

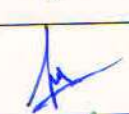

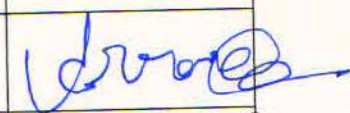
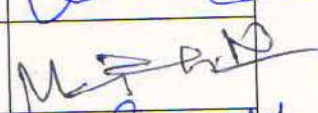
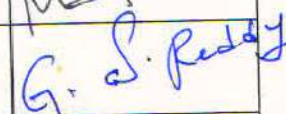
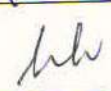
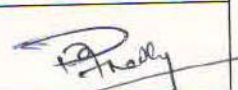
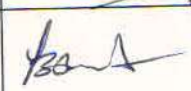

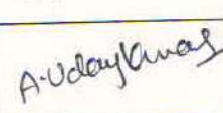
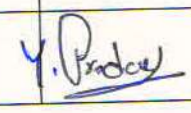
DEPARTMENT OF MECHANICAL ENGINEERING

Date: 3/12/2022

MINUTES OF MEETING - BOARD OF STUDIES (BOS)

Minute of Meeting of Board of Studies of Mechanical Engineering (ME) held on 3/12/2022 at 11:00 AM in IQAC, MG Block.

Member Present:

S. No.	Name of the Faculty	Designation	Sign
1	Dr. D.V. Srikanth (Professor & HOD)	Chairman	
2	Dr. M. T. Naik (Professor, Mechanical Dept & Vice Principal, JNTUCE, JNTUH)	University Nominee	
3	Dr. M. Amarnadha Reddy (Professor & HOD, MRCET)	Educationist	
4	Dr. D. Maneaih (Professor & HOD, CMRTC)	Educationist	
5	Mr. Surendranath Reddy (AOF Filtration Pvt. Ltd)	Industrialist	
6	Dr. S.V.S.R.K. Raju (Dean Academics)	Member	
7	Dr. D. Ranadheer Reddy (Professor & HOD, S&H)	Member	
8	Dr. B. Ravi Naik (Associate Professor)	Faculty Member	
9	Dr. Dhanaraj Savary Nasan (Associate Professor)	Faculty Member	
10	Dr. A. Uday Kumar (Assistant Professor)	Faculty Member	
11	Mr. Y Pradeep (Hyundai)	Alumni	

The meeting began with the Chairman (Board of studies) extending a warm welcome to all the members participating in the meeting.

The following points were discussed and approved during the meeting

1. The following R22 course structure for I-I, I-II, II-I, and II-II and detailed syllabus were presented, discussed and approved. Also, the total credits of the programme were discussed and approved.

I YEAR I SEMESTER

S. No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
1.	MA101BS	Matrices and Calculus	3	1	0	4	40	60	100
2.	AP102BS	Applied Physics	3	1	0	4	40	60	100
3.	CS104ES	C Programming and Data structures	3	0	0	3	40	60	100
4.	ME107ES	Engineering Workshop	0	1	3	2.5	40	60	100
5.	EN104HS	English for Skill Enhancement	2	0	0	2	40	60	100
6.	ME109ES	Elements of Mechanical Engineering	0	0	2	1	40	60	100
7.	AP103BS	Applied Physics Laboratory	0	0	3	1.5	40	60	100
8.	EN105HS	English Language and Communication Skills Laboratory	0	0	2	1	40	60	100
9.	CS103ES	C Programming and Data Structures Laboratory	0	0	2	1	40	60	100
10.	*CH109MC	Environmental Science	3	0	0	0	100	0	100
		Induction Programme	-	-	-	-	-	-	-
Total			14	3	12	20	400	600	1000

I YEAR II SEMESTER

S. No.	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
1	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4	40	60	100
2	CH202BS	Engineering Chemistry	3	1	0	4	40	60	100
3	ME208ES	Computer Aided Engineering Graphics	1	0	4	3	40	60	100

4	ME209ES	Engineering Mechanics	3	0	0	3	40	60	100
5	ME210PC	Engineering Materials	2	0	0	2	40	60	100
6	CS205ES	PythonProgrammingLaboratory	0	1	2	2	40	60	100
7	CH204BS	EngineeringChemistryLaboratory	0	0	2	1	40	60	100
8	ME211PC	Fuels & Lubricants Laboratory	0	0	2	1	40	60	100
Total			12	3	10	20	320	480	800

II YEAR I SEMESTER

S. No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
1.	PS301BS	Probability, Statistics & Complex Variables	3	1	0	4	40	60	100
2.	ME302PC	Mechanics of Solids	3	0	0	3	40	60	100
3.	ME303PC	Metallurgy & Material Science	3	0	0	3	40	60	100
4.	ME304PC	Production Technology	3	0	0	3	40	60	100
5.	ME305PC	Thermodynamics	3	1	0	4	40	60	100
6.	ME306PC	Production Technology Laboratory	0	0	2	1	40	60	100
7.	ME307PC	Material Science & Mechanics of Solids Laboratory	0	0	2	1	40	60	100
8.	ME308PC	Computer Aided Machine Drawing	0	0	2	1	40	60	100
9.	*CI309MC	Constitution of India	3	0	0	0	100	0	100
Total			15	2	6	20	420	480	900

II YEAR II SEMESTER

S. No.	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
1	EE411PC	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100

2	ME402P C	KinematicsofMachinery	3	0	0	3	40	60	100
3	ME403P C	FluidMechanics&HydraulicMachines	3	0	0	3	40	60	100
4	ME404P C	ICEngines&GasTurbines	3	0	0	3	40	60	100
5	ME405P C	InstrumentationandControlSystems	3	0	0	3	40	60	100
6	EE412PC	BasicElectricalandElectronicsEngineeri ng Laboratory	0	0	2	1	40	60	100
7	ME407P C	FluidMechanics&HydraulicMachinesLa boratory	0	0	2	1	40	60	100
8	ME408P C	InstrumentationandControlSystemsLabo ratory	0	0	2	1	40	60	100
9	ME409P C	Real-timeResearchProject/Field- BasedProject	0	0	4	2	40	60	100
10.	*GS409 MC	Gender Sensitization Laboratory	0	0	2	0	10 0	0	100
Total			15	0	12	20	460	540	1000

2. The following R22 course structure for III-I, III-II, IV-I, and IV-II were presented discussed and approved. Also, the total credits of the programme were discussed and approved.

III YEAR I SEMESTER

S. No.	Course Title	Hours per Week			Credits	Maximum Marks		
		L	T	P		Internal (CIE)	External (SEE)	Total
1	Dynamics of Machinery	3	0	0	3	40	60	100
2	Design of Machine Elements	3	0	0	3	40	60	100
3	Metrology & Machine Tools	3	0	0	3	40	60	100
4	Business Economics & Financial Analysis	3	0	0	3	40	60	100
5	Steam Power & Jet Propulsion	3	0	0	3	40	60	100
6	CAD/CAM	2	0	0	2	40	60	100
7	Thermal Engineering Laboratory	0	0	2	1	40	60	100

8	Metrology & Machine Tools Laboratory	0	0	2	1	40	60	100
9	Kinematics & Dynamics Laboratory	0	0	2	1	40	60	100
10.	Intellectual Property Rights	3	0	0	0	100	0	100
Total		20	0	6	20	460	540	1000

III YEAR II SEMESTER

S. No.	Course Title	Hours per Week			Credits	Maximum Marks		
		L	T	P		Internal (CIE)	External (SEE)	Total
1	Machine Design	3	0	0	3	40	60	100
2	Heat Transfer	3	0	0	3	40	60	100
3	Finite Element Methods	3	0	0	3	40	60	100
4	Professional Elective-I	3	0	0	3	40	60	100
5	Open Elective-I	3	0	0	3	40	60	100
6	Heat Transfer Lab	0	0	2	1	40	60	100
7	Computer Aided Engineering Laboratory	0	0	2	1	40	60	100
8	Advanced English Communication Skills Laboratory	0	0	2	1	40	60	100
9	Industry Oriented Mini Project/Internship	0	0	4	2	40	60	100
10.	Environmental Science	3	0	0	0	100	0	100
Total		15	0	12	20	460	540	1000

IV YEAR I SEMESTER

S. No.	Course Title	Hours per Week			Credits	Maximum Marks		
		L	T	P		Internal (CIE)	External (SEE)	Total
1	Industrial Management	2	0	0	2	40	60	100
2	Refrigeration & Air Conditioning	3	0	0	3	40	60	100

3	Professional Elective- II	3	0	0	3	40	60	100
4	Professional Elective- III	3	0	0	3	40	60	100
5	Professional Elective-IV	3	0	0	3	40	60	100
6	Open Elective- II	3	0	0	3	40	60	100
7	Project Stage-I	0	0	6	3	40	60	100
Total		17	0	6	20	280	420	700

IV YEAR II SEMESTER

S. No.	Course Title	Hours per Week			Credits	Maximum Marks		
		L	T	P		Internal (CIE)	External (SEE)	Total
1	Professional Elective-V	3	0	0	3	40	60	100
2	Professional Elective-VI	3	0	0	3	40	60	100
3	Open Elective- III	3	0	0	3	40	60	100
4	Project Stage-II including seminar	0	0	22	9+2	40	60	100
Total		9	0	22	20	160	240	400

Professional Elective -I

S. No.	Course Title	Credit
1	Unconventional Machining Processes	3
2	Power Plant Engineering	3
3	Mechanical Vibrations	3
4	Microprocessors in Automation	3

Professional Elective -II

S. No.	Course Title	Credit
1	Artificial Intelligence in Mechanical Engineering	3
2	Automobile Engineering	3
3	Industrial Robotics	3
4	Mechatronics	3

Professional Elective -III

S. No.	Course Title	Credit
1	Production Planning & Control	3
2	Computational Fluid Dynamics	3
3	Composite Materials	3
4	Solar energy technology	3

Professional Elective -IV

S. No.	Course Title	Credit
1	Re-Engineering	3
2	Non-Conventional Energy Sources	3
3	Operations Research	3
4	Electric and Hybrid Vehicles	3

Professional Elective -V

S. No.	Course Title	Credit
1	Automation in Manufacturing	3
2	Turbo Machinery	3
3	Additive Manufacturing	3
4	Energy Conservation and Management	3

Professional Elective -VI

S. No.	Course Title	Credit
1	Industry 4.0	3
2	Fluid Power System	3
3	Fuzzy Logic and ANN	3
4	Total Quality Management	3

Open Elective -I

S. No.	Course Title	Credit
1	Basic Mechanical Engineering	3
2	Renewable energy Sources	3

Open Elective -II

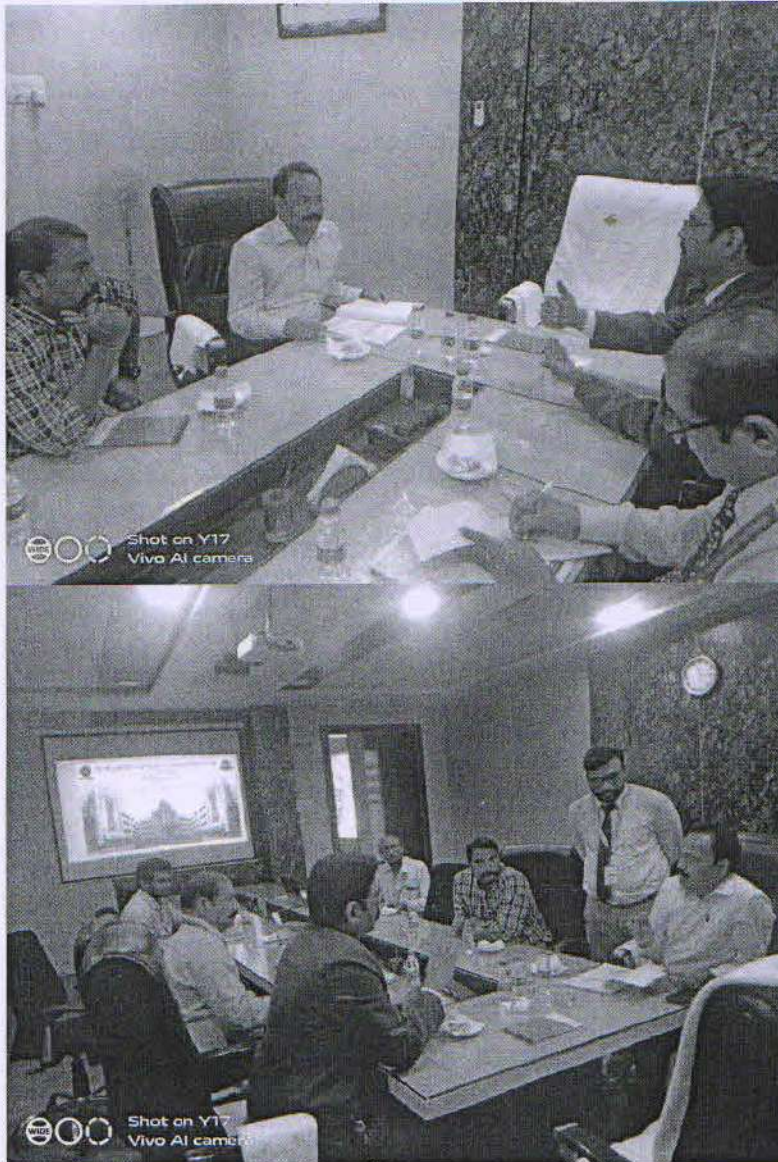
S. No.	Course Title	Credit
1	Basic Mechanical Engineering	3
2	Renewable energy Sources	3

Open Elective -III

S. No.	Course Title	Credit
1	Entrepreneurship Development	3
2	Elements of Electric and Hybrid vehicles	3


The following were suggested in the BOS meeting:

1. For Constitution of India subject a new adjunct faculty may be recruited.



The meeting ended with the chairman thanking members for their lively and useful interaction to evolve the best possible course structure and syllabus for the B. Tech Mechanical Engineering programme.

Copy to:
Principal
IQAC


HOD ~~MECHANICAL~~ Department
Department of Mechanical Engineering
St. Martin's Engineering College