



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTU-GV, Vizianagaram and Recognised under 2(f) & 12(b) by UGC, New Delhi)

NAAC Accredited with A+ grade

Tamaram (V), Makavarapalem, Narsipatnam (RD), Anakapalle Dist, Pin-531113.

Ⓜ www.avanthienggcollege.ac.in, ✉ principal_aiet@yahoo.com

Department of Mechanical Engineering

Minutes of the 1st Board of Studies (BOS) Meeting

Meeting Mode: Hybrid (Offline and Online)

Date & Time: 17th August 2024, 02:00 PM to 04:00 PM

Venue: Conference Hall, AIETM

Zoom Meeting Link: <https://us06web.zoom.us/j/82696744245?pwd=44FbBwMQUgxHhitU6eQVKc4Xx32qt0.1>

Agenda:

1. Welcome and Introduction of BOS Members.
2. Discussion, Review, and Approval of the proposed curriculum for the B.Tech Mechanical Engineering program for I B.Tech I & II Semesters, effective from the academic year 2024-2025.
3. Finalization of the syllabus for the following courses:
 - Engineering Graphics for I B.Tech I semester (Common for UG programs MECH, ECE, and EEE) & I B.Tech II semester (Common for UG programs CSE, CSE (Data Science), and CSE (AI & ML)).
 - Engineering Workshop for I B.Tech I semester (Common for UG programs MECH, ECE, EEE) & I B.Tech II semester (Common for UG programs CSE, CSE (Data Science), and CSE (AI & ML)).
 - Engineering Mechanics Theory and Lab for I B.Tech II Semester Mechanical Engineering.
 - Basic Civil & Mechanical Engineering for I B.Tech I semester (Common for UG programs CSE, CSE (Data Science), and CSE (AI & ML)) & I B.Tech II semester (Common for UG programs MECH, ECE, and EEE).
4. Discussion and Suggestions on Teaching Learning Methodology, Co-Curricular, and Extra-Curricular activities for the academic year 2024-2025.

The following members were attended for the Board of Studies (BOS) Meeting of Mechanical Engineering Department held on 17th August 2024:

1. Dr. G. Swami Naidu, Professor of Metallurgical Engineering, JNTU-GV- CEV(A), VZM (Expert Member nominated by University, JNTU-GV).
2. Dr.E.AnilKumar, Professor of Mechanical Engineering, IIT Tirupathi (Expert Member nominated by Academic Council).
3. Dr. K. N. S. Suman, Professor of Mechanical Engineering, AUCE(A), Andhra University – Visakhapatnam (Expert Member nominated by Academic Council).
4. Sri. S. V. Mallikarjuna Rao, Senior Team Lead, Tata Motors, Pune, Maharashtra (Nominated from Industry).
5. Dr. R. Sundara Ramam, Professor of Mechanical Engineering, Vignan's Institute of Information Technology(A), Visakhapatnam (Expert from outside the Autonomous College)
6. Sri. Chakravarthula Jaya Srivatsa, Sr. Design Engineer, Bosch Global Software Technologies Pvt Ltd., Coimbatore (Nominated from Alumni)
7. Dr. C P V N J Mohan Rao, Professor of Computer Science & Engineering, Principal, AIET(A)- Makavarapalem.
8. All the Faculty Members of Department of Mechanical Engineering.
9. Dr. V. Hari Kiran (Chairperson).



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Minutes:

1. Welcome and Introduction:

- Dr. C. P. V. N. J. Mohan Rao, the Principal of AIET(A) - Makavarapalem, warmly greeted and welcomed all the BOS members. He expressed his sincere thanks to UGC and JNTU-GV for conferring Autonomous status on AIET Makavarapalem, and offered heartfelt appreciation for the members' invaluable participation and contributions. He emphasized that their insights and expertise are instrumental in shaping the academic development of the department and institution, and in driving the future growth and success of AIET Autonomy. He conveyed deep gratitude for their continued support and commitment, which are crucial in elevating the institution to greater heights of academic excellence.
- Mr. A N S Surya Prakash, Assistant Professor, Department of Mechanical Engineering commenced the meeting by welcoming all the Board of Studies (BOS) members. Each member was introduced, highlighting their qualifications, affiliations, and roles.

2. Approval of the Proposed Curriculum:

- The Chairperson presented the proposed curriculum of AIET(Autonomous) for the B.Tech Mechanical Engineering program for I B.Tech I & II Semesters, set to take effect from the academic year 2024-2025.
- The curriculum, which aligns with the R23 JNTUGV syllabus, was thoroughly reviewed. After thoughtful discussion and the incorporation of minor revisions, the curriculum was unanimously approved by all BOS members for implementation as the R24 AIET Autonomous syllabus.

3. Discussion & Suggestions:

- Dr. G. Swami Naidu, BOS member from JNTU-GV, inquired about any deviations from the R23 syllabus proposed by JNTU-GV University. He sought clarification on the specific changes or modifications made in the curriculum for the R24 AIET Autonomous syllabus.
 - The inquiry was addressed, and the Chairperson provided an overview of the minor revisions made, ensuring alignment with the core objectives of the R23 syllabus while tailoring it to meet the specific needs of AIET Autonomous.
- Dr. E. Anil Kumar, BOS member from IIT Tirupathi, reviewed the proposed syllabus and expressed his full satisfaction with the content & approved the syllabus.
- Dr. K. N. S. Suman, BOS member from AUCE(A), raised a query regarding the removal of the cycloids topic from the Engineering Graphics subject. He sought clarification on the rationale behind this decision.
 - The Chairperson responded by explaining that the fundamentals of the cycloids topic are not utilized in any subsequent courses for the other branches of engineering. As a result, it was suggested to remove this topic from the first-year engineering curriculum. However, due to its significant applications in gears and their profiles, the topic will be included in more advanced courses specifically for mechanical engineering students.
- Dr. Sundar Ramam, suggested removing the topics on projections of planes inclined to another reference plane and inclined to both reference planes from the Engineering Graphics syllabus.
 - The suggestion was well received and the course syllabus is modified accordingly.



- Sri. S. V. Mallikarjuna Rao, the BOS member representing from industry, expressed his satisfaction with the current syllabus. He would provide additional suggestions and insights for the core courses of mechanical engineering in future meetings, to further enhance the curriculum's alignment with industry needs.
- Sri. Chakravarthula Jaya Srivatsa, the BOS member representing from Alumni, suggested including PMI(Product Manufacturing Information) GPS & IIS(Geometric Product Specifications/Interpretation of Industrial Standards) related concepts in future curriculum.
 - ♦ This suggestion was noted for consideration in the next curriculum revision cycle.

4. Finalization of Syllabus:

The syllabus for the following courses was presented, discussed, and finalized:

a) Engineering Graphics:

- For I B.Tech I semester (Common for UG programs MECH, ECE, and EEE).For I B.Tech II semester (Common for UG programs CSE, CSE (Data Science), and CSE (AI & ML)).

b) Engineering Workshop:

- For I B.Tech I semester (Common for UG programs MECH, ECE, and EEE).For I B.Tech II semester (Common for UG programs CSE, CSE (Data Science), and CSE (AI & ML)).

c) Engineering Mechanics Theory and Lab:

- For I B.Tech II Semester Mechanical Engineering.

d) Basic Civil & Mechanical Engineering:

- For I B.Tech I semester (Common for UG programs CSE, CSE (Data Science), and CSE (AI & ML)).For I B.Tech II semester (Common for UG programs MECH, ECE, and EEE).

- The finalized syllabi were approved with minor amendments suggested by the BOS members.

5. Teaching Learning Methodology and Activities:

- The members discussed various approaches to enhance teaching and learning methodologies for the upcoming academic year.
- Suggestions were made for integrating co-curricular and extra-curricular activities to promote holistic student development.
- It was agreed that innovative teaching methods and industry interactions should be emphasized for the academic year 2024-2025.

6. Conclusion:

- The Chairperson expressed gratitude to all members for their valuable input and active participation in the meeting.
- The meeting was adjourned at 03:00 PM, with a commitment to implementing the approved changes and suggestions.

Action Items:

- The agreed changes to the syllabus and curriculum will be implemented and communicated to all relevant departments.
- The incorporation of PMI, GPS/IIS-related concepts will be considered in the next curriculum revision.

Next Meeting: The date for the next BOS meeting will be scheduled and communicated in due course.



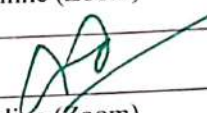
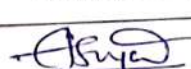
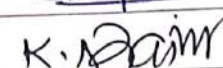
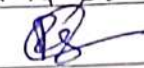
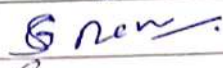
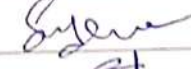






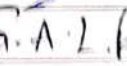

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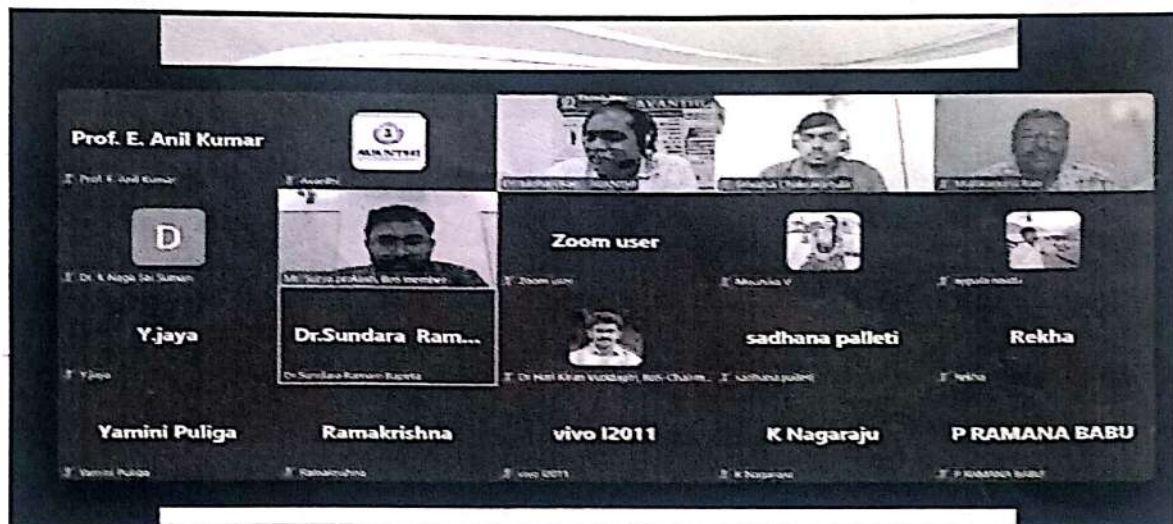
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Members Present:

S. No	Board members	Signature
1.	Dr. G. Swami Naidu, Professor	Online (Zoom)
2.	Dr. E. Anil Kumar, Professor	Online (Zoom)
3.	Dr. K. N. S. Suman, Professor	Online (Zoom)
4.	Sri. S. V. Mallikarjuna Rao, Senior Team Lead	Online (Zoom)
5.	Dr. R. Sundara Ramam, Professor	Online (Zoom)
6.	Sri. Chakravarthula Jaya Srivatsa, Sr. Design Engineer	Online (Zoom)
7.	Dr. C P V N J Mohan Rao, Professor	
8.	Dr. V. Hari Kiran (Chairperson).	Online (Zoom)
9.	Mr. A N S Surya Prakash, Assistant Professor	
10.	Mr. K Naga Raju, Assistant Professor	
11.	Mr. K V N S Ramakrishna, Assistant Professor	
12.	Mr. G Siva Ram, Assistant Professor	
13.	Ms. P Sadhana, Assistant Professor	
14.	Mrs. Y Jaya Santhoshi, Assistant Professor	
15.	Mr. P Ramana Babu, Assistant Professor	
16.	Mr. B Rama Krishna, Assistant Professor	
17.	Mrs. V Mounica, Assistant Professor	
18.	Mrs. K Sandhya, Assistant Professor	
19.	Mr. K Sriram Kumar, Assistant Professor	
20.	Mr. K Srinivasa Rao, Assistant Professor	
21.	Mrs G Rekha, Assistant Professor	



[Signature]
Chairperson

Board of Studies (ME)

Chairperson

Board of Studies (ME)

Avanthy Inst. of Engg. & Tech (Autonomous)

Wakavomolam P.O. Andhra Pradesh