Department of Mechanical Engineering

MINUTES of 16th Meeting of the Board of Studies held on 27th November, 2021 at 10.00 a.m. (Online mode)
Google meet Link: meet.google.com/owz-ummz-mde

Venue: Seminar Hall, Department of Mechanical Engineering, National Engineering College

National Engineering College, K.R.Nagar, Kovilpatti - 628503 (An Autonomous Institution -Affiliated to Anna University, Chennai)

16th Board of Studies Meeting - Mechanical Engineering

Venue: Seminar Hall, Department of Mechanical Engineering, National Engineering College

Date & Time: 27.11.2021 & 10.00 a.m.

Online Google Meet Link: meet.google.com/owz-ummz-mde

AGENDA

BoS / MECH16.1	:		ne address and Opening Remarks by Chairman, of studies in the department of Mechanical ering	
BoS / MECH16.2	:	Confirmation of the Minutes of the 15 th meeting of Board of Studies in the department of Mechanical Engineering held on June 26, 2021 and Action taken report of 15 th meeting of Board of Studies		
BoS / MECH16.3	:	Business brought forward by the Chairman, Board of studies		
		16.3.1	Introduction of Specialization courses, Conduct of Examination - ODD semester 2021-2022 for UG and PG Programmes and Examination Reforms Syllabus for Robotics Specialization courses - B.E. Mechanical Engineering Programme under Regulation 2019	
		16.3.3	Syllabus for "Product Life Cycle Management" and revision of "Product Development Laboratory" as an integrated course – B.E. Mechanical Engineering Programme under Regulation 2019.	
		16.3.4	Credit transfer for open online courses other than NPTEL (like Udemy, Coursera etc.,) for UG and PG programmes under Regulation 2019.	
BoS / MECH16.4	:	Suggestions given by the BOS Members		
BoS / MECH16.5	:	Any other items		

National Engineering College, K.R.Nagar, Kovilpatti – 628 503

(An Autonomous Institution - Affiliated to Anna University, Chennai)

F. No. 1-1/NEC/ MECH

27th November, 2021

Dear Sir/Madam,

Sub: Minutes of the 16th Meeting of the Board of studies in the Mechanical Engineering - Reg.

Kindly find attached herewith the Minutes of the 16th Meeting of Board of studies of the Mechanical Engineering of the National Engineering College, K.R.Nagar, Kovilpatti – 628503 held on 27th November 2021 at 10.00 a.m. (Online mode) in Seminar Hall, Department of Mechanical Engineering, National Engineering college. Hard copy of the Minutes is also being sent to you by speed post.

It is requested that comments on the Minutes, if any, may please be sent by email at hodmech@nec.edu.in or by post, at the earliest. If no comments are received, within ten days, the Minutes shall be taken as confirmed. With Kind Regards,

Yours Sincerely.

(Dr.K.Manisekar)

Department of Mechanical Engineering

MINUTES OF THE MEETING

The 16th Meeting of the Board of studies of the Mechanical Engineering was held on 27th November 2021 at 10.00 a.m. (Online mode - Google Meet Link: meet.google.com/owz-ummz-mde) in the Seminar Hall, Department of Mechanical Engineering, National Engineering College, K.R.Nagar, Kovilpatti – 628 503

1. The following members were present

1.	Dr. K.Manisekar, Professor & Head	Chairman
2.	Dr. S.Iyah Raja, Asso. Professor	
3.	Dr. D.Venkat Kumar, Asso. Professor	
4.	Dr. M.Kathiresan, Asso. Professor	
5.	Dr. R.Harichandran, Asso. Professor	
6.	Dr. I.Sankar, Asst.Professor (S.G)	
7.	Dr. D.Vignesh Kumar, Asst. Prof. (S.G)	
8.	Dr. P.Ramanan, Asst. Professor (S.G)	
9.	Dr. F.Michael Thomas Rex, Asst. Prof. (S.G)	
10.	Mr. B.Prince Abraham, Asst. Professor	2 11
11.	Mr. S.R.Sundara Bharathi, Asst. Professor	Internal
12.	Mr. P.Samuel Ponraj, Asst. Professor	Members
13.	Mr. A.Andrews, Asst. Professor	
14.	Dr. P.Hariharasakthisudhan, Asst. Prof. (S.G)	
15.	Mr. K.Thoufiq Mohammed, Asst. Professor	
16.	Mr. M.Vivekanandan, Adjunct Faculty	
17.	Mr. C.Suresh Kumar, Asst. Professor	
18.	Mr. C.Veera Ajay, Asst. Professor	
19.	Dr. W.Beno Wincy, Asst. Professor	
20.	Dr. N.Karthikeyan, Asst. Professor	
21.	Dr. G.Kumaresan Deputy Director (Research) & Associate Professor Institute for Energy Studies, CEG, Anna University, Chennai	Academic Experts

22.	DrIng. M. Duraiselvam	
	Professor / Production Engineering,	
	National Institute of Technology, Trichy	
23.	Dr.A.Arockiarajan	
	Professor / Applied Mechanics,	
	Indian Institute of Technology, Chennai	
24.	Dr. K. Murugan	Meritorious
	Scientist -E,	Alumnus
	Centre for Sol-Gel coatings,	Nominated by
	ARCI, Hyderabad – 500 005, Telangana	the Principal
25.	Mr. R. Kanda Subburaj	
	Chief Engineer, Project Controls,	
	AMEC Foster Wheeler India Pvt. Ltd, Chennai	
26.	Mr. P. Muniyandi,	
	Principal Scientific Officer,	
	Controller of Quality Assurance,	
	Bharat Earth Movers Ltd.,	
	New Thippasandra, Bangaluru - 56007	Industrial
27.	Mr. P. Sriram,	Experts
	Joint Executive President,	
	Ultratech in Aditya Birla Group,	
	Pune, Maharastra.	
28.	Mr. Sivaram Sundaram,	
	Senior Director,	
	Comcast India Engineering Centre,	
	Thoraipakkam, Chennai - 97	
29.	Mr. J. Sam Joebin, IV Year Student	Student
30.	Mr. X.Cheselton, IV Year Student	Members

 The following University Nominee Dr.D.Mohanlal, Professor, Department of Mechanical Engineering, Anna University, Chennai member could not attend the meeting due to his prior commitments and unavoidable reasons and he was granted leave of absence.

BoS / MECH16.1	:	WELCOME	ADDRESS	AND	OPENING	REMARKS	BY
		CHAIRMAN,	BOARD	OF	STUDIE	S IN	THE
		DEPARTME	NT OF MEC	HANIC	AL ENGINE	ERING	

		The Chairman, BOS of the Mechanical Engineering welcomed
		and introduced the members of 16^{th} Board of Studies and
		thanked each one of them for sparing their valuable time to
		attend the meeting.
BoS / MECH 16.2	:	TO CONFIRM THE MINUTES OF FIFTEENTH BOS
45		MEETING HELD ON 26th June, 2021
-		The minutes of the Fifteenth Board of Studies meeting held on
		26th June, 2021 were communicated to the members. The
		comments received have been incorporated and placed for
		confirmation. The same was approved by the 15th Academic
		council.
		(Enclosed in Annexure – I)
BoS / MECH 16.3.1	:	
D05 / FIEGIT 10.5.1	•	Specialization courses, Conduct of Examination - ODD
g.		semester 2021-2022 for UG and PG Programmes and
		Examination Reforms.
8		(Enclosed in Annexure – II)
		RESOLVED TO APPROVE the introduction of Specialization
-		courses, Conduct of Examination - ODD semester 2021-2022
D.C. / MECH 46 0.2		for UG and PG Programmes and Examination Reforms.
BoS / MECH 16.3.2	:	To communicate the cylindric terms are
		Specialization courses – B.E. Mechanical Engineering
2		Programme under Regulation 2019.
		(Enclosed in Annexure – III)
		RESOLVED TO APPROVE the syllabus for Robotics
		Specialization courses – B.E. Mechanical Engineering
		Programme under Regulation 2019.
BoS / MECH 16.3.3	:	TO CONFIRM AND APPROVE the Syllabus for "Product Life
		Cycle Management" and revision of "Product Development
	1	Laboratory" as an integrated course - B.E. Mechanical
		babolatory as an integrated course b.b. Mechanical
		Engineering Programme under Regulation 2019.

		RESOLVED TO APPROVE the Syllabus for "Product Life Cycle
		Management" and revision of "Product Development
		Laboratory" as an integrated course – B.E. Mechanical
		Engineering Programme under Regulation 2019.
BoS / MECH 16.3.4	:	TO CONFIRM AND APPROVE Credit transfer for open
		online courses other than NPTEL (like Udemy, Coursera etc.,)
		for UG and PG programmes under Regulation 2019.
		RESOLVED TO APPROVE Credit transfer for open online
		courses other than NPTEL (like Udemy, Coursera etc.,) for UG
		and PG programmes under Regulation 2019.
BoS / MECH 16.4	:	Suggestions Given by the Members
16.4.1	:	"19ME42E - Operations and Production Management"
		programme elective course title may be changed as
		"Production and Operations Management"
16.4.2	:	Safety standards for working in Heights, lifting heavy
		materials confined spaces Heavy voltage area can be included
		materials, confined spaces, Heavy voltage area can be included
		in "19ME48E - Industrial Safety Engineering" programme
*		
16.4.3	:	in "19ME48E - Industrial Safety Engineering" programme
16.4.3	:	in "19ME48E - Industrial Safety Engineering" programme elective course.
16.4.3	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization
16.4.3		in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and
		in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms.
	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms. Drones and Automated Guided Vehicle (AGV) topics may be
16.4.4	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms. Drones and Automated Guided Vehicle (AGV) topics may be added in the "Introduction to robotics" open elective course.
16.4.4	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms. Drones and Automated Guided Vehicle (AGV) topics may be added in the "Introduction to robotics" open elective course. The robotic specialization course may be taught effectivelyby
16.4.4	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms. Drones and Automated Guided Vehicle (AGV) topics may be added in the "Introduction to robotics" open elective course. The robotic specialization course may be taught effectivelyby using a Mini robot and robot simulation software.
16.4.4	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms. Drones and Automated Guided Vehicle (AGV) topics may be added in the "Introduction to robotics" open elective course. The robotic specialization course may be taught effectivelyby using a Mini robot and robot simulation software. Stages of PLM, Marketing techniques related PLM, financial
16.4.4	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms. Drones and Automated Guided Vehicle (AGV) topics may be added in the "Introduction to robotics" open elective course. The robotic specialization course may be taught effectivelyby using a Mini robot and robot simulation software. Stages of PLM, Marketing techniques related PLM, financial aspects of PLM, case studies with specific applications.
16.4.4	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms. Drones and Automated Guided Vehicle (AGV) topics may be added in the "Introduction to robotics" open elective course. The robotic specialization course may be taught effectivelyby using a Mini robot and robot simulation software. Stages of PLM, Marketing techniques related PLM, financial aspects of PLM, case studies with specific applications. Application Lifecycle Management (ALM) topics may be
16.4.4	:	in "19ME48E - Industrial Safety Engineering" programme elective course. Appreciated the initiation of Introducing Specialization courses and hybrid mode of conduct of examination and Examination reforms. Drones and Automated Guided Vehicle (AGV) topics may be added in the "Introduction to robotics" open elective course. The robotic specialization course may be taught effectivelyby using a Mini robot and robot simulation software. Stages of PLM, Marketing techniques related PLM, financial aspects of PLM, case studies with specific applications. Application Lifecycle Management (ALM) topics may be included in "Product Lifecycle Management" open elective course.

16.4.8 : Credit transfer of open online courses other than NPTEL (like Udemy, Coursera etc.,)

- a) Students can register the courses from the open online forum (like Udemy, Coursera etc.,) with prior guidelines given by the Dean Academic with the approval of Head of the department.
- For internal marks, continuous assessments can be considered which is conducted by the Udemy, Coursera etc.,
- c) For external marks, external assessment can be conducted as a separate exam for the selected courses. Before conducting the exam, it is to be ensure that the question setting faculty should be familiarized on the particular course.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the curriculum and syllabus of Regulation 2019.

Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.

- a. Introduction of Specialization courses, Conduct of Examination ODD semester 2021-2022 for UG and PG Programmes and Examination Reforms.
- b. Syllabus for Robotics Specialization courses B.E. Mechanical Engineering Programme under Regulation 2019.
- c. Syllabus for "Product Lifecycle Management" and revision of "Product Development Laboratory" as an integrated course B.E. Mechanical Engineering Programme under Regulation 2019.
- d. Credit transfer for open online courses other than NPTEL (like Udemy, Coursera etc.,) for UG and PG programmes under Regulation 2019.

Dr.R.Harichandran, Associate Professor / Mechanical Engineering thanked all the members for their kind cooperation and the meeting came to an end.

Members Present Online

Dr. G.Kumaresan		
Deputy Director (Research) & Associate Professor		
Institute for Energy Studies,		
CEG, Anna University, Chennai		
DrIng. M. Duraiselvam	Academic Experts	
Professor / Production Engineering,	Academic Experts	
National Institute of Technology, Trichy		
Dr.A.Arockiarajan		
Professor / Applied Mechanics,		
Indian Institute of Technology, Chennai		
Dr. K. Murugan,		
Scientist -E, Centre for Sol-Gel Coatings,	Meritorious Alumnus	
ARCI, Hyderabad – 500 005, Telangana		
Mr. R. Kanda Subburaj		
Chief Engineer, Project Controls,		
AMEC Foster Wheeler India Pvt. Ltd, Chennai		
Mr. P. Muniyandi,		
Principal Scientific Officer,		
Controller of Quality Assurance,		
Bharat Earth Movers Ltd.,		
New Thippasandra, Bangaluru - 56007		
Mr. P. Sriram,		
Joint Executive President,		
Ultratech in Aditya Birla Group,		
Chennai.	Industrial Experts	
Mr. Sivaram Sundaram,	Industrial Experts	
Senior Director,		
Comcast India Engineering Centre,		
Thoraipakkam, Chennai - 97		

Members Present

Chairman	
Dr.K.Manisekar,	52
Professor & Head	4.4-52
Internal Members	
Dr.S.Iyah Raja, Asso. Professor	The same of the sa
Dr.D.Venkat Kumar, Asso. Professor	D. V.
Dr. M.Kathiresan, Asso. Professor	1 aling

Dr. R.Harichandran, Asso. Professor	R. H.
Dr.I. Sankar, Asst.Professor (S.G)	Sugar
Dr.D. Vignesh Kumar, Asst. Prof. (S.G)	Dudmpn
Dr.P.Ramanan, Asst. Professor (S.G)	Plane.
Dr.F.Michael Thomas Rex, Asst. Prof. (S.G)	M
Mr.B.Prince Abraham, Asst. Professor	Ran
Mr. S.R.Sundara Bharathi, Asst. Professor	SD
Mr. P.Samuel Ponraj, Asst. Professor	tomb
Mr. A.Andrews, Asst. Professor	In July .
Dr. P. Hariharasakthisudhan, Asst. Prof. (S.G)	PB B Robedhas
Mr. K. Thoufiq Mohammed, Asst. Professor	Dans 1
Mr. M.Vivekanandan, Adjunct Faculty	online
Mr. C.Suresh Kumar, Asst. Professor	Bw.
Mr. C.Veera Ajay, Asst. Professor	
Dr. W. Beno Wincy, Asst. Professor	Benni
Dr. N. Karthikeyan, Asst. Professor	Ta
Student Members Nominated by the HOD	The state of the s
Mr. J. Sam Joebin, IV Year Student	online
Mr. X.Cheselton, IV Year Student	online

CHAIRMAN BOARD OF STUDIES

16th BOARD OF STUDIES MEETING – DEPARTMENT OF MECHANICAL ENGINEERING ON 27.11.2021



