

# SWARNANDHRA

## COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous)  
ACCREDITED BY NAAC WITH "A" GRADE  
Seetharamapuram, Narsapuram-59, W.G. Dist.

BOARD OF STUDIES U.G.  
DEPARTMENT OF MECHANICAL ENGINEERING

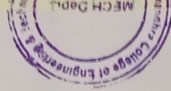
S.No	Name	Designation	Contact Details	Remarks
1	Dr.A.Gopichand	Professor	Head of the Department, ME Dept, SCET	Chairman
2	Dr.K.Meera Sahab	Professor	Dept. of MECH, JNTUK, Kakkinada	Subject Expert, Nominated by V.C
3	Dr K Ravi Kumar	Assistant Professor	Dept. of MECH, VNIT, Nagapur	Subject Expert
4	Dr. K. Linga Dural	Professor & Dean	ANNA UNIVERSITY Regional Campus Tamilnadu	Subject Expert
5	Mr. T. Mohan Krishna	Chief Engineer (MECH)	Design of Subsea pipeline, ONGC, Mumbai	Industrial Expert
6	Mr. N. Hari Durga Srinivas	IN-Support Engineer	Blue Yonder India Private Limited, Hyderabad,Telangana	Alumni Member
7	Dr. R Lalitha Narayana	Associate Professor	Dept. MECH. SCET, Narsapur	Internal Member
8	Dr G Robert Singh	Associate Professor	Dept. MECH. SCET, Narsapur	Internal Member
9	Dr. R Sanjeev Kumar	Associate Professor	Dept. MECH. SCET, Narsapur	Internal Member
10	Dr. D Bhanu Prakash	Associate Professor	Dept. MECH. SCET, Narsapur	Internal Member
11	Dr. M Francis Luther King	Associate Professor	Dept. MECH. SCET, Narsapur	Internal Member
12	Mr.B.Srinivas	Associate Professor	Dept. MECH. SCET, Narsapur	Internal Member
13	Mr. CH Harish Kumar	Assistant Professor	Dept. MECH. SCET, Narsapur	Internal Member
14	Mr. B Mahesh Krishna	Assistant Professor	Dept. MECH. SCET, Narsapur	Internal Member

HEAD OF THE DEPARTMENT

*A. Gopichand*

PRINCIPAL

*[Signature]*





**SWARNANDHRA**  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
(AUTONOMOUS)  
DEPARTMENT OF MECHANICAL ENGINEERING  
9<sup>th</sup> BOARD OF STUDIES MEETING- UG

DATE: 16-10-2023

VENUE: ONLINE

TIME: 03.00 PM

**AGENDA**

1. Review of previous BOS meeting minutes
2. R23 Regulations 1<sup>st</sup> B.Tech Subjects syllabus finalization
3. Any other matter with the permission of chair.



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

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

Date: 18-10-2023

Topic: Board of Studies Meeting

Venue: Online Zoom Meeting

Time: Oct 16, 2023 03:00 PM

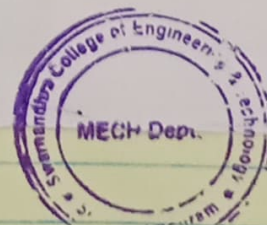
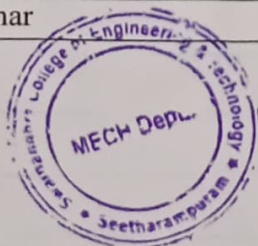
Ninth BOS Meeting Video Link

[https://drive.google.com/file/d/1LiPX8gbTzA2XwFsnmeV3ZtjOKh\\_li7w1/view?usp=sharing](https://drive.google.com/file/d/1LiPX8gbTzA2XwFsnmeV3ZtjOKh_li7w1/view?usp=sharing)

The ninth board of studies meeting of the Mechanical Engineering department held on 16<sup>th</sup> 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 with a presentation slide titled "R23 Mechanical Subjects Syllabus (2) - Microsoft Word". The slide content includes:

3. Introduction to Statics and Dynamics, Beer and Johnston, Oxford University Press, 2014, 6th Edition.

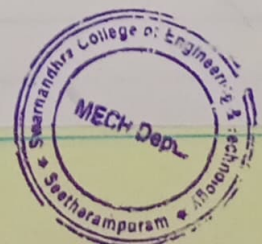
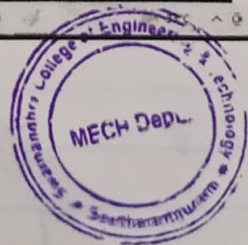
4. Engineering Mechanics: Statics and Dynamics, Hibbeler R.C., Pearson Education, Inc. New Delhi, 2022, 14th Edition.

II SEMESTER	L	T	P	C
ENGINEERING MECHANICS LAB (Mechanical Engineering & allied branches)	0	0	3	1.5

Course Objectives: The students completing the course are expected to:

- Verify the Law of Parallelogram and Triangle of Forces
- Determine the coefficients of friction of static and rolling friction and Centre of gravity of different plane Lamina.
- Analyze the system of Pulley and Moment of Inertia of Compound Pendulum and

The Zoom interface also shows a list of participants on the right, including Harsh (ME), Dr. Gopichand (Host), Meera Sahab, Bhani Prakash Dola, Dr. SANJEEV KUMAR R, Francis Luther Kag M, G Robert Singh, lalithnarayana73@gmail.com, and Mech-mahesh-swarnandhar.



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

Participants (7)

- H Harish (Me)
- D Dr. Gopichand (Host)
- D Dhany Prakash Datta
- PL Francis Luther King M
- G Robert Singh
- L lalith.narayana75@gmail.com
- MS Meera Sahab

Dr. Gopichand

Microsoft Word - All Mechanical Subjects Syllabus (2)

CO2 Describe the working of different mechanical power transmission systems and power plants  
CO3 Describe the basics 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, 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 Diesel, Otto cycle, Diesel cycle, Refrigeration and air-conditioning cycles IC engines, 2-Stroke and 4-Stroke engines, SI/CI Engines, Components of Diesel 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.)

3:01 PM  
Monday  
16/10/2023

33°C 16-10-2023



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

