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## Department of Mechanical Engineering

#### Sixth Board of Studies meeting

Date | Time:- 20.01.2022 | 1.30 pm to 03.30 pm

Platform:- Google Meet

Link particulars:-

https://meet.google.com/hpz-ghtj-zce

Chaired by

Dr.I.NeethiManickam,
Professor and Head of the Department, FXEC.

**Members Present: -**

- 1.Dr.A. Krishnaveni, Professor, GCE, Tirunelveli, Anna University Nominee
- 2.Dr.R. Sudhakarpandian, Associate Professor, VIT University, Expert Member Other than Parent University
- 3. Mr. Arul Marcel Moshi M.E., (Ph.D), Assistant Professor, NEC ,(Alumini

#### **Internal Members**

- 1. Dr.I.Neethi Manickam, Professor | Mechanical | FXEC,
- 2. Dr.L.R Priya, Professor(Academics)| ECE | FXEC
- 3. Dr.G.Rajakumar, Professor(CoE))| ECE | FXEC
- 4. Dr. Zeenathul Farida Abdul Gani, Professor | Mechanical | FXEC,
- 5. Dr. R. Samuel Hansen, Professor | Mechanical | FXEC,
- 6. Dr.M.Kannan, Professor | Mechanical | FXEC
- 7. Dr.K.Senthilkumar, Associate Professor | Mechanical | FXEC.
- 8. Dr.S.Balakrishnan, Assistant Professor | Mechanical | FXEC
- 9. Dr.Anix Joel Singh, Assistant Professor | Mechanical | FXEC
- 10. Dr.R.K.A Bhalji, Assistant Professor | Mechanical | FXEC
- 11. Dr.K.Vinukumar, Assistant Professor | Mechanical | FXEC
- 12. Mr.M.Ayyanar Raja, Assistant Professor | Mechanical | FXEC,
- 13. Mr.K.Ariyanayagm, Assistant Professor | Mechanical | FXEC,
- 14. Mr.S. Thanumalaya Perumal, Assistant Professor | Mechanical | FXEC,
- 15. Mr. K.Robinston Jeyasingh, Assistant Professor | Mechanical | FXEC,
- 16. Mr. S.Sheikh Sulaiman, Assistant Professor | Mechanical | FXEC.
- 17. Mr. J.Jeremy Jeba Samuel, Assistant Professor | Mechanical | FXEC.
- 18. Mr.R.Rahesh, Assistant Professor | Mechanical | FXEC,
- 19. Mr.M.Saravana Kumar, Assistant Professor | Mechanical | FXEC.
- 20. Mr.M.Subash Narendra, Assistant Professor | Mechanical | FXEC



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## Department of Mechanical Engineering

#### Agenda

Item No.	Particulars
Item: 1	R2021 - Revision of syllabus upto 4th Semester
Item : 2	R2021 - Introduction of syllabus for 5th semester Professional Core
	Courses
Item: 3	R2021 - Introduction of syllabus for 6th semester Professional Core Courses
Item : 4	R2019 - M.E (ISE) Syllabus upto 4th Sem - Revision required if any

# VI - Board of Studies (BoS) Meeting Minutes

S.No.	Minutes – Comments
Item : 11	R2021 - Revision of syllabus upto 4th Semester
1.1	In Engineering Thermodynamics Course, under the Unit 3 Properties of Pure Substances, the cycle improvement methods topics can be renamed as Cycle Efficiency Improvement Methods.
1.2	In Engineering Materials and Metallurgy Course, under the Unit 2 Heat Treatment, instead of mentioning as Surface treatment process, techniques which are planned to taught to the studentsin surface treatment process can be mentioned.
1.3	In Fundamentals of Electrical and electronics course, Unit 4 Electronic Circuits are replaced with Electrical drives and characteristics unit that is a prerequisite for mechatronics course.
Item: 2	R2021 - Introduction of syllabus for 5th semester Professional Core Courses
	Minutes – Comments
S.No.	
2.1	In Dynamics of Machine Course, CO-PO Mapping and Concept Mapping need to revised.
2.2	In Mechatronics System Course, unit 1 title can be renamed to Introduction to Mechatronics and Hydraulic System, instead of Introduction and Hydraulic



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CONTRACT WHERE BACKERS 2011 & 12091 OF the LICEC ACT. 1850

## Department of Mechanical Engineering System In CAD/CAM Course, the 9th lab experiment "Demonstration of parametric 2.3 modelling using simple components" can be updated as "Demonstration of equation driven modelling of simple components (Connecting Rod, Spur Gear). Item: 3R2021 - Introduction of syllabus for 6th semester Professional Core Courses **Minutes - Comments** S.No. In Sixth Semester, Applications of Finite Element Analysis course title can be 3.1 changed to Finite Element Analysis In Total Quality Management and Reliability Course, Occupation Safety and Health Administration topic can be removed from the Unit 1 - Quality: Introductory Concepts. In Total Quality Management and Reliability course, Corrective and Preventive actions with examples topic from unit 2 TQM Techniques can be updated as 3.2 corrective and preventive maintenance actions with examples. In Total Quality Management and Reliability Course, the Course Outcome 5thstatement "Design systems with a focus on enhancing reliability" can be reframed Since the unit contents are introductory concepts of reliability. In Finite Element Analysis Laboratory Course, Under Static Structural Analysis - Stress analysis of axisymmetric components can be updated with specific axisymmetric components 3.3 In Finite Element Analysis Laboratory Course, Suggestions given for to include specific mechanical parts in Modal Analysis of a Mechanical parts experiment. Item: 4 R2019 - M.E (ISE) Syllabus upto 4th Sem - Revision required if any In M.E (ISE) syllabus upto 4th Semester, no revision has been proposed

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Chairman, **Board of Studies** 



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## Department of Mechanical Engineering

# V - Board of Studies Meeting Minutes And Action Plan

S.No	Recommendation and comments	Action	Reference
1.	Assessment method for minor professional course need to be mentioned in the syllabus.  (For Example Number of Assessment and FATs)	Assessment method for minor professional courses mentioned in the syllabus.	The changes were made in R2019 Additive Manufacturing Syllabus
2.	The course category for additive manufacturing suggested as "AM".	The course codes are changed as 19MEAM01, 19MEAM02,19MEAM03, 19MEAM05	The changes were made in R2019 Additive Manufacturing Syllabus
3.	The syllabus of industrial frontier tools was presented and accepted by members and recommended for reframing the assessment methods.	Reframed the assessment methods	The changes were made in R2019 Syllabus of Industrial frontier tools
4.	Recommended offering both C language and python language	C programming included in I semester (3 credit) Python included in II semester (3 credit)	The changes were made in R2021 Syllabus. (Page No 9)
5.	Suggested incorporating model questions for the COs to clarify their blooms (cognition) level.	Model questions for COs and Blooms level included.	The changes were made in R2021 Syllabus.
6.	Computer Aided Engineering Graphics course appears to be excessive in theory contents and the hour allocation are disproportionate.	Presently LTP 204	The changes were made in R2021 Syllabus. (Page No 93)
7.	Suggestive assessment components for computer engineering graphics course are 30% from assignments, 20% Model Exam, 50 % ESE Practical	Included	The changes were made in R2021 Syllabus. (Page No 93)

## Department of Mechanical Engineering

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8.	In Engineering Practices lab, Civil to be provided with proportionate mixture of concrete for building construction	Study of basic construction materials, masonry and concretes - included	The changes were made in R2021 Syllabus. (Page No 58)
9	Engineering Thermodynamics objectives to be reframed along with outcomes. Also, Rankine cycle to be included in the Unit III.	Included	The changes were made in R2021 Syllabus.
10	Surface treatment topics to be included in Engineering Materials and Metallurgy.	Included in Unit - II	The changes were made in R2021 Syllabus.
11	The syllabus for Fluid Mechanics and Machinery course can be framed by considering compressible flow also.	In FMM, Compressible flow could not be incorporated into syllabus.	
12	In Strength of Materials course, the Thick cylinder topic to be included.	Included in Unit - V	The changes were made in R2021 Syllabus.
13	Refrigeration topic to be included in Unit V of Thermal Engineering course.	Included	The changes were made in R2021 Syllabus.
14	Demonstration of turbine and steam generator to be included in Thermal Engineering laboratory course.	Since the experimental setup is available, experiments are added.	The changes were made in R2021 Syllabus.
15	The order of units to be reshuffled with Numerical Methods topics at first, followed by Probability and Statistics topics and finally DOE topics.	Changed accordingly in the course Probability and Statistical Analysis	The changes were made in R2021 Syllabus.
16	Inclusion of course creator name in the syllabus to be considered for bringing more accountability.	Included	Course Designers included for all courses.



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## Department of Mechanical Engineering

## Minutes of the Sixth Board of Studies meeting Approval

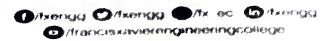
The meeting minutes of Sixth Board of Studies of the Department of Mechanical Engineering, Francis Xavier Engineering, Tirunelvelli, held on 20-01-2022 at 1.30 pm is approved.

#### Members:

Sl.No.	Members as per UGC norms	Members nominated	Signature
1.	Head of the Department concerned (Chairman)	Dr. I. Neethi Manickam Professor and Head Department of Mechanical Engineering Francis Xavier Engineering College Tirunelveli	D.NM
2.	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Department of Mechanical Engineering,	A. KRISHNAVENI, M.E. Ph.D., MIST Professor (CA\$) ept. of Mechanical Engineering Govt. College of Engineering Titunelveli-627 007.
3.	Experts in the subject from outside the college nominated by the academic council	Dr. V. Senthil Kumar, Associate Professor, Department of Production Engineering, NIT, Tiruchirapalli Tamilnadu.	
4.	Experts in the subject from outside the college nominated by the academic council	Dr. R. R.Sudhakara Pandian, Professor, School of Mechanical Engineering, VIT, Vellore	
5.	One representative from industry / corporate sector / allied area relating to placement	Mr. R. Srinivasa Raghavan, AVP, Manufacturing, Alliance Tire Group, Tirunelveli.	
6.	One Post Graduate meritorious aluminous nominated by the Principal	Mr. A. Arul Marcel Moshi Assistant Professor, Department of Mechanical Engineering, National Engineering College, Kovilpatti.	



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## Department of Mechanical Engineering

## Minutes of the Sixth Board of Studies meeting Approval

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1.	Head of the Department concerned (Chairman)	Dr.I.Neethi Manickam Professor and Head Department of Mechanical Engineering Francis Xavier Engineering College Tirunelveli	SNM
2.	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Dr.A.Krishnaveni Professor Department of Mechanical Engineering, Government College of Engineering, Tirunelveli.	
3.	Experts in the subject from outside the college nominated by the academic council	Dr.V.Senthil Kumar, Associate Professor, Department of Production Engineering, NIT, Tiruchirapalli Tamilnadu.	
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5.	One representative from industry / corporate sector / allied area relating to placement	Mr.R.Srinivasa Raghavan, AVP, Manufacturing, Alliance Tire Group, Tirunelveli.	
6.	One Post Graduate meritorious aluminous nominated by the Principal	Mr.A.Arul Marcel Moshi Assistant Professor, Department of Mechanical Engineering, National Engineering College, Kovilpatti	In Room on



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# Department of Mechanical Engineering

#### **MEMBERS PRESENT**

l.No.	Members as per UGC norms	Members nominated	Signature
1.	Head of the Department concerned (Chairman)	Dr. I. Neethi Manickam Professor and Head Department of Mechanical Engineering Francis Xavier Engineering College Tirunelveli	3.NM
2.	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Department of Mechanical	KRISHNAVENT, ME Professor CAS of Macingalical Envi. Contege of Engi Turnelveli-627
3.	Experts in the subject from outside the college nominated by the academic council	Dr.V.Senthil Kumar, Associate Professor, Department of Production Engineering, NIT, Tiruchirapalli Tamilnadu.	ABSENT
4.	Experts in the subject from outside the college nominated by the academic council	Dr.R.R.Sudhakara Pandian, Professor, School of Mechanical Engineering, VIT, Vellore	
5.	One representative from industry / corporate sector / allied area relating to placement	Mr.R.Srinivasa Raghavan, AVP, Manufacturing, Alliance Tire Group, Tirunelveli.	ABSENT
6.	One Post Graduate meritorious aluminous nominated by the Principal	Mr.A.Arul Marcel Moshi Assistant Professor, Department of Mechanical Engineering, National Engineering College, Kovilpatti.	

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#### Department of Mechanical Engineering

## **MEMBERS PRESENT**

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# Department of Mechanical Engineering

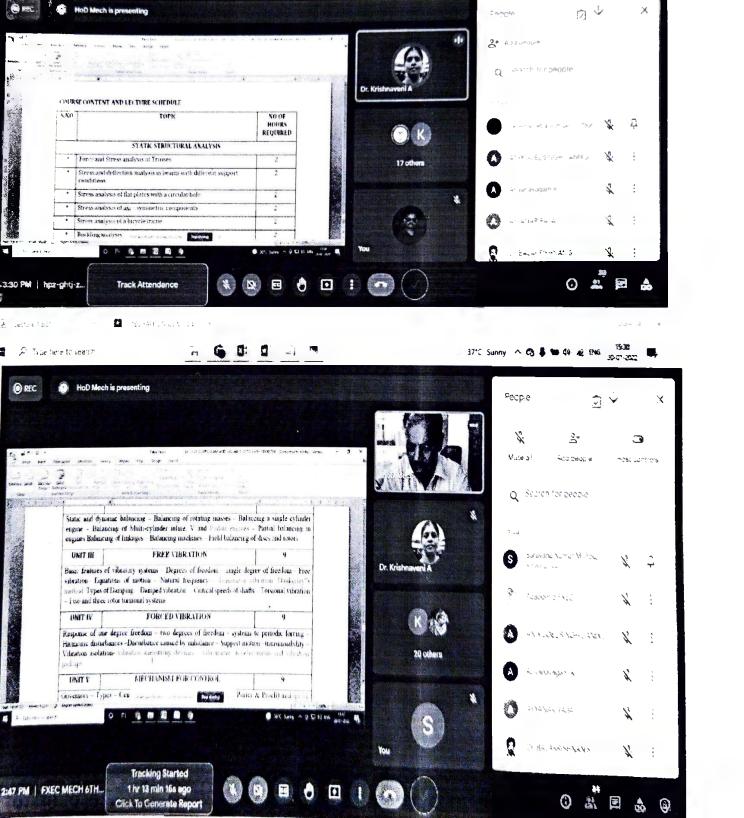
# **Members Present**

S.no	Name of the Faculty Members	Designation/Department	Signature
1	Dr.L.R Priya		
		Professor(Academics) /ECE	20/1/22
2	Dr.G.Rajakumar	Professor (COE) / ECE	Shill a
3	Dr. Zeenathul Farida Abdul Gani	Professor   Mechanical	(2) J
4	Dr. R. Samuel Hansen	Professor   Mechanical	C Sine
5	Dr.M.Kannan	Professor   Mechanical	Hans
6	Dr.K.Senthilkumar	Associate Professor	
		Mechanical	
7	Dr.S.Balakrishnan	Assistant Professor	20
		Mechanical	8.16
8	Dr.Anix Joel Singh	Assistant Professor	91
		Mechanical	And
9	Dr.R.K.A Bhalji	Assistant Professor	2117
		Mechanical	1405
10	Dr.K.Vinukumar	Assistant Professor	
10		Mechanical	マンナ
11	Mr.M.Ayyanar Raja	Associate Professor	1.
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12	Mr.K.Ariyanayagm	Associate Professor	1.
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14	Mr. K.Robinston Jeyasingh	Assistant Professor   Mechanical	O. usus
15	Mr. S.Sheikh Sulaiman	Assistant Professor	1
19		Mechanical	VI.
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## Department of Mechanical Engineering

16	Mr. J.Jeremy Jeba Samuel	Assistant Professor   Mechanical	ly
17	Mr.R.Rahesh	Assistant Professor   Mechanical	Phineer
18	Mr.M.Saravana Kumar	Assistant Professor   Mechanical	MS-monty.
19	Mr.M.Subash Narendra	Assistant Professor   Mechanical	(34). ·



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meeting Name: hpz-ahti-zca	Date: 20-Jan-2022

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Attendance Tracking Started At 🔠 13:34:07

Attendance Tracking Stopped At 🔠 15:30:43

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Humber Of People Attended More Than 65% Of Meeting 19

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1	ACADEMIC FXEC	28 min 35s	25%
2	ANIX JOEL SINGH , ANIX JOEL SINGH J	47 min 11s	41%
3	ARIYANAYAGAM K	1 bc 51 min 57s	97%
4	AYYANAR RAJA	1 bc 28 min 47s	77%
5	DR. BALAKRISHNAN S	1 <b>bc 54 min</b> 27s	99%
6	DR. KRISHNAVENI A	1 <b>br 56</b> min 17s	100%
7	DR R.K. <u>A.SHALAJI</u>	1 hc 56 min 17s	100%
8	HOD MECH	1 bx 56 min 8s	100%
9	JEREMY JEBA SAMUEL J	1 bx 56 min 16s	100%
10	KANNAN M KANNAN M	1 bc 49 min 8s	94%
11	MOSHI MARSHAL MECH	1 <b>by 56 m</b> in 13s	100%
12	RAHESH R	1 <b>br. 51 m</b> in 20s	95%
13	RAJAKUMAR G	23 min 16s	21%
14	ROBINSTON JEYASINGH K	1 <b>bt</b> 47 min 33s	93%
15	SAMUEL HANSEN R	1 bx 54 min 44s	99%
16	SARAVANA KUMAR M	1 <b>b</b> r 56 min 17s	100%



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## **Department of Mechanical Engineering**

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