

MINUTES OF THE 40<sup>TH</sup> MEETING OF THE  
BOARD OF STUDIES OF MECHANICAL ENGINEERING

19-11-2022

The minutes of the meeting of the Board of Studies of Mechanical Engineering held on 19-11-2022 at 10:30 AM in Main Building AIC Conference Hall.

The following members were present in the meeting.

SL.NO	NAME	DESIGNATION	SIGNATURE	SL.NO	NAME
1.	Dr. N. Rajam Ramaswamy	Chairman		22.	Dr. C. V
2.	Dr. D. Noorullah	University Nominee (UH&M)		23.	Dr. P. M
3.	Dr. P.K. Palani	Expert Member - Academic	Pre-Occupied	24.	Dr. S. S
4.	Dr. P.R. Thyla	Expert Member - Academic		25.	Dr. D. P.
5.	Mr. A.S. Shiva Kumaran	Expert Member - Industry		26.	Dr. P. M
6.	Mr. N. Sampath Kumar	Expert Member - Industry	Pre-Occupied	27.	Dr. R. V
7.	Dr. K. Marimuthu	Member		28.	Dr. G. B
8.	Dr. T. Sridhar	Member		29.	Mr. R. S
9.	Dr. R. Rajesh	Member		30.	Dr. C. M
10.	Dr. G. Surehkannan	Member		31.	Dr. H. S
11.	Dr. A.S. Krishnan	Member		32.	Dr. S. V
12.	Dr. G. Sivakumar	Member		33.	Dr. R. S
13.	Mr. P. Ramakrishnan	Member		34.	Mr. G.
14.	Dr. M. Velliangiri	Member			
15.	Dr. A. Suganya Priyadarshini	Member			
16.	Mr. M. Karthikeyan	Member			
17.	Dr. C. Balaj Ayyanar	Member			
18.	Mr. K. Karthik	Member			
19.	Dr. A. Karthikeyan	Member			
20.	Dr. A. Thangaraju	Member			
21.	Dr. S. Balamurugan	Member			

chain  
Assoc  
Inchr  
Insti  
in M  
Rama  
in A  
to P  
follw  
and  
Iter  
follw  
of

THE	SL. NO	NAME	DESIGNATION	SIGNATURE
ERINGI	22.	Dr. C. Vivek	MEMBER	
19-11-2022	23.	Dr. P. Mohan	Member	
	24.	Dr. S. Selvam	Member	
ard of Studies	25.	Dr. D. P. Sam Solomon	Member	
at 10:30 AM in	26.	Dr. P. Manivel	Member	
	27.	Dr. R. Vishnu	Member	
the meeting.	28.	Dr. G. Balamurugan	Member	
	29.	Mr. R. S. Mohankumar	Member	Pre-Occupied.
	30.	Dr. C. Manivannan	Member	
SIGNATURE	31.	Dr. H. Sivarathinamborthy	Member	
Madhukumar	32.	Dr. S. Vellingiri	Member	
Pre-Occupied.	33.	Dr. R. Sathiskumar	Member	
PR	34.	Mr. G. Ramkumar	Member	

The 40<sup>th</sup> Board of Studies meeting chaired by Dr. N. Rajam Ramasamy, Associate Professor and Head of Department - Incharge, Mechanical Engineering, Coimbatore Institute of Technology, was held on 19.11.2022 in Main Block Conference Hall. Dr. N. Rajam Ramasamy welcomed the members (attached in Annexure) and invited Dr. A. S. Krishnan to Present the agenda of the meeting. The following table lists the items resolved and approved:

Item No: 1 :- Resolved and approved the following vision of the best Department Of Mechanical Engineering

The department aims to become one of the best mechanical engineering departments in the country in preparing engineers capable of working innovatively and creatively towards a better world.

Item NO: 2:- Resolved and approved the following mission of the Department of Mechanical Engineering

1. Impart fundamental knowledge in Mechanical engineering through effective teaching - learning methods.
2. Prepare Students to address current and impending challenges faced by our nation and world
3. Provide an environment to foster and nurture innovation and research.

Item NO: 3:- Resolved and it be a recommendation that the following NPTEL Courses be included as Professional Electives for BE Program in Mechanical Engineering:

1. 19MEE44 - Fundamentals of Automotive Systems
2. 19MEE45 - Product Design and Manufacturing
3. 19MEE46 - The Joy of Computing (with) python.
4. 19MEE47 - Introduction to Aerospace Engineering Flight
5. 19MEE48 - Work System Design
6. 19MEE49 - Classical Sociological Theory
7. 19MEE50 - Industrial Safety Engineering
8. 19MEE51 - Data Structure and Algorithms - using JAVA

Item NO: 4:- Resolved and it be a recommendation that the following

Item NO

the re  
Mecha  
course  
Progr  
Sugge  
for N  
Choc  
Socio  
and t  
repor  
Dr. A.  
Course  
Adva  
cupp

addir

NPTEL Courses be included as Professional Electives for ME Program in Advanced Manufacturing Technology.

1. Techniques of Material characterization
2. Metal Additive Manufacturing.

Item No: 5:- Resolved and it be a recommendation that the following component be added to Experiments on welding in 19MEL47B (Manufacturing Process Laboratory)

1. Identification and measurement of welding defects in specimen weld beads and workpieces.

Discussions on the following points took place

1. Dr. A. S. Krishnan Presented the revised vision and mission of the B.E Mechanical Engineering Program and NPTEL courses for the BE Mechanical Engineering Program. Dr. P. R. Thyia and Dr. Noorullah suggested having different course codes for NPTEL courses and also requested to check the title of the course classical Sociological. The same has been checked and the correct title of the course is reported as classical Sociological Theory. Dr. A. S. Krishnan also Presented NPTEL Courses Proposed for the M.E Program in Advanced Manufacturing Technology for approval of the committee.

2. Dr. C. Manivanan Proposed adding a new experiment in the

19MEL47B Manufacturing Process lab for 2019 Regulation Dr. P. R. Thyra enquired about the facilities available for the same, and Dr. Noorullah sought for justification of the addition. Dr. C. Manivannan confirmed the facilities required and the significance of the investigation from an industry perspective.

3. Dr. A. S. Krishnan presented the R2019 curriculum of the BE Program in Mechanical to seek suggestions for construction of the curriculum of R2023. Dr. Noorullah suggested that the Physics for Mechanical Engineers' course be taught by a faculty member from the department of Mechanical Engineering itself. He also suggested implementing Python programming.

4. Dr. P. R. Thyra suggested correcting 0.5 credit for two laboratory course hours as one credit course. Dr. P. R. Thyra also asked to ensure that lab classes are handled in the same semester for all the students.

5. Dr. P. R. Thyra suggested mentioning two weeks of mandatory internship in the curriculum with 0 contact hours and one credit for the internship. Dr. P. Thyra suggested having 0 credits for Personality Skills, which is not counted for GPA. Dr. Noorullah and Dr. P. R. Thyra urged to frame the curriculum with credit distribution for different categories

equi:  
Modr  
6. T  
Inte  
distri  
in th  
Four  
Nume  
PROP  
Thylo  
the  
revis  
7. D  
havir  
to be  
asko  
Gra  
Send  
8. D  
havir  
and  
Cour  
9. E  
OF  
agr  
test  
10. J  
the  
and  
fac  
Mec  
tha:

is lab for  
enquired  
for the  
t for  
Dr. C.  
ilities  
of the  
perspective  
the R2019  
in Mechanical  
ction of  
Noorullah  
Mechanical  
a faculty  
Mechanical  
ggested  
ning  
recting  
course  
P. R. Thyla  
lasses  
for all  
oning two  
the  
and one  
Thylo.  
Personality  
GPA.  
a urged  
th Credit  
gories

equivalent to Anna university and AICTE Model curriculum.

6. The Chairman Proposed to drop the course Introduction to Mechanical Sciences and distribute its contents to courses on physics in the first and second semester. Further four courses on Mathematics, including Numerical Methods and Statistics, were Proposed for the 2023 Curriculum Dr. P. R. Thyla and Dr. Noorullah suggested sending the Proposed syllabus and curriculum for review.

7. Dr. P. R. Thyla and Dr. Noorullah Suggested having total Credits of Professional Electives to be not less than 18. Dr. P. R. Thyla also asked to frame the syllabus for Engineering Graphics I and Engineering Graphics II and Send it for review.

8. Dr. Sridhar Thyageswaran Suggested having a theory course on Engineering Materials and Metallurgy and its respective laboratory Course in the third semester.

9. Expert members discussed the evaluation of one credit course, and the members agreed to have a continuous assessment test at the end for evaluation.

10. Mr. K. Karthik. Proposed to have the course on Strength of Materials and Fluid Mechanics be taught by the faculty members from the Dept. of Mech. Engineering. The Chairman responded that the suggestion would be taken

into due consideration.

11. Dr. K. Marimuthu suggested renaming the course Hydraulics and Pneumatics as Fluid Power Control or Fluid Power Systems. He further suggested having the list of courses in each semester in the order of highest to lowest credits.

12. Dr. K. Marimuthu and Dr. C. Balaji Ayyanar suggested having Design of Machine elements and Design of Transmission Systems as two separate courses in the 5<sup>th</sup> and 6<sup>th</sup> semesters respectively. The idea was supported by expert members too after a discussion on the contents of the courses.

13. Mr. G. Ramkumar proposed having an exclusive course on Mechatronics in the 6<sup>th</sup> semester. Instead of combining it with the course on control theory.

Dr. P. R. Thyla and Dr. K. Marimuthu suggested having the course on Mechatronics as a Professional Core course to be offered along with the laboratory course on mechatronics. Control Theory was recommended to be offered as a professional elective course.

14. Dr. P. R. Thyla and Dr. Noorullah suggested having the title of project work course to be in accordance with Anna University. Prof. K. Marimuthu suggested having a minimum of 10 credits for the

main

Secor

15. D

Course

as a

curr

it. T

to c

Of c

Stre

it fi

16. M

the

prof

curr

17. D

offe

in a

sugg

for

18. M

labe

into

for

19. D

sugg

dra

Ses

for

20.

the

Dr

main project work, and expert members seconded the same.

15. Dr. S. Balamurugan Proposed to have the course on Refrigeration and Air Conditioning as a professional core course in 2023 curriculum and expert members discussed it. The Chairman suggested Dr. S. Balamurugan to develop the framework and syllabi of core and elective courses of thermal stream in the 2023 curriculum and present it for a review

16. Mr. A. S. Shivakumaran Proposed to have the course Alternative Energy as a professional core course in the 2023 Curriculum.

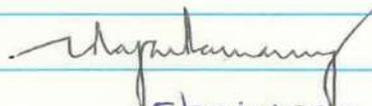
17. Dr. Sridhar Thyageswaran Proposed to offer the course on Finite Element Analysis in an earlier semester. Prof. P. R. Thyala suggested having a laboratory component for this course.

18. Mr. K. Karthick Proposed to split the laboratory course on Manufacturing Process into two semesters as the contact hours for each batch are less than the required.

19. Dr. P. R. Thyala and Dr. Sridhar Thyageswaran suggested introduction of computer aided drawing in the first year. After a few sessions on manual drafting initially for the course on Engineering Graphics

20. Dr. P. R. Thyala suggested renaming the course on computer-aided Machine Drawing as Machine Drawing.

21. The members agreed to offer their suggestion on the contents of the courses.
22. The chairman proposed the vote of Thanks and concluded the meeting.

  
Chairman

Board of Studies  
Dr. N. Rajam Ramasamy, Ph.D.,  
Head i/c,  
Department of Mechanical Engineering,  
Coimbatore Institute of Technology,  
Coimbatore - 641 014. INDIA.