



SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF 12th BOARD OF STUDIES MEETING (UG -MECH)

Date: 24-06-2026

Topic: 12th Board of Studies Meeting

Venue: Mechanical Dept.

Time: 14th May, 2026 11:00 AM

Mode: Online Zoom Platform

Meeting link:

<https://us06web.zoom.us/j/82482328491?pwd=WOzeqFqle4eG0Alnjnl6y0rlf0bqVQ.1>

12th BOS Meeting Video Link:

https://drive.google.com/file/d/1fTq3BuOZ1kOh81Ku0V77TPi0tDZouVq6/view?usp=drive_link

The Tenth board of studies meeting of the Mechanical Engineering department held on 14th May 2026 at 11.00 AM through online mode for the approval of R23 course structure and syllabus of VII and VIII semesters.

The following members were attended to the BOS meeting

S.NO.	Name of BOS Member	Designation in BOS
1	Dr. Francis Luther King M	Chairman
2	Prof. V. Diwakar Reddy SV UNIVERSITY, Tirupathi	Subject Expert Nominated by V.C
3	Dr. P. Ravi Kumar, NIT, Warangal	Subject Expert Nominated by Institute
4	Dr. V. Prem Ananth Anna University, Chennai	Subject Expert Nominated by Institute
5	Mr. T. Mohan Krishna DGM, ONGC, Mumbai	Industrial Expert
6	Mr. Kumar Datta Garaga Procurement Engineer, Toshiba Transmission and distribution systems Private Limited, Hyderabad, Telangana	Alumni Member
7	Dr. R. Lalitha Narayana	Internal Member
8	Dr. R. Sanjeev Kumar	Internal Member
9	Dr. D. Bhanu Prakash	Internal Member
10	Mr. B. Srinivas	Internal Member
11	Mr. B. Mahesh Krishna	Internal Member
12	Mr. Ch. Harish Kumar	Internal Member





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DEPARTMENT OF MECHANICAL ENGINEERING

Agenda:

1. Review of previous BOS meeting minutes
2. Finalization of R23 Course Structure for VII and VIII Semesters.
3. Finalization of R23 Syllabus for VII and VIII Semesters.
4. Any other matter with the permission of chair.

Minutes:

BoS Chairman welcomed the University Nominee Subject Experts, Industrial Expert, Alumni Member and Faculty members.

1. Review of previous BOS Meeting minutes

The committee reviewed the 11th BOS Meeting minutes.

2. Discussion on R23 course structure of VII and VIII Semesters for B.Tech Mechanical Engineering.

The chairman presented the R23 regulation Course structure for VII and VIII Semesters. The BOS Committee discussed the Mechanical Engineering Course structure of VII and VIII semesters R23 Regulations. BOS Committee has viewed and approved the same.

The following were the suggested resolutions by the BOS members.

- Approved to include “**NON DESTRUCTIVE EVALUATION**” course in Open elective-III additionally.
- Approved to include “**AUTOMOBILE ENGINEERING**” and “**UNCONVENTIONAL MACHINING PROCESS**” in Professional elective-IV and V respectively.
- Approved the Course structure for VII and VIII semesters R23.

3. Discussion on R23 syllabus of VII and VIII Semesters for B.Tech Mechanical Engineering.

The chairman presented the R23 regulation syllabus for the courses of VII and VIII Semesters. The BOS Committee discussed the Mechanical Engineering Syllabus of VII & VIII semesters R23 Regulations. BOS Committee has viewed and approved the same.

The following were the suggested resolutions by the BOS members.

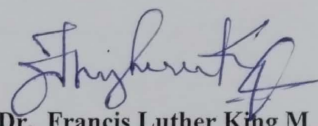
- Suggested to reduce 2nd unit content of course “**CAD/CAM**” in Professional Core.



- Suggested to replace the word by **VOLUME** in the place of **ELEMENT** in 5th unit title "**FINITE ELEMENT METHOD**" for the course of "**COMPUTATIONAL FLUID DYNAMICS**".
- Approved the modifications of experiments in MECHATRONICS LAB
- Approved the CO, PO & PSO mapping and web references for VII Semester courses in R23.
- Approved the syllabus for VII semester courses in R23.

The BOS meeting was concluded by the Chairman with a letter of gratitude to all BOS members at 12.30 PM.




Dr. Francis Luther King M
Chairman BOS
Department of ME



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Dr. R. Lalitha Narayana MOHANA KRISHNA, O...

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Swarnandhra
College of Engineering and Technology
Department of Mechanical Engineering
12th Board of Studies (BOS) Meeting

Date: 14th May, 2026
Time: 11:00 AM

Agenda:

1. Review of previous BOS meeting minutes.
2. Finalization of R23 Course structure for B.Tech VII and VIII Semester.
3. Finalization of R23 Syllabus for B.Tech VII and VIII Semester.
4. Any other matter with the permission of chair.

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B. Tech (Mech) – VII Semester Course Structure

S. No.	Category	Title	L	T	P	Credits
1	Professional Core	CAD/CAM	2	0	0	2
2	Management Course-II	Operations Research	2	0	0	2
3	Professional Core	CAD/CAM Lab	0	0	2	1
4	Professional Elective	Professional Elective-IV	3	0	0	3
5	Professional Elective	Professional Elective-V	3	0	0	3
6	Open Elective - III	1. Finite Element Methods 2. Introduction to Mechatronics 3. Product design and development 4. Advanced Materials 5. Introduction to Smart Manufacturing 6. Non Destructive Testing	3	0	1	3
7	Open Elective-IV	1. Optimization Techniques 2. Advanced Manufacturing Processes 3. Total Quality Management 4. Operations Management 5. Energy Auditing 6. Quantum Science and Technology	3	0	0	3
8	Skill Enhancement		0	0	4	2

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Swarnandhra College of Engineering and Technology
Department of Mechanical Engineering



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Dr. R. Lalitha Narayana OnePlus CP42569 Dr. Ravi P

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VII SEMESTER

21ME7009: FINITE ELEMENT METHODS (Open Elective-III)

Course Objectives:

- To learn basic principles of finite element analysis procedure
- To understand how to apply residual techniques in FEM
- To learn how to solve the bar and beam problems
- To learn how to solve beam problems
- To understand the formulation of 2D problems
- To get knowledge about transfer analysis and dynamic analysis.

Course Outcomes: At the end of the course, students will be able to

CO1: Describe stress-strain relations, equilibrium, and basic FEM concepts	K2
CO2: Apply variational and weighted residual techniques in FEM formulation	K3
CO3: Formulate and solve 1D bar and beam problems using FEM	K3
CO4: Analyze and solve beam problems	K4
CO5: Analyze beam and 2D structural elements using FEM	K4
CO6: Evaluate thermal and dynamic systems using finite element methods	K4

UNIT -1

Introduction to finite element method, stress and equilibrium, strain-displacement relations, stress-strain relations, plane stress and plane strain, formulation of residual methods, concept of

Participants (12)

- DR Dr. R. Lalitha Narayana (Co-Host, ME)
- MD Mechanical Department (Host)
- H HOD-ME (Co-Host)
- M MAHESH (Co-Host)
- S SRINIVAS BALLA
- SR Satyanarayana Ravi
- K Kumar Sathya
- DR Dr. SANJEEV KUMAR S
- DR Dr. Ravi P
- OC OnePlus CP42569
- MK MOHAN KRISHNA, ONGC
- smrithi choppala

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Dr. R. Lalitha Narayana Dr. Ravi P Dr. R. Lalitha Narayana

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Dr. R. Lalitha Narayana

Participants (14)

- DR Dr. R. Lalitha Narayana (Co-Host, ME)
- MD Mechanical Department (Host)
- H HOD-ME (Co-Host)
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- MK MOHAN KRISHNA, ONGC
- smrithi choppala
- Prem Ananth Venkateshan
- Abdul Azeez

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