

DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date: 20.12.2024

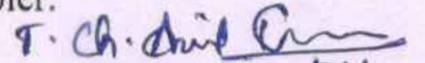
Department of Mechanical Engineering is going to conduct Board of Studies (BoS) meeting for the B. Tech in Mechanical Engineering and Robotics & Automation programs on **28.12.2024** from 10.00 AM in blended mode. The physical meeting will be held at U-Block, Ground Floor, (AGF-06). The online ZOOM platform link for the meeting is <https://us02web.zoom.us/j/76061262457>. All the members are requested to make it convenient to attend the meeting.

The members are

S. No.	Details of the member	Designation
1.	Mr. T. Ch. Anil Kumar, Assistant Professor & HoD	Chairperson
2.	Dr. M. Ramakrishna, Professor	Member
3.	Dr. K. Venkata Rao, Professor, Dean R&D nominee	Member
4.	Dr. D. Satyanarayana, Professor	Member
5.	Dr. B. Nageswara Rao, Professor	Member
6.	Dr. G. Suresh, Officiating Professor	Member
7.	Dr. Y. Jyothi, Associate Professor	Member
8.	Dr. MD. Faiyaz Ahmed, Assistant Professor	Member
9.	Mr. E. Govindarajulu, Assistant Professor	Member
10.	Dr. Sk Farooq, Assistant Professor, School Dean nominee	Member
11.	Mr. Suroju Ramakrishna, D-EVA, Principal Consultant, Tech. Mahindra, Pune	External member
12.	Dr. Jayabal K, Associate Professor, Department of Mechanical Engineering, IIITDM Kancheepuram	External member
13.	Mr. N B Prakash T, Assistant Professor, HoD nominee	Member Secretary

Agenda of the BoS Meeting:

1. To discuss about the results of II, III and IV Year I semester B. Tech Mechanical Engineering, Robotics and Automation R22 regulation students.
2. To discuss about the department elective courses offering through NPTEL for the 2024-25 II semester.
3. To discuss about the department elective courses offering through M/S Robocoupler.


 Chairperson 20/12/24



DEPARTMENT OF MECHANICAL ENGINEERING

Date: 28.12.2024

Minutes of Board of Studies Meeting

Board of Studies (BoS) meeting of B. Tech in Mechanical Engineering, B. Tech. in Robotics & Automation, was conducted on 28.12.2024 in blended mode from 10.00 AM to 1.00 PM at U-Block, Ground Floor, (AGF-06).

The ZOOM online link for the meeting is <https://us02web.zoom.us/j/76061262457>.

Agenda of the BoS Meeting:

1. To discuss about the results of II, III and IV Year I semester B. Tech Mechanical Engineering, Robotics and Automation R22 regulation students.
2. To discuss about the department elective courses offering through NPTEL for the 2024-25 II semester.
3. To discuss about the department elective courses offering through M/S Robocoupler.
4. Any other points with the permission of Chairperson.

The following members were present either thorough offline or online.

S. No.	Details of the member	Designation
1.	Mr. T. Ch. Anil Kumar, Assistant Professor & HoD	Chairperson
2.	Dr. M. Ramakrishna, Professor	Member
3.	Dr. K. Venkata Rao, Professor, Dean R&D nominee	Member
4.	Dr. D. Satyanarayana, Professor	Member
5.	Dr. B. Nageswara Rao, Professor	Member
6.	Dr. G. Suresh, Officiating Professor	Member
7.	Dr. Y. Jyothi, Associate Professor	Member
8.	Dr. MD. Faiyaz Ahmed, Assistant Professor	Member
9.	Mr. E. Govindarajulu , Assistant Professor	Member

10.	Dr. Sk Farooq, Assistant Professor, School Dean nominee	Member
11.	Mr. Suroju Ramakrishna, D-EVA, Principal Consultant, Tech. Mahindra, Pune	External member
12.	Dr. Jayabal K, Associate Professor, Department of Mechanical Engineering, IITDM Kancheepuram	External member
13.	Mr. N B Prakash T, Assistant Professor, HoD nominee	Member Secretary

Chairperson Mr. T. Ch. Anil Kumar, Assistant Professor & HoD initiated the meeting by welcoming and introducing the external members and invitees to the internal members. Chairperson presented about the result analysis of B. Tech. II, III and IV year I semester 2024-25 R22 regulation students.

The following points were discussed in the BoS meeting:

1. Result Analysis.

B.TECH., MECH II YEAR - I SEMESTER, REGULAR (R22C22) EXAMINATIONS - NOVEMBER 2024

S. No.	Subject Code	Subject Name	LTP Structure	Total	Passed	Pass %	No. of Students in Grade							
							R	I	O	S	A	B	C	M
1	22CT201	ENVIRONMENTAL STUDIES	P	37	34	91.8	1	2	0	0	13	20	1	0
2	22ME201	MATERIALS SCIENCE & METALLURGY	L+P	37	34	91.8	3	0	0	1	14	15	4	0
3	22ME202	STRENGTH OF MATERIALS	L+T+P	37	32	86.4	4	1	1	4	8	9	7	3
4	22ME203	ENGINEERING THERMODYNAMICS	L+T	37	29	78.3	2	6	0	1	11	13	4	0
5	22MS201	MANAGEMENT SCIENCE	L+T	37	33	89.1	2	2	0	0	4	16	11	2
6	22ST202	PROBABILITY & STATISTICS	L+T	37	30	81.0	2	5	0	0	4	16	10	0
7	22TP201	DATA STRUCTURES	L+T+P	37	29	78.3	1	7	0	2	4	5	17	1
8	24ME201	FIELD PROJECTS	TP2	37	35	94.5	1	1	0	0	30	4	1	0
Total (on total courses)				296	256	86.4	16	24	1	8	88	98	55	6

B.TECH., MECH III YEAR - I SEMESTER, REGULAR (R22C22) EXAMINATIONS - NOVEMBER 2024

S. No.	Subject Code	Subject Name	LTP Structure	Total	Passed	Pass %	No. of Students in Grade							
							R	I	O	S	A	B	C	M
1	22AH902	HI-TECH HORTICULTURE	P	2	2	100	0	0	0	0	2	0	0	0
2	22AM905	DIGITAL IMAGE PROCESSING	P	1	1	100	0	0	0	0	1	0	0	0
3	22BM852	BIOMEDICAL INSTRUMENTATION	L+T	1	1	100	0	0	0	0	0	1	0	0
4	22BT852	BIOPLASTICS AND BIOCOMPOSITES	L+P	1	1	100	0	0	0	0	0	1	0	0
5	22CE854	REMOTE SENSING & GEOGRAPHICAL INFORMATION SYSTEM	L+T	1	1	100	0	0	0	0	0	0	0	1
6	22CE856	SOLID WASTE MANAGEMENT	L+T	14	14	100	0	0	0	1	5	8	0	0
7	22FT852	INDIAN TRADITIONAL FOOD	L+P	5	5	100	0	0	0	0	4	1	0	0
8	22ME301	MACHINING SCIENCE AND TECHNOLOGY	L+P	23	22	95.6	1	0	1	1	13	7	0	0
9	22ME302	DESIGN OF MACHINE COMPONENTS	L+T+P	23	21	91.3	1	1	1	0	8	9	3	0
10	22ME303	APPLIED THERMODYNAMICS	L+T+P	23	22	95.6	1	0	1	3	10	8	0	0
11	22ME308	INDUSTRY INTERFACE COURSE	P	23	22	95.6	0	1	0	0	22	0	0	0
12	22ME952	AUTOMOTIVE ELECTRICAL AND ELECTRONICS	P	8	8	100	0	0	0	3	5	0	0	0
13	22MS908	INTELLECTUAL PROPERTY RIGHTS	P	3	2	66.6	1	0	0	2	0	0	0	0
14	22MS912	EVENT PRODUCTION PROCESS	P	6	6	100	0	0	0	0	6	0	0	0
15	22SS902	CIVIL SERVICES (INDIAN HISTORY)	P	1	1	100	0	0	0	0	1	0	0	0
16	22TP301	SOFT SKILLS LAB	P	23	23	100	0	0	0	1	19	2	1	0
17	22TP853	POLITY AND GOVERNANCE IN INDIA	L	1	1	100	0	0	0	0	0	0	1	0
Total (on total courses)				159	153	96.2	4	2	3	11	96	37	5	1

B.TECH., MECH IV YEAR - I SEMESTER, REGULAR (R22C22) EXAMINATIONS - DECEMBER 2024

S. No.	Subject Code	Subject Name	LTP Structure	Total	Passed	Pass %	No. of Students in Grade							
							R	I	O	S	A	B	C	M
1	22AH904	SOILLESS FARMING (HYDROPONICS, AEROPONICS AND AQUAPONICS)	P	6	6	100	0	0	0	4	2	0	0	0
2	22AM904	DEEP LEARNING	P	5	5	100	0	0	0	0	2	3	0	0
3	22BI904	FORENSIC GENOMICS	P	2	2	100	0	0	0	2	0	0	0	0
4	22CS907	OPERATING SYSTEMS AND SHELL PROGRAMMING	P	7	6	85	1	0	0	1	2	2	1	0
5	22CY906	NETWORK SECURITY	P	8	8	100	0	0	0	1	7	0	0	0
6	22FT904	BAKERY AND CONFECTIONERY TECHNOLOGY	P	3	3	100	0	0	0	2	1	0	0	0
7	22ME399	NCC / NSS / E-CELL / SOCIAL ACTIVITIES	P	54	54	100	0	0	0	0	0	0	5	4
8	22ME401	OPERATIONS RESEARCH	L+T	54	51	94	3	0	0	3	25	1	4	9
9	22ME405	ETHICS FOR INDUSTRIAL PROFESSIONALS	P	54	52	96.3	2	0	0	0	35	1	7	0
10	22ME406	ROBOTICS AND AUTOMATION	L+P	54	51	94	2	1	0	1	34	1	0	6
11	22ME809	COMPUTATIONAL FLUID DYNAMICS	L+T	54	51	94.4	3	0	0	3	36	1	2	0
12	22ME824	IOT AND SMART MANUFACTURING	L+T	54	51	94.4	3	0	0	6	37	8	0	0
13	22ME825	JET AND ROCKET PROPULSIONS	L+T	54	51	94.4	3	0	0	4	32	1	4	1
14	22ME831	REFRIGERATION AND AIR-CONDITIONING	L+T	54	48	88.8	3	3	1	4	13	1	4	1
15	22ME953	AUTOMOTIVE SAFETY	P	10	10	100	0	0	0	3	7	0	0	0
16	22ME961	RESEARCH HONOURS PROJECT	TP1	3	3	100	0	0	0	3	0	0	0	0
17	22MS904	ENGINEERING ENTREPRENEURSHIP	P	2	2	100	0	0	0	1	1	0	0	0
18	22MS914	EVENT COST ACCOUNTING & FINANCE MANAGEMENT	P	2	2	100	0	0	0	0	2	0	0	0
19	22RA905	ROS PROGRAMMING	P	5	5	100	0	0	0	0	5	0	0	0
Total (on total courses)				485	461	95.0	20	4	1	38	241	94	87	0

B.TECH., RA II YEAR - I SEMESTER, REGULAR (R22C22) EXAMINATIONS - NOVEMBER 2024

S. No.	Subject Code	Subject Name	LTP Structure	Total	Passed	Pass %	No. of Students in Grade							
							R	I	O	S	A	B	C	M
1	22CT201	ENVIRONMENTAL STUDIES	P	24	23	95	1	0	0	0	12	11	0	0
2	22EC204	ELECTRONICS FOR AUTOMATION	L+T	24	23	95.83	1	0	0	2	11	8	2	0
3	22EE206	ELECTRIC MOTORS FOR ROBOTICS	L+P	24	23	95.83	1	0	0	0	15	6	2	0
4	22MS201	MANAGEMENT SCIENCE	L+T	24	23	95	1	0	0	0	9	11	3	0
5	22RA201	FUNDAMENTALS OF ROBOTICS	L+T+P	24	23	95	1	0	0	2	14	6	1	0
6	22ST202	PROBABILITY & STATISTICS	L+T	24	21	87.	1	2	0	0	10	9	2	0
7	22TP201	DATA STRUCTURES	L+T+P	24	23	95.	1	0	0	1	12	10	0	0
8	24RA201	FIELD PROJECTS	TP2	24	24	100	0	0	0	2	21	1	0	0
Total (on total courses)				192	183	95.31	7	2	0	7	104	62	10	0

B.TECH., RA III YEAR - I SEMESTER, REGULAR (R22C22) EXAMINATIONS - NOVEMBER 2024

S. No.	Subject Code	Subject Name	LTP Structure	Total	Passed	Pass %	No. of Students in Grade							
							R	I	O	S	A	B	C	M
1	22AM905	DIGITAL IMAGE PROCESSING	P	2	2	100	0	0	0	2	0	0	0	0
2	22EC857	INTRODUCTION TO EMBEDDED SYSTEMS	L+P	8	8	100	0	0	0	4	4	0	0	0
3	22EE304	POWER ELECTRONICS AND DRIVES	L+P	9	8	88.89	0	1	1	1	5	1	0	0
4	22FT852	INDIAN TRADITIONAL FOOD	L+P	1	1	100	0	0	0	0	0	0	1	0
5	22ME908	DATA ACQUISITION IN UAVS	P	5	5	100	0	0	1	1	3	0	0	0
6	22MS912	EVENT PRODUCTION PROCESS	P	1	1	100	0	0	0	0	1	0	0	0
7	22RA301	AUTOMATION IN MANUFACTURING	L+T+P	9	9	100	0	0	1	1	6	1	0	0
8	22RA302	PLANNING AND NAVIGATION	L+T+P	9	9	100	0	0	1	3	4	1	0	0
9	22RA304	INDUSTRY INTERFACE COURSE	P	9	9	100	0	0	0	0	9	0	0	0
10	22TP301	SOFT SKILLS LAB	P	9	9	100	0	0	0	0	9	0	0	0
Total (on total courses)				62	61	98.39	0	1	4	12	41	3	1	0

B.TECH., RA IV YEAR - I SEMESTER, REGULAR (R22C22) EXAMINATIONS - DECEMBER 2024

S. No.	Subject Code	Subject Name	LTP Structure	Total	Passed	Pass %	No. of Students in Grade							
							R	I	O	S	A	B	C	M
1	22AM904	DEEP LEARNING	P	2	2	100	0	0	0	0	2	0	0	0
2	22EC905	MACHINE LEARNING FOR IOT SYSTEMS	P	3	3	100	0	0	0	3	0	0	0	0
3	22ME405	ETHICS FOR INDUSTRIAL PROFESSIONALS	P	19	19	100	0	0	0	1	15	3	0	0
4	22ME808	COMPOSITE MATERIALS	L+T	19	19	100	0	0	0	4	11	3	1	0
5	22ME819	FAILURE ANALYSIS	L+T	19	19	100	0	0	0	3	10	3	3	0
6	22ME824	IOT AND SMART MANUFACTURING	L+T	19	19	100	0	0	0	8	11	0	0	0
7	22ME911	DEEP LEARNING FOR DRONE IMAGING	P	2	2	100	0	0	1	1	0	0	0	0
8	22RA399	NCC / NSS / E-CELL / SOCIAL ACTIVITIES	P	19	19	100	0	0	0	0	0	0	19	0
9	22RA401	ARTIFICIAL INTELLIGENCE FOR ROBOTICS	L+T+P	19	19	100	0	0	0	2	15	2	0	0
10	22RA405	INDUSTRY 5.0	L	19	19	100	0	0	0	1	17	1	0	0
11	22RA802	LEGGED ROBOTS	L+T	19	19	100	0	0	0	2	15	2	0	0
12	22RA953	FINITE ELEMENT METHODS	P	9	9	100	0	0	0	6	3	0	0	0
Total (on total courses)				168	168	100	0	0	1	31	99	14	23	0

2. The Board of Studies approved the integration of NPTEL courses as department electives for current III Year and IV Year students.

S.No	Course Name with NPTEL Code	NPTEL Course Offered by	Credits
1.	noc25_me67: Product Design and Manufacturing	IIT, Madras	3
2.	noc25_me17: Dynamics and Control of Mechanical Systems	IIT, Delhi	3
3.	noc25_me43: Introduction To Mechanical Micro Machining	IIT, Bombay	3
4.	noc25_me38: Industrial Hydraulics and Automation	IIT, Kharagpur	3

3. Chairperson briefed the BoS members about the initiation of Industry offered multidisciplinary courses by RoboCoupler Pvt. Ltd., Visakhapatnam namely:

- a. III B.Tech ME & RA students by the title "Anatomy of Humanoid Robots" under the Department Elective category.
- b. III B.Tech EEE & ECE students by the title "Embedded Systems for Humanoid Robots" under Open Elective Category.
- c. III B.Tech CSE & Allied Branches by the title "Humanoid Robots" under Open Elective Category.

It was informed to the BoS members that the course will run in two modes viz. "Online" and "Offline". The assessment will be done by Industry experts only and the assessment procedure will be followed for the fore-mentioned courses as same as Minor/Honor Courses.

The following resolutions made after the discussion:

1. The Board of Studies (BoS) reviewed the academic performance of II, III, and IV Year I Semester students. Noted areas of concern where students faced difficulties and recommended remedial measures. Instructed faculty to provide additional support, and mentorship for weak performers.
2. The BoS reviewed the list of NPTEL courses proposed for department electives and approved the courses based on relevance to the curriculum and industry requirements.
3. The BoS reviewed the proposed elective courses in collaboration with M/S Robocoupler and approved the courses deemed beneficial for skill enhancement in robotics and automation. Suggested hands-on training sessions and industry expert interactions for practical exposure.

There being no further points for discussion, the chairperson thanks all the external, internal, invited members and announced that the meeting was adjourned.



Member Secretary

T. CA. Anil Kumar
Chairperson 31/12/24