



SREE VAHINI INSTITUTE OF SCIENCE AND TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE & Govt. of A.P., Affiliated to JNTU Kakinada)
Accredited by NAAC with "A" Grade, An ISO 9001:2015 Certified Institution
Sri Vahini Nagar, NH-30 . TIRUVURU, PIN: 521 235. NTR Dist. A.P. India.

Date: 12-10-2023.

Agenda of the Board of Studies 1st Meeting to be held on 12-10-2023.

1. Approval of B.Tech MECH- Course Structure & Syllabus of I B.Tech I & II Sem
2. Approval of B.Tech MECH-Course outcomes of I B.Tech I & II Sem.
3. Information on R23 Regulations- U.G (B.Tech)
4. Approval of M.Tech Machine Design- Course Structure & Syllabus of I M. Tech I , II,III&IV sems
5. Approval of M.Tech Machine Design -Course outcomes of I M.Tech I & II, III&IV Sems.
6. Information on R23 Regulations- P. G (M.Tech- Machine Design)
7. Informaion for teaching learning processes
8. Any other matter with permission of Chair.

Chairman, BOS

HOD

Department of Mechanical Engineering
Sree Vahini Institute of Science & Technology
TIRUVURU 521 235



Date: 12-10-2023

MINUTES OF 1st MEETING OF BOARD OF STUDIES (BOS)

➤ Composition of Board of Studies:

The following members are drafted as members to Board of Studies for the department of Electrical & Electronics Engineering

S. No.	BOS Member	Name and Designation of Member
I	Chairperson	Mr.V.Ramachandrarao,Asst Professor &HOD
II	Faculty Members :	
	1	Mr. Ramachandrarao, Asst Professor &HOD
	2	Dr.R.Nagendrababu, Professor
	3	Mr.B.Baloji,Associate Professor(Ph.D)
	4	Mr.M.Muttaiah,Associate Professor
	5	Mr.P.Dasu,Assistant Professor
III	Subject Experts (Academic) :	
	1.	Dr.A.Venu Gopal ,Professor Mech Dept., NITW.Warangal-506004 Telangana,India, E-Mail: venu@NITW.ac.in
	2.	Dr.M.Gopi Krishna ,Associate Professor of MECH, ANU, Guntur Andrapradesh E-Mail: mgopi.anu@gmail.com, +91 9985858593
IV	University Nominee :	
	1.	Dr.A.Gopala Krishna, Professor of MECH JNTUK, Kakinada
V	Subject Expert (Industry)	Mr.B.Raja sekhar , Executive Director, KRISTNA ENGG Works, Enikepadu,Vijayawada,A.P.
VI	Alumni	Mr.T.Raviteja (16MG1A0345),Ph.no:6300279916, DE, CYIENT, HYD
VII	Expert (Outside)	L.Rajesh Sr.Engineer,Kusalava industries, Adivi Nekkalam Mobile:7382073035

Mr. V.Ramachandra Rao, Head of the department, Mechanical Engineering, Sree Vahini institute of science and technology, Tiruvuru chaired the meeting. He expressed his sincere thanks to the entire external examiner for their consent to be on the Board of Studies of the department and their valuable suggestions for improvement. He extended a warm and hearty welcome to all the Hon'ble members of the Board of Studies.

He acknowledged all the members for their valuable suggestions, advice, guidelines and concern towards overall development of the department. Later, he presented the credentials of the college and agenda of the meeting.

Hon'ble Members Dr.A.Gopala Krishna, Dr.A.Venu Gopal and Dr.M.Gopi Krishna have made suggestions for the function of Board of Studies.

Functions of the Board of Studies

- Prepare syllabus for various courses keeping in view the objectives of the college, interest of the stakeholders and national requirement for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of names to the Academic Council for appointment of examiners.
- Coordinate research, teaching, extension and other academic activities in the department/college.

With reference to each agenda item, proceedings of Board of studies meeting given below.

1.Discussion and Approval of B.Tech Mechanical Engineering R23 course structure.

BOS Chairman informed the details related to the R23 course structure, Syllabus I B.Tech I & II sem R23 regulations to all the BOS members. As part of the implementation of NEP- 2020 across the State of Andhra Pradesh. APSICHE & JNTUK, Kakinada proposed common regulation, course structure and syllabus for all autonomous college and affiliated institutions.

The autonomous college may enhance 20% of the syllabus based on the approval from BOS members. The course outcomes may be modified based on the content..

- University Nominee Dr A.Gopala Krishna suggested to take the R23 structure prepared by JNTUK for the I & II semesters as a reference. JNTUK is following the common syllabus for all its affiliated colleges to facilitate the students transferring from one institute to other after the first year.
- Academic Expert Dr.A.Venu Gopal & Dr.M.Gopi Krishna pointed that the Engineering graphics
Using the latest edition from the textbooks and choosing the small minor modifications in syllabus i.e unit-v isometric to orthographic & orthographic to isometric with simple objects.
- University Nominee Dr A.Gopala Krishna & Academic Expert Dr.A.Venu Gopal suggested to choosing the latest textbook from Basic Civil&Mechanical Engineering subject and sir also mentioned to adding basic principles of solar and wind energies in unit-III.

- University Nominee Dr A.Gopala Krishna , Academic Expert Dr.A.Venu Gopal& Dr.M.Gopi Krishna suggested to In II Semester Engineering mechanics subject also to introduce *Ferdinand Singer textbook* .

Decision: Noted and approved the course structure, Syllabus.

2.Approval of B.Tech MECH - Course outcomes of I B.Tech I & II Sem.

The BOS chairman informed the course outcomes of I sem & II sem courses and articulation matrix to all the BOS members.

Decision: Noted and approved the course outcomes specifications and articulation matrix.

3. Information on R23 Regulations- U.G (B.Tech)

The BOS chairman informed to Hon'ble members about R23 regulation polices and audit courses like Health and fitness activities included in the regulations.

4.Approval of M.Tech Machine Design - Course Structure & Syllabus of I M. Tech I & II,III&IV sem and Information on R23 Regulations- P.G (M.Tech).

BOS Chairman informed the details related to the R23 course structure, Syllabus I M.Tech I &II,III&IV sem R23 regulations to all the BOS members.

Decision: Noted and approved the course structure, Syllabus. It is suggested to follow the curriculum of R19 for R23- M.Tech (Machine Design).

5. Approval of M.Tech Machine Design - Course outcomes of I M.Tech I & II,III&IV Sem

The BOS chairman informed the course outcomes of I sem & II,III&IV sem courses and articulation matrix to all the BOS members

6.Information on R23 Regulations- P. G (M.Tech- Machine Design)

The BOS chairman informed to Hon'ble members about R23 regulation polices and audit courses like Health and fitness activities included in the regulations.

7.Informaion on teaching learning processes

The teaching learning processes of the department is discussed and suggestions by the honourable members are noted.

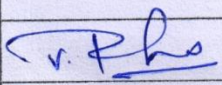
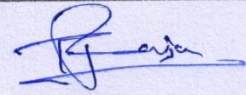


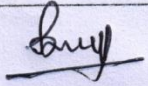
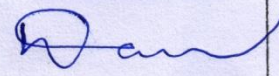
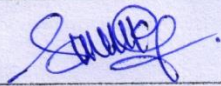
8.Any other matter with permission of Chair.

- BOS chairman is informed to Hon'ble members about proposed calendar of events organized for students and faculty for the A. Y. 2023-24.
- BOS Chairman is informed to Hon'ble members about B. Tech II sem academic results for the A. Y: 2022-23.

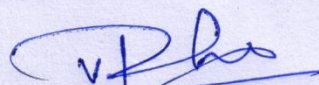
Decision: Noted

1st MEETING OF BOARD OF STUDIES

Signatures of BOS Members:

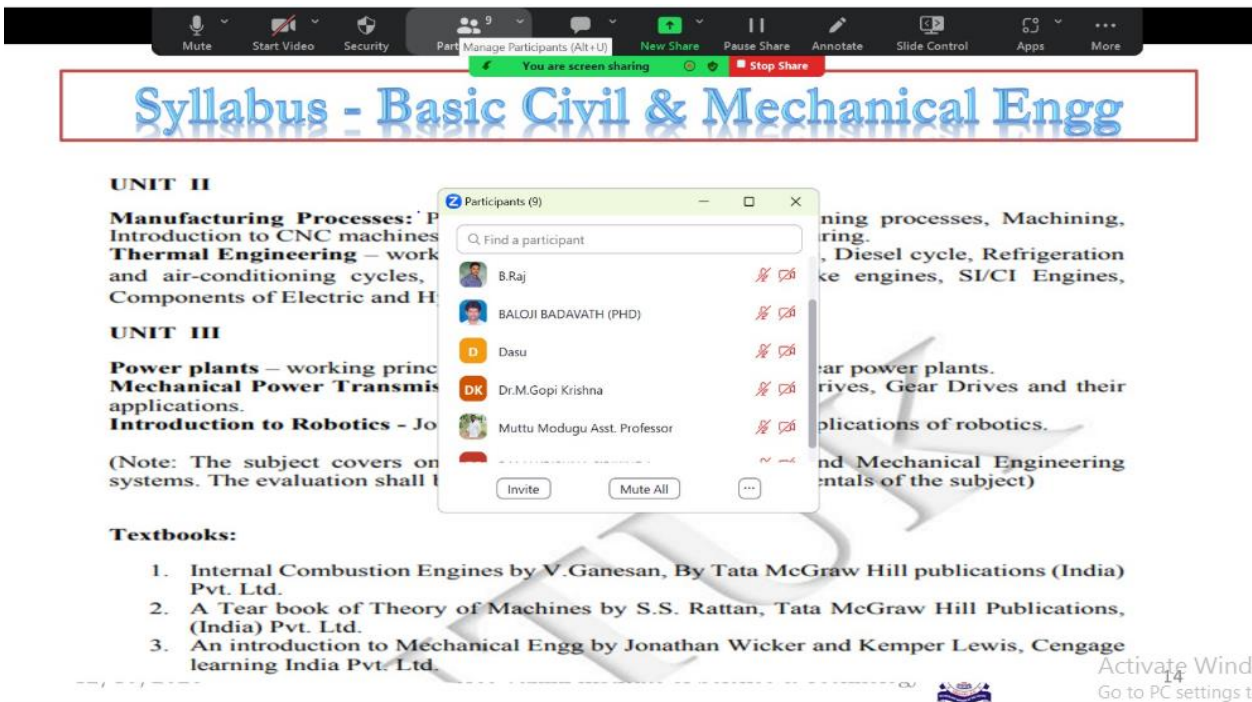
S.No	BOS Hierarchy	Name and Designation of Member	Signature
1	Chairperson	Mr.V.Ramachandrarao,Asst Professor &HOD	
2	University Nominee	Dr.A.Gopala Krishna, Professor of MECH JNTUK, Kakinada	Attended Online
3	Subject Experts (Academic)	Dr.A.Venu Gopal ,Professor, Mech Dept., NITW. Warangal	Attended Online
4	Subject Experts (Academic)	Dr.M.Gopi Krishna ,Associate Professor of MECH, ANU, Guntur	Attended Online
5	Subject Expert (Industry)	Mr.B.Raja sekhar , Executive Director, Kristna Engg Works	Attended Online
6	Expert (Outside)	L.Rajesh. Sr.Engineer,Kusalava industries	Attended Online
7	Alumni Member	Mr.T.Raviteja (16MG1A0345) ,DE, CYIENT, HYD	
8	Internal faculty	Dr.R.Nagendrababu, Professor&Principal	
9	Internal faculty	Mr.B.Baloji , Associate Professor(Ph.D)	
10	Internal faculty	Mr.M.Muttaiah, Associate Professor	
11	Internal faculty	Mr.P.Dasu, Assistant Professor	
12	Internal faculty	Mr.S.Ramakrishna, Assistant Professor	

Date: 12.10.2023


BOS Chairperson

HOD
Department of Mechanical Engineering
Sree Vahini Institute of Science & Technology
TIRUVURU - 517 105

SCREEN SHOTS



Syllabus - Basic Civil & Mechanical Engg

UNIT II
Manufacturing Processes: P Introduction to CNC machines
Thermal Engineering – work and air-conditioning cycles, Components of Electric and H

UNIT III
Power plants – working princ
Mechanical Power Transmis applications.
Introduction to Robotics - Jo

(Note: The subject covers on systems. The evaluation shall l

Textbooks:

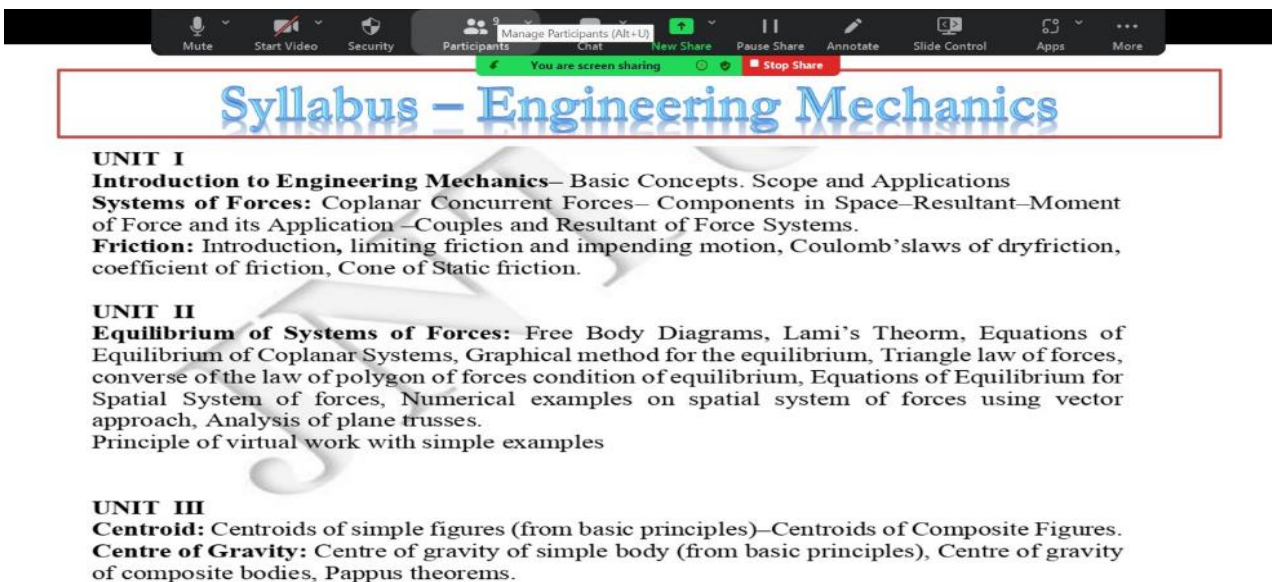
1. Internal Combustion Engines by V.Ganesan, By Tata McGraw Hill publications (India) Pvt. Ltd.
2. A Tear book of Theory of Machines by S.S. Rattan, Tata McGraw Hill Publications, (India) Pvt. Ltd.
3. An introduction to Mechanical Engg by Jonathan Wicker and Kemper Lewis, Cengage learning India Pvt. Ltd.

Participants (9)

Name	Mute	Video
B.Raj	Off	Off
BALOJI BADAVATH (PHD)	Off	Off
Dasu	Off	Off
Dr.M.Gopi Krishna	Off	Off
Muttu Modugu Asst. Professor	Off	Off

ning processes, Machining, ring.
Diesel cycle, Refrigeration ke engines, SI/CI Engines,
ear power plants.
rives, Gear Drives and their
lications of robotics.
nd Mechanical Engineering entals of the subject)

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Syllabus - Engineering Mechanics

UNIT I
Introduction to Engineering Mechanics– Basic Concepts. Scope and Applications
Systems of Forces: Coplanar Concurrent Forces– Components in Space–Resultant–Moment of Force and its Application –Couples and Resultant of Force Systems.
Friction: Introduction, limiting friction and impending motion, Coulomb’slaws of dryfriction, coefficient of friction, Cone of Static friction.

UNIT II
Equilibrium of Systems of Forces: Free Body Diagrams, Lami’s Theorm, Equations of Equilibrium of Coplanar Systems, Graphical method for the equilibrium, Triangle law of forces, converse of the law of polygon of forces condition of equilibrium, Equations of Equilibrium for Spatial System of forces, Numerical examples on spatial system of forces using vector approach, Analysis of plane trusses.
Principle of virtual work with simple examples

UNIT III
Centroid: Centroids of simple figures (from basic principles)–Centroids of Composite Figures.
Centre of Gravity: Centre of gravity of simple body (from basic principles), Centre of gravity of composite bodies, Pappus theorems.

