engineering and Technology (Degree wing), Department of Technical Education, Chandigarh Administration, Section - 26, Chandigarh	Subject Expert	 19/11/22
4	Mr. R. Justine, Assistant General Manager, Howden Solyvent (India) Private Limited, 147, Poonamallee high road, Numbai, Chennai - 77.	Industrial Expert	
5	Mr. J. C. Manohar Lal, Manager Maintenance, GAIL (India) Limited, Petrochemical Complex, PATA, Auraiya, Kanpur, Uttar Pradesh.	Alumni Member	
6.	Dr. G. Antony Miraculas, Associate Professor, Mechanical Engineering, St. Xaviers Catholic College of Engineering, Nagercoil - 629004	HOD Mechanical Engineering	



ACADEMIC DEAN
Dr. R.P. Anto Kumar



PRINCIPAL
Dr. J. Maheswaran

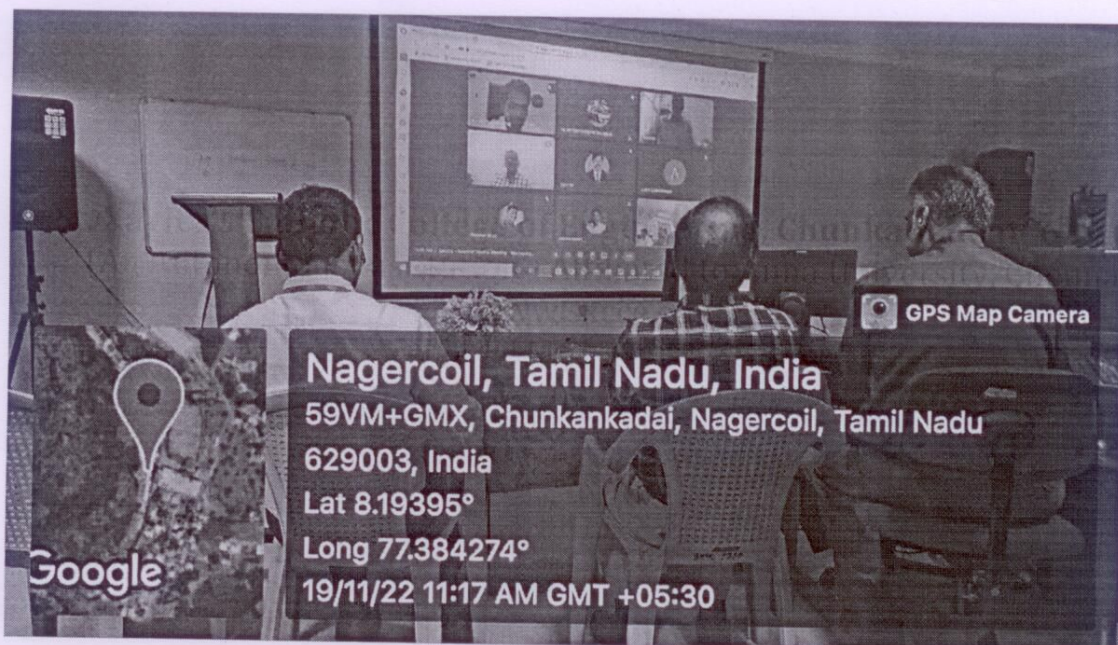
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Faculty of Mechanical Engineering

1st Board of Studies Meeting

Photos



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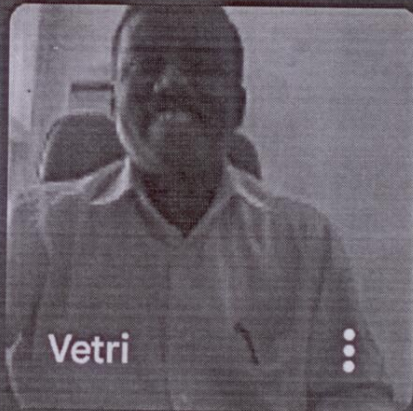
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Vetri



R. Edwin



Manohar...



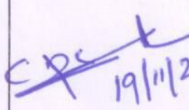
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Department of Mechanical Engineering


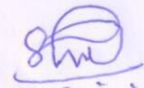
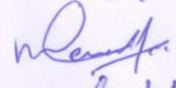


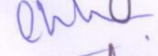
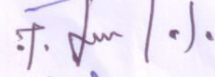
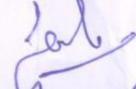
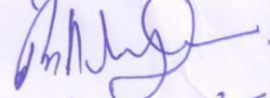
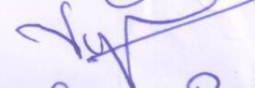
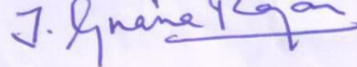

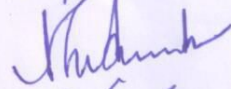



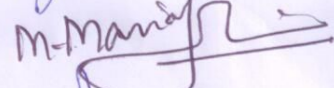
First Board of Studies Meeting

First Board of Studies (BOS) meeting was conducted on 19.11.2022 at 11.00 A.M. The subject experts and faculty members, who have attended the meeting, are

Sl. No.	Name of the Expert	Details	Signature
1	Dr. C. Paramasivam Professor, Mechanical Engineering Department Thiagarajar College of Engineering, Madurai 625015	Expert nominated by the vice chancellor of Anna University	 19/11/22
2	Dr. R. Edwin Raj, Program Coordinator & Professor, Department of Mechanical Engineering, National Rail and Transportation Institute, Vadodara, Gujarat	External stakeholder (Subject Expert)	Online
3	Dr. S. C. Vettivel, Professor, Mechanical Engineering Department, Chandigarh College of Engineering and Technology (Degree wing), Department of Technical Education, Chandigarh Administration, Section - 26, Chandigarh	External stakeholder (Subject Expert)	Online
4	Mr. R. Justine, Assistant General Manager, Howden Solyvent (India) Private Limited, 147, Poonamallee high road, Numbai, Chennai - 77.	External stakeholder (Industrial Expert)	Online
5	Mr. J. C. Manohar Lal, Manager Maintenance, GAIL (India) Limited, Petrochemical Complex, PATA, Auraiya, Kanpur, Uttar Pradesh.	External stakeholder (Alumni Member)	Online

Internal members

1. Dr. G. Antony Miraculas (HOD) - Chairman
2. Dr. M. Felix Xavier Muthu (AHOD) - Associate Professor
3. Dr. M. Gerald Arul Selvan (IQAC) - Assistant Professor
4. Dr. Ananth Rajkumar (NBA Coordinator) - Assistant Professor
5. Dr. M. Antony Forster Raj - Assistant Professor
6. Dr. G. Shanthos Kumar - Assistant Professor
7. Dr. Y. Balto - Assistant Professor
8. Dr. J. Jebeen Moses - Assistant Professor
9. Mr. P. Jose Aloysius - Assistant Professor
10. Mr. V. T. Vijumon - Assistant Professor
11. Mr. J. Gnana Rajan - Assistant Professor
12. Mr. M. L. Ajin - Assistant Professor
13. Mr. M. M. Anwar Rajesh - Assistant Professor
14. Mr. D. X. Tittu George - Assistant Professor
15. Mr. A. Anitto Joe Xavier - Assistant Professor
16. Mr. A. G. Nibesh - Assistant Professor
17. Mr. M. Maria Jebin - Assistant Professor
18. Mr. T. Michel Raj - Assistant Professor

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