

**Agenda for V Board of Studies Meeting
by Mechanical Engineering Department on 20 Aug 2025**

V Board of Studies meeting is scheduled on 20 Aug 2025 at 12.00 PM for approving various points related to I B.Tech-I & II Semester students admitted during the academic year 2025-26 as per SIET 25 Regulations.

AGENDA

Item-1: Introduction of Board of Studies (BOS) Members.

Item-2: Confirmation of previous BOS meeting minutes

Item-3: To approve course structure and syllabus of ME R25 for First and Second year

Item-4: To approve syllabus proposal for I B.Tech I Semester Theory and practical subjects, handled by Mechanical Engineering department to Mechanical Engineering, Computer Science and Engineering, CSE(AI&ML), ECE students of SIET

Item-5: To approve syllabus proposal for I B.Tech II Semester Theory and Practical subjects, handled by Mechanical Engineering department to Mechanical Engineering, Computer Science and Engineering, CSE(AI&ML), ECE students of SIET.

Item-6: To approve syllabus proposal for II B.Tech I Semester Theory and practical subjects, handled by Mechanical Engineering department to Mechanical Engineering students of SIET

Item-7: To approve syllabus proposal for II B.Tech II Semester Theory and Practical subjects, handled by Mechanical Engineering department to Mechanical Engineering students of SIET.

Item-8: Any other points with the permission of chair



Mr Y Krishnaiah

BoS – Chairman & HoD

Suggestions/Remedies/Any other points

Point-1:

- Mr. Y Krishnaiah, Assoc.Prof. & HoD of Department of Mechanical Engineering, the chairman of the Board of Studies welcomes and introduced all the members who were present.
- Mr Y Krishnaiah (Chair) presented the Course Structure of Mechanical Engineering for the approval for the upcoming Academic Year 2025-26.

Point-2:

- Mr Y Krishnaiah informed the members about the new academic activities commencing from the Academic Year 2025-26.
- Dr. K Vasantha Kumar, Assoc. Prof of Mechanical Engineering, JNTUH, UCEJ, University Nominee, emphasized on the newly added courses and their importance viz, Python Programming, Elements of Mechanical Engineering, etc.

Point-3:

- Dr. K.Chandra Shekar, Professor of Mechanical Engineering and Dean Academics of Vignan Institute of Technology and Science and Mr. B.Uday Bhaskar, Senior Manager, Hindustan Aeronautical Limited, approved and accepted the Course Structure of Mechanical Engineering I year – I Semester & II Semester.
- Dr. K Vasantha Kumar suggested to prepare more Open and Professional electives which may be more useful for Mechanical Engineering students for building their careers.
- All the members briefly discussed on the Course Structures of Mechanical Engineering II year to IV year.
- Mr. Y krishnaiah informed the members about R25 Regulations.

List of enclosures:

- 1) R25 Regulations
- 2) Course Structure
- 3) Syllabus





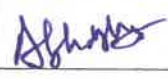


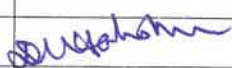
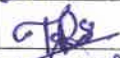




Mr Ykrishnaiah
HOD & CHAIRMAN BOS

Department of Mechanical Engineering

Board of Studies Meeting

Members Attended

S.No	Name	Designation	Position	Signature
1	Mr. Y.Krishnaiah	HoD, ME	Chairman	
2	Dr. K Vasantha Kumar	Assoc.Prof of ME, JNTUH, UCEJ	University Nominee	
3	Dr Udaya Kiran C	Principal & Professor of ME, SIET	Specialised Faculty-1	
4	Dr. Uday Bhaskar	Senior Manager, Hindustan Aeronautical Limited	Industrialist	
5	Mr. KLN.Murthy	Asst.Prof, SIET	Specialized Faculty-2	
6	Mr. T.Abhishake	3-D Solution Entrepreneur	Alumni Student	
7	Dr. K.Chandra shekar	Professor of M.E. and Dean Academics,Vignan Institute of Technology and Science	Subject Expert-1	
8	Dr. M.Nagarjuna	Associate Professor, Department of Mechanical engineering, Brilliant institute of Engineering And Technology, Hyderabad	Subject Expert-2	
9	Mr. DV.Paleshwer	Asst.Prof, SIET	Faculty	
10	Mr. T.Ravi	Asst. Prof, SIET	Faculty	
11	Mr. B.Sanjanna	Asst. Prof, SIET	Faculty	
12	Mr. K.Ch.G. Prakasam	Asst. Prof, SIET	Faculty	



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COURSE STRUCTURE & SYLLABUS

(R25 Regulations-Autonomous)

Applicable from 2025-26 Batch

IB.Tech – I Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	BSC	Matrices and Calculus	3	1	0	4
2	BSC	Advanced Engineering Physics	3	0	0	3
3	ME103CS	C Programming and Data Structures	3	0	0	3
4	ME104ES	Engineering Mechanics	3	0	0	3
5	HSC	English for Skill Enhancement	3	0	0	3
6	BSC	Advanced Engineering Physics Laboratory	0	0	2	1
7	CSC	C Programming and Data Structures Laboratory	0	0	2	1
8	ME108ES	Engineering Workshop	0	0	2	1
9	HSC	English Language and Communication Skills Laboratory	0	0	2	1
		Induction Program	-	-	-	-
Total Credits			15	01	08	20

I B.Tech – II Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	BSC	Ordinary Differential Equations and Vector Calculus	3	0	0	3
2	BSC	Applied Chemistry	3	0	0	3
3	CSC	Python Programming	3	0	0	3
4	ESC	Elements of Electrical and Electronics Engineering	3	0	0	3
5	ME205ES	Thermodynamics	3	0	0	3
6	ME206ES	Engineering Graphics and Computer Aided Drafting	2	0	2	3
7	BSC	Chemistry Laboratory for Engineers	0	0	2	1
8	CSC	Python Programming Laboratory	0	0	2	1
9	ESC	Elements of Electrical and Electronics Engineering Laboratory	0	0	2	1
		Total Credits	17	00	08	21

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II B.Tech – I Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	BSC	Probability ,Statistics and Complex Variables	3	0	0	3
2	ME302PC	Mechanics of Solids	3	0	0	3
3	ME303PC	Material Science and Metallurgy	3	0	0	3
4	ME304PC	Production Technology	3	0	0	3
5	ME305PC	Fluid Mechanics and Hydraulic Machines	3	0	0	3
6	ME306CS	Computational Mathematics Laboratory	0	0	2	1
7	ME307PC	Production Technology Laboratory	0	0	2	1
8	ME308PC	Material Science and Mechanics of Solids Laboratory	0	0	2	1
9	ME309PC	Fluid Mechanics and Hydraulic Machines Laboratory	0	0	2	1
10	MESDC1	Design Thinking and Ideation(Skill Development Course – 1)	0	0	2	1
Total Credits			15	0	10	20

II B.Tech – II Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	ME401PC	Kinematics of Machinery	3	0	0	3
2	ME402PC	Thermal Engineering-I	3	0	0	3
3	ME403PC	Design of Machine Elements	3	0	0	3
4	ME404PC	Instrumentation and Control Systems	3	0	0	3
5	ME405PC	Operations Research	2	0	0	2
6	ME406PC	Innovation and Entrepreneurship	2	0	0	2
7	ME407PC	Conventional and Computer Aided Machine Drawing	0	0	2	1
8	ME408PC	Instrumentation and Control Systems Laboratory	0	0	2	1
9	ME409PC	Thermal Engineering-I Laboratory	0	0	2	1
10	MESDC2	Data Analytics and Python for Engineers(Skill Development Course-2)	0	0	2	1
11	MC410	Indian Knowledge System	1	0	0	1
Total Credits			17	0	8	21

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III-I B.Tech – I Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	ME501PC	Design of Transmission Elements	3	0	0	3
2	ME502PC	Thermal Engineering- II	3	0	0	3
3	ME503PC	Metrology and Machine Tools	3	0	0	3
4	ME504PE	Professional Elective-I	3	0	0	3
5	ME505OE	Open Elective-I	2	0	0	2
6	ME506PC	Thermal Engineering-II Laboratory	0	0	2	1
7	ME507PC	Metrology and Machine Tools Laboratory	0	0	2	1
8	ME508PC	Modelling and Drafting Laboratory	0	0	2	1
9	ME509PC	Field Based Project/Internship	0	0	4	2
10	SDC3	Modelling and Simulation Tools(Skill DevelopmentCourse-3)	0	0	2	1
Total Credits			15	0	12	21

***Note:** For the courses Gender Sensitization Lab and Human Values and Professional Ethics - one hour of instruction will be conducted on alternate weeks. For example, if a one-hour class for Gender Sensitization Lab is conducted this week, then a one-hour class for Human Values and Professional Ethics will be conducted in the following week.

III-II B.Tech – II Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	ME601PC	Dynamics of Machinery	3	0	0	3
2	ME602PC	Heat Transfer	3	0	0	3
3		Business Economics and Financial Analysis	3	0	0	3
4	ME604PE	Professional Elective-II	3	0	0	3
5	ME605OE	Open Elective-II	2	0	0	2
6	ME606PC	Heat Transfer Lab	0	0	2	1
7	ME607PC	Applied Manufacturing Laboratory	0	0	2	1
8	ME608PC	Kinematics and Dynamics Laboratory	0	0	2	1
9	HSC	Advanced English Communication Skills Laboratory	0	0	2	1
10	SDC4	Troubleshooting of Mechanical Systems(Skill DevelopmentCourse-4)	0	0	2	1
11	MC610	Environmental Science	1	0	0	1
Total Credits			15	0	10	20

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IV-I B.Tech – I Semester

S.No	Course Code	Course Title	L	T	P	Credits
1	ME701PC	Finite Element Methods	3	0	0	3
2	ME702PC	Robotics and Automation	3	0	0	3
3	ME703PC	Industrial Engineering and Management	3	0	0	3
4	ME704PE	Professional Elective- III	3	0	0	3
5	ME705PE	Professional Elective-IV	3	0	0	3
6	ME706OE	Open Elective- III	2	0	0	2
7	ME707PC	Computer Aided Analysis Laboratory	0	0	2	1
8	ME708PC	Robotics and Automation Laboratory	0	0	2	1
9	ME709PC	Industry Oriented Mini Project/Summer Internship	0	0	4	2
		Total Credits	17	0	08	21

IV-II B.Tech – II semester

1	ME801PE	Professional Elective-V	3	0	0	3
2	ME802PE	Professional Elective-VI	3	0	0	3
3	ME803PC	Project Work	0	0	28	14
		Total Credits	6	0	28	20

Professional Elective-I

1	ME511PE	Power Plant Engineering
2	ME512PE	Automobile Engineering
3	ME513PE	Refrigeration and Air-Conditioning
4	ME514PE	Renewable Energy Sources

Professional Elective-II

1	ME611PE	Additive Manufacturing
2	ME612PE	Micro Manufacturing
3	ME613PE	Artificial Intelligence in Mechanical Engineering
4	ME614PE	Advanced Machining Processes

Professional Elective-III

1	ME711PE	Mechanical Vibrations
2	ME712PE	Mechanics of Composite Materials and Structures
3	ME713PE	Design for Manufacturing and Assembly
4	ME714PE	Mechatronic Systems

Professional Elective-IV

1	ME721PE	Plant Maintenance and Reliability Engineering
2	ME722PE	Total Quality Management
3	ME723PE	Database Management Systems
4	ME724PE	Production Planning and Control

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Professional Elective-V

1	ME811PE	Product Design and Manufacturing
2	ME812PE	Computational Fluid Dynamics
3	ME813PE	Electric and Hybrid Vehicles
4	ME814PE	Artificial Neural Networks

Professional Elective-VI

1	ME821PE	Hydraulics and Pneumatics
2	ME822PE	Sustainable Engineering
3	ME823PE	AI/ML for Design Analysis
4	ME824PE	Project Management

OPENELECTIVES

Open Elective-I:

1	ME511OE	Optimization Methods
2	ME512OE	Industrial Robotics

Open Elective-II:

1	ME611OE	Artificial Intelligence in Mechanical Engineering
2	ME612OE	Non-Conventional Sources of Energy

Open Elective-III:

1	ME711OE	Engineering Materials
2	ME712OE	Digital Manufacturing

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4. *Buddhachan*

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6. *Abhinav*

7. *Ug*

8. *MS*

9. *Aravindhan*

10. *DS*

11. *Praveen*

12. *K. Anu*