



FRANCIS XAVIERTM ENGINEERING COLLEGE

(An Autonomous Institution & ISO 9001:2015 Certified)

Minutes of the First Board of Studies Meeting

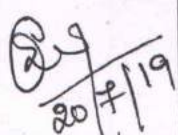
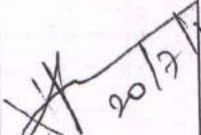
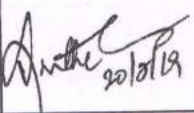
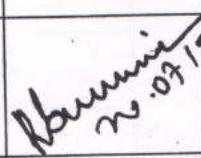
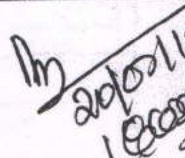
Date : 20.07.2019

Time : 10:30 am

Venue : DSRT Presentation Hall

The first Board of Studies Meeting of the Department of Mechanical Engineering was convened by Dr.Zeenathul Farida Abdul Gani, Professor and Head / Mechanical Engineering of Francis Xavier Engineering College in the DSRT Presentation Hall on 20th July, 2019 at 10:30am.

External Members present:

Sl. No.	Members as per UGC Norms	Members Nominated	Signature
1	Head of the Department concerned (Chairman)	Dr.Zeenathul Farida Abdul Gani Professor and Head Department of Mechanical Engineering Francis Xavier Engineering College Tirunelveli	 20/7/19
2	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Dr.A.Krishnaveni Associate Professor, Department of Mechanical Engineering, Government College of Engineering, Tirunelveli	 20/7/19
3	Two experts in the subject from outside the college nominated by the Academic Council	Dr.V.Senthil Kumar , Professor, Department of Production Engineering, NIT, Tiruchirapalli, TamilNadu	 20/7/19
		Dr.A.Ramesh , Professor, Department of Mechanical Engineering, IIT, Madras, Chennai - 600 036	- AB -
4	One representative from industry/corporate sector/allied area relating to placement	Mr.R.SrinivasaRaghavan AVP, Manufacturing, Alliance Tire Group, Tirunelveli.	 20.07.19
5	One Post Graduate meritorious aluminous nominated by the Principal	Mr.A.Arul Marcel Moshi Assistant Professor, Department of Mechanical Engineering, National Engineering College, Kovilpatti.	 20/07/19 20/7/19



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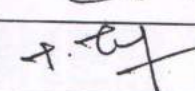
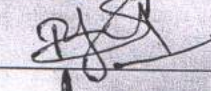

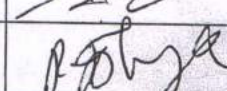
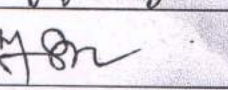
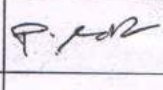
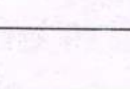
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The following member expressed their inability to attend the Bos Meeting.

Dr.A.Ramesh, Professor,
Department of Mechanical Engineering,
IIT, Madras, Chennai - 600 036

Internal Members Present:

Sl. No.	Name of the Member	Designation	Signature
1	Dr.Zeenathul Farida Abdul Gani	Professor/Mech	
2	Dr.I.NeethiManickam	Professor/Mech	
3	Dr.V.Velmurugan	Professor/Mech	
4	Dr.R.Samuel Hanson,	Assoc. Prof./Mech	
5	Dr.S.Joe Patrick Gnanaraj	Assoc. Prof./Mech	
6	Mr.M.Ayyanar Raja	Assoc. Prof./Mech	
7	Mr.K.Ariyanayagam	Assoc. Prof./Mech	
8	Mr.J.Y.ArthurJebaraj	AP/Mech	
9	Mr.S.ThanumalayaPerumal	AP/Mech	
10	Mr.G.Valramani	AP/Mech	
11	Mr.S.Sheik Sulaiman	AP/Mech	
12	Mr.U.Nainar	AP/Mech	
13	Mr.K.Robinston	AP/Mech	

14	Mr.N.Thanumoorthy	AP/Mech	
15	Mr.J.JermyJeba Samuel	AP/Mech	
16	Mrs.K.S.Maheswari	AP/Mech	
17	Mr.R.Jaison	AP/Mech	
18	Mr.R.Prabakaran	AP/Mech	
19	Mr.M.Muthukumar	AP/Mech	
20	Mr.S.Ashokraj	AP/Mech	
21	Mr.P.EbenezerSathish Paul	AP/Mech	
22	Mr.M.Saravanakumar	AP/Mech	
23	Mr.P.Sathish Kumar	AP/Mech	
24	Mr.S.Sasikumar	AP/Mech	

Sl. No.	EX OFFICIO MEMBERS
1	Principal, Francis Xavier Engineering College, Tirunelveli
2	Professor Academics, Francis Xavier Engineering College, Tirunelveli
3	Controller of Examinations, Francis Xavier Engineering College, Tirunelveli
4	Mr.J.DavidAyling, AP/English
5	Dr.K.Madhavan Pillai, Prof/Maths
6	Mrs.K.Gomathi, AP/Physics
7	Dr.R.Suman, Asso.Prof/Chemistry



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MINUTES OF THE MEETING

The Head of the department Dr.Zeenathul Farida Abdul Gani welcomed the members of Board of Studies and all the department faculty members. The introductions about the external members were given by Mr.K.Ariyanayagam. The Head of the department presented the curriculum and syllabi framed in their department.

Item 1.1: Curriculum and Syllabi for UG Mechanical Engineering Programme

The following queries and suggestions were raised by the external members

1. Dr.Senthil Kumar suggested that Physics can be offered in the first semester rather than having Statics and Dynamics in the first two semesters. He suggested having atomic physics, Optics, Laser, crystallography and electrodynamics in that course. Statics and Dynamics can be given as Engineering Mechanics
2. Mr.Arul Marcel Moshi suggested naming Statics and Dynamics as Mechanics of rigid bodies and Mechanics of Deformable bodies respectively for clarity about the scope of the course.
3. Dr.Senthil Kumar suggested incorporating the mathematics syllabus given in GATE in the Maths course offered in the first two semesters.
4. Dr.Senthil Kumar and Dr.Krishnaveni suggested to reduce the credits for English or to have English Lab as a non credit course to improve the proficiency of the students.
5. Dr.Senthil Kumar suggested having programmes in computer programming that is more logical and analytical.
6. Dr.Krishnaveni suggested having layer learning for Engineering Graphics with increased credit of 4. Dr.Senthil Kumar agreed upon that but insisted to have the same credit of 3.
7. Dr.Krishnaveni suggested to change the course titles to Kinematics of Machinery to Kinematics of Machines and Machine Design to Design of Machine Elements



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8. Mr. SrinivasaRaghavan found it good to have Polymer Technology in Elective list and he mentioned that he will support in framing the syllabus and deputing staff for teaching that subject.
9. Dr.Senthil Kumar and Mr.SrinivasaRaghavan suggested keeping Professional Ethics, (tailor made courses on) Environment & Safety and Economics & Foreign trade as Professional Core under HS category so that the credentials needed under HS can be attained.
10. Dr.Senthil Kumar suggested reducing the credit for Design and Fabrication to 2.
11. Dr.Senthil Kumar and Dr.Krishnaveni suggested giving credits to Internships with proper evaluation.
12. Dr.Senthil Kumar instructed to use the recent and new reference and text books, published after 2010 for advanced courses.
13. Dr.Senthil Kumar and Mr. Moshi insisted on having the course outcomes based on Blooms Taxonomy
14. Dr.Krishnaveni felt that the strength of thermal courses in elective list as minimum and suggested to increase the number of thermal based electives
15. Dr.Senthil Kumar and Dr.Krishnaveni suggested integrating FEA and Analysis lab as one course.
16. Mr. Moshi suggested to use Virtual learning offered by Amirtha University
17. Dr.Krishnaveni suggested to include online learning courses like spoken tutorial offered by IITB and some other open sources for online learning
18. All the members suggested having uniform with the number of COs.
19. Dr.Krishnaveni suggested to refer Anna University CEG syllabus for further reference
20. All the members suggested to have a separate course on Engineering Materials and Metallurgy



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21. Dr.Senthil Kumar suggested to have the following Electives

1. Reliability Engineering
2. Laser Processing
3. Micro / Nano Machining
4. Product Development
5. Lean Manufacturing
6. Combustion Technology
7. Alternate Fuels
8. Industrial Automation 4.0

22. Dr. Senthil kumar & Dr.Krishnaveni suggested having comprehension in the VII semester.

Item 1.2: Curriculum and Syllabi for PG Mechanical Engineering Programme

The following queries and suggestions were raised by the external members

1. Mr. Srinivasa Raghavan suggested including 45001:2018 instead of OHSAS as OHSAS is currently replaced by ISO standards.
2. Mr. Srinivasa Raghavan suggested to add "Behaviour Based safety" as a course
3. Dr. V. Senthil Kumar suggested including "Safety in Engineering Industry" instead of "Plant Layout and Material Handling" as core course.
4. Dr. Krishnaveni suggested few modifications in the course outcomes of Reliability Engineering.
5. Dr. Krishnaveni suggested to refine the course objectives of Work study and Ergonomics.
6. Dr. Krishnaveni suggested to include more references for the course OHSAS 18000, ISO 14000 AND ISO 9000.



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Item 1.3: Industry specific course

1. Mr. Srinivasa Raghavan found it good to have Polymer Technology in Elective list and he mentioned that he will support in framing the syllabus and deputing staff for teaching that subject.
2. He also added that he can support with personnel to teach courses like TQM, PPCE, PPC offered for UG and also some courses in PG

Item 1.4: Value added course

1. Dr.Zeenath asked for suggestion in VAC and Dr.Senthil Kumar suggested having MatLab, Statistical software and Analysis software like Deform, Fluent, Abacus, Comsol and modelling software like Creo.
2. Dr.Senthil Kumar suggested to make the students to know about SETSCO courses and he also mentioned that the course fee as slightly higher.

The meeting came to an end with a thank you note by the Head of the Department.

Chairman
Board of Studies
Department of Mechanical Engineering