

St. Xavier's Catholic College of Engineering

Chunkankadai, Nagercoil-629003, Tamilnadu, India.

Department of Mechanical Engineering

Date & Time : 6th January 2024 at 10.30 a.m. – 01.30 p.m.

Venue : Board Room, SXCCE

AGENDA

03.01. Confirmation of Second BoS meeting minutes held on 24.05.2023 and Decision/Action Taken report.

03.02. Discussion on the Suggestions / Recommendations offered by the members in the 2nd Academic Council meeting.

03.03. Presentation of the proposed curriculum and getting recommendation for approval for the III-year detailed draft syllabi of the UG Programme for regulation 2022.

03.04. Ratification for including Naan Mudhalvan courses and Tamil courses as per the directions of Anna University & Government of Tamilnadu.

03.05. Other matters if any.

Members Present : enclosed

Minutes of the Third Board of Studies meeting

Third Board of Studies (BOS) meeting was conducted on 06.01.2024 by online and offline mode using Google Meet at 10.30 A.M. Dr. M. Antony Forster Raj has initiated the second BOS meeting by introducing the external members and internal members. Dr. V. Christus Jeyasingh, Vice-Principal, SXCCE gave facilitation and spoken about the importance of BOS meeting. Dr. G. Antony Miraculous, chairman of the BOS shared the proposed curriculum and subjects of 3rd year UG and Verticals of Mechanical Engineering and started the discussion.

03.01. Confirmation of Second BoS meeting minutes held on 24.05.2023 and Decision/Action Taken report.

Sl. No.	Minutes of 2 nd BOS meeting	Action taken	Remarks
1	In the consolidated mark sheet has to	The mark sheets have been	Confirmed by BoS

	be described the theory cum practical subjects separately.	issued and the said modification shall be incorporated in next regulation after getting approval from Academic council.	
2	If any student completed a non-mandatory NPTEL course, then they can skip one elective.	Incorporated in Regulations	Confirmed by BoS
3	For UG students, publications are not mandatory.	Publications are not mandatory for UG	Confirmed by BoS
4	In the Naan Muthalvan scheme (total 6 credits), students can skip one 3 credit course from 6 th semester and another 3 credit course from 7 th semester.	Ratification for including Naan Mudhalvan courses and Tamil courses as per the directions of Anna University & Government of Tamilnadu. Has been ratified in BoS.	Confirmed by BoS
5	In theory cum practical subjects, limit the number of experiments up to 7.	Limitations in number of experiments have been included in the syllabus for TCP subjects.	Confirmed by BoS
6	In the 3 rd sem., instead of manufacturing technology lab replace manufacturing process lab.	Changed the subject name as manufacturing process lab.	Confirmed by BoS
7	In the PG electives, instead of Design and analysis of Turbo machines replace by another one like electric vehicle.	In the PG electives, EY22324 - Electrical Vehicles has been included.	Confirmed by BoS
8	For PG, during 4 th semester students can do their project related relevant courses at NPTEL/Swayam. Assessment might be done by their mentor through an internal test.	It has been implemented and the same will be considered for their internal mark.	Confirmed by BoS
9	PG, Students can go for summer internship and based on the days, can be given the credit as per AICTE norms. This summer internship credit must add in the 2 nd semester. One week – 1 credits	4 week summer internship has been included in the 3 rd semester curriculum with 4 credits	Confirmed by BoS

03.02. Discussion on the Suggestions / Recommendations offered by the members in the I Academic Council meeting.

The second Academic Council meeting of St. Xavier's Catholic College of Engineering was conducted on 15.07.2023 (Saturday) at 10:00 am at Einstein Hall. The academic council meeting has given some suggestions and recommendations, which are also discussed in detail in the BOS meeting.

Suggestions / Recommendations related to Regulation by the members during II Academic Council Meeting	Decisions / Actions taken	BOS Recommendations
It was suggested to get approval from the BoS for the online courses that are going to be offered from NPTEL/SWAYAM platform before offering them to the students.	All the departments identified the NPTEL / SWAYAM courses which are equivalent to the 5th and 6th semester's Professional Elective courses for UG Programmes and 3rd semester PG programmes and got the recommendation of BoS. The BoS suggested to consider IIT Spoken tutorial courses with assessment and grade sheet with credits also.	Approved
It was recommended to ensure all the students should take Model Examination for the Laboratory Courses to have the exposure to 3 hours end semester practical examination.	Being Practiced.	Approved
It was suggested to make the Value Added Courses as optional Courses.	Incorporated in the Regulations.	Approved
It was suggested to have One Credit Courses to be handled by Industry Experts.	Two credits Naan Mudhalvan courses on cutting-edge technologies are offered to the students by industrial experts in each semester, which is one of the initiatives of the Tamil Nadu Government. In addition to this, seminars by Industrial experts can be arranged as per the requirement.	Approved

It was suggested to incorporate ABC suggested in NEP in the next Regulations.	Decided to incorporate in the next Regulations.	Approved
It was suggested to specify the evaluation procedure for the Internship and the checking mechanism of the genuinity of the Industry where the students are accommodated for the Internship.	Evaluation procedure is already available in the Regulations. The Placement and Training cell will check the genuinity of the Industry before permitting the students for the Internship and the Department will continuously monitor the progress.	Approved
It is recommended to have Journal Publication as optional instead of having it Mandatory for the Programmes.	Changes were made in the Regulation. All the BoS recommended to make Journal / Conference publications as Desirable and to encourage the students to publish their Project results/findings in reputed journal as an article and those students who are doing that can be honoured by providing higher grades in the particular course. It should not be made mandatory since it takes long time for publication. For PG programme 1 journal publication Or 2 reputed conference publication is recommended. For UG programme 1 Conference publication is recommended.	Approved
It was recommended to increase the duration of a period from 45 minutes to 50 minutes for OBE based teaching.	To incorporate 2 credit laboratory courses, it is necessary to have 8 periods per day. So having 45 minutes periods are convenient to provide necessary tea breaks(15min) and lunch break(45 min).	Approved

Suggestions / Recommendations related to Curriculum and Syllabi by the members during II Academic Council Meeting	Decisions / Actions taken	BOS Recommendations
It was suggested to use Bloom's Taxonomy Keywords while	Incorporated in the syllabi.	Approved

formulating the Course Outcomes.		
It was recommended to include the latest versions of the text books.	Incorporated in the syllabi.	Approved
The total credit for the PG programmes may be increased.	The BOS recommended not to change the total credit required to complete the programme, since the PG students have to give more concentration on research activities and self learning and also it is on par with AICTE / Anna University recommendations.	Approved
It was suggested to avoid 1.5 credits Laboratory Courses.	For the detailed Hands on Experience it is suggested to have 2 credit Laboratory Courses.	Approved
It was suggested not to offer NPTEL/SWAYAM online courses for P.G. Programmes.	Anna university is offering this facility. On considering the student's benefits it is recommended to offer NPTEL/SWAYAM online courses to P.G. students also.	Approved
It is suggested to rename the course "Research Tools in Engineering to "Research Tool Laboratory" for the P.G. Programmes.	Modified in the Curriculum and Syllabi.	Approved
It is suggested to change the label "Verticals" for the elective courses track to some other appropriate label.	"Verticals" is the generic term used by Anna University. To avoid confusions the same terminology is recommended. It is recommended to have a unique name for each vertical and each should be clearly differentiated from the other verticals.	Approved
It was suggested to have two text books and five reference books for UG courses and five reference books for PG courses.	Incorporated in the syllabi.	Approved

It was suggested to change the course title of Placement training courses.	It was decided to rename the “Placement training course” to “Skill Development Courses” and incorporate both in the curriculum and in the syllabi.	Approved
It was observed that the number of courses in the 3rd semester of the U.G. Programmes is high.	The course “Value Education” is made as a Non-credit mandatory course. Also, the number of courses per semester is restricted to a maximum of 10 as per the Anna University Curriculum.	Approved
It was suggested to change the title of the course “Higher Order Thinking”.	The syllabus of this course includes the concepts of both Critical Thinking and Creative thinking. So “Higher Order Thinking” is the right title for this course.	Approved
Faculty of Mechanical Engineering It is suggested to modify the course title “Simulation and Analysis Lab” to “Simulation and Analysis Lab for Energy Systems”.	“Simulation and Analysis Lab” has been renamed as “Simulation and Analysis Laboratory for Energy Systems”.	Approved

Suggestions / Recommendations related to Examination procedures by the members during II Academic Council Meeting	Decisions / Actions taken	BOS Recommendations
It is suggested to send CO-PO mapping to question paper setters.	Implemented and being practiced.	Confirmed.
It is suggested to have question paper audit.	Implemented and being practiced.	Confirmed.
It is suggested to get feedback from the answer script evaluators	Implemented and being practiced.	Confirmed.

on the question papers.		
-------------------------	--	--

Agenda 03.02: Discussion on the Suggestions / Recommendations offered by the members of the first Governing Body meeting which was held on 18.02.2023.

The Chairman of the Academic Council Dr. J. Maheswaran(Principal) presented the Suggestions / Recommendations offered by the members of the first Governing Body meeting which was held on 18.02.2023 .

Suggestions / Recommendations related to Academics by the members during I Governing Body Meeting	Decisions / Actions taken	Suggestions / Recommendations / Remarks by the members during II Academic Council
Content overlapping in the syllabi should be avoided (PG with UG).	Incorporated in the Curriculum and Syllabi.	Approved
In the reference section, it is preferred to include video links of UG courses as given in the Tamil Nadu DoTE website.	Considered. DOTE Video links & NPTEL Video links can be published in the department web page along with Curriculum and Syllabi.	Approved
It was recommended to make journal publication mandatory to PG students.	All the BoS recommended to make Journal / Conference publications as Desirable and to encourage the students to publish their Project results/findings in reputed journal as an article and those students who are doing that can be honoured by providing higher grades in the particular course. It should not be made mandatory since it takes long time for publication. For PG programme 1 journal publication or 2 reputed conference publication is recommended. For UG programme 1 Conference	Accepted

	publication is recommended.	
--	-----------------------------	--

02.03. Presentation of the proposed curriculum and getting recommendation for approval for the III year detailed draft syllabi of both UG and PG Programmes for regulation 2022


3rd BOS meeting minutes

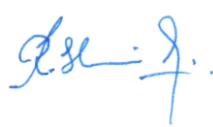




1. Include IoT in one of the subjects in the verticals.
2. Rearrange the units in the subject IC Engines and include B1 to B6 nomenclature in the syllabus.
3. In Electric Vehicle and Power Management subject include the topic battery swap.
4. Students should be motivated to do NPTEL courses instead of electives.
5. In Autonomous & Electric Vehicle Technology, update Unit IV and add automotive networking.
6. Change the title of Unit 1 in Advanced Vehicle Engineering as Electric Vehicles Architecture.
7. As far as possible use latest edition books as text books.

03.04. Ratification for including Naan Mudhalvan courses and Tamil courses as per the directions of Anna University & Government of Tamilnadu.

The BoS ratified the inclusion of the Naan Muthalvan courses and Tamil courses in the curriculum of UG program as per the directions of Anna University and Government of Tamilnadu.

Finally, The Chairman of BOS thanked the expert members and the faculty members for their valuable suggestions and support. Around 1.00 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, Tamilndau.	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)	
6.	Dr. G. Antony Miraculas, Associate Professor, Mechanical Engineering, St. Xaviers Catholic College of Engineering, Nagercoil - 629004	HOD Mechanical Engineering	



DEAN (ACADEMICS)
Dr. R.P. Anto Kumar



PRINCIPAL
Dr. J. Maheswaran