

SWARNANDHRA
COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)
DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF NINTH BOARD OF STUDIES MEETING (UG-MECH)

Date: 18-10-2023

Topic: Board of Studies Meeting

Venue: Online Zoom Meeting

Time: Oct 16, 2023 03:00 PM

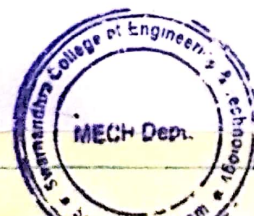
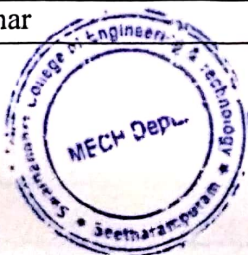
Ninth BOS Meeting Video Link

https://drive.google.com/file/d/1LiPX8gbTzA2XwFsnmeV3ZtjOKh_li7w1/view?usp=sharing

The ninth board of studies meeting of the Mechanical Engineering department held on 16th Oct 2023 at 3.00 PM through online mode for the approval of R23 course structure and syllabus of I and II semesters.

The following members were attended to the BOS meeting

S.NO.	Name of BOS Member	Designation in BOS
1	Dr. A. Gopichand	Chairman
2	Dr. K. Meera Saheb JNTUK, KAKINADA	Subject Expert Nominated by V.C
3	Dr. P. Ravi Kumar, VNIT, Nagpur	Subject Expert Nominated by Institute
4	Dr. K. Linga Durai Anna University, Chennai	Subject Expert Nominated by Institute
5	Mr. T. Mohan Krishna ONGC, Mumbai	Industrial Expert
6	Mr. N. H. D. Srinivas Blue Yonder India Pvt. Ltd, Hyderabad	Alumni Member
7	Dr. R. Lalitha Narayana	Internal Member
8	Dr. G. Robert Singh	Internal Member
9	Dr. R. Sanjeev Kumar	Internal Member
10	Dr. Francis Luther King M	Internal Member
11	Dr. D. Bhanu Prakash	Internal Member
12	Mr. B. Srinivas	Internal Member
13	Mr. B. Mahesh Krishna	Internal Member
14	Mr. Ch. Harish Kumar	Internal Member



The BOS Chairman Dr. A. Gopichand welcomed all the Experts and Members.

1. **Review of previous BOS meeting minutes**

The chairman discussed the 8th BOS meeting minutes.

2. **Discussion on R23 course structure and syllabus of I and II Semesters for B.Tech Mechanical Engineering (Applicable for the admitted batch from 2023-24)**

The chairman introduced R23 regulation syllabus for the courses of I and II Semesters. The following were suggested by the BOS members.

- Suggested to keep Plain scales and diagonal scales in unit 1, and in unit 4 any two simple solids may be considered in Sections of solids in Engineering Graphics.
- Approved the syllabus of Basic Mechanical Engineering course.
- Approved the syllabus of Engineering Mechanics course.
- Approved the syllabus of Engineering Mechanics lab.
- Suggested to execute any two experiments from each trade and the same may be practiced by the students in Engineering Workshop.
- Approved the CO, PO & PSO mapping and web references for every courses in R23.
- Suggested to include internal & external marks for every courses in R23.

The BOS meeting was concluded by the Chairman with a letter of gratitude to all BOS members at 03.30 PM.

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Engineering Mechanics Lab (Mechanical Engineering & allied branches)". The slide content includes:

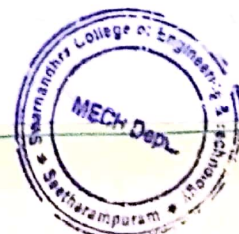
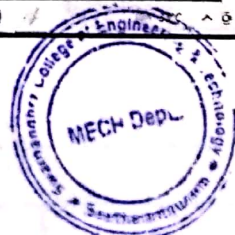
B SEMESTER

	L	T	P	C
Engineering Mechanics Lab	0	0	1	18

COURSE OBJECTIVES: The students completing the course are expected to:

- Verify the Law of Parallelogram and Triangle of Forces
- Determine the coefficient of friction of static and rolling friction and Centre of gravity of different plane laminae.
- Analyse the system of Pulleys and Moment of Inertia of Compound Pendulum and

The right sidebar shows a list of participants: Harish (M), Dr. Gopichand (Host), Meera Sahab, Bhani Prakash Dola, Dr. SANJEEV KUMAR R, Pradeep Kumar M, G. Robert Singh, kishanarajana75@gmail.com, and Mech.mahesh.muramathar.



Zoom Meeting 40-Minutes You are viewing Dr. Gopichand's screen View Options

Dr. Gopichand

Participants (7)

- Harish (Me)
- Dr. Gopichand (Host)
- Bhanu Prakash Dola
- Francis Luther King M
- G Robert Singh
- gathnarayana75@gmail.com
- Meera Sahab

Document Security

Available Files

- 1. Tutorials and 2. The design created last 3:25 PM Monday, Oct 16, 2023
- 3. 3D case modeling, design created last 3:26 PM Thursday, Oct 16, 2023
- 4. 12 Mechanical Subjects, design created last 2:17 PM Monday, Oct 16, 2023
- 5. 12 Mechanical Subjects, design created last 3:07 PM Thursday, Oct 16, 2023
- 6. 12 Mechanical Subjects, design created last 3:30 PM Thursday, Oct 16, 2023
- 7. 12 Mechanical Subjects, design created last 3:32 PM Thursday, Oct 16, 2023

12 Mechanical Subjects (Subject 12) - Microsoft Word

CO2 Describe the working of different mechanical power transmission systems and power plants
CO4 Describe the basic of robotics and its applications

UNIT I

Introduction to Mechanical Engineering Role of Mechanical Engineering in Industries and Society Technologies in different sectors such as Energy, Manufacturing, Automotive, Aerospace and Marine sectors

Engineering Materials Metals, Ferrous and Non-ferrous, Ceramics, Composites, Smart materials

UNIT II

Manufacturing Processes: Principles of Casting, Forming, joining processes, Machining
Introduction to CNC machines, 3D printing, and Smart manufacturing

Thermal Engineering - Working principle of Boilers, Otto cycle, Diesel cycle, Refrigeration and air-conditioning cycles, IC engines, 2-Stroke and 4-Stroke engines, SI, CI Engines, Components of Electric and Hybrid Vehicles

UNIT III

Power plants - Working principle of Steam, Diesel, Hydro, Nuclear power plants, Mechanical Power Transmission - Belt Drives, Chain, Rope drives, Gear Drives and their applications

Introduction to Robotics Joints & links, configurations, and applications of robotics

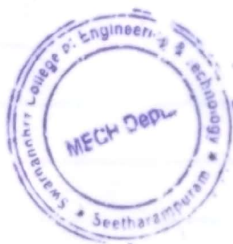
(Note: The subject covers only the basic principles of Civil and Mechanical Engineering systems. The evaluation shall be intended to test only the fundamentals of the subject.)

3:35 PM Monday 12/16/2023

Leave Invite Unmute Me Reclaim Host

Type here to search

33°C 16-10-2023



A. Gopichand
Dr. A. Gopichand
Chairman BOS
Department of ME

