



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY

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Minutes of the Meeting of Sixth Board of Studies

The Sixth Board of Studies Meeting of the Department of Mechanical Engineering was held on 04-05-2026 at 01:30 PM in Technology Business Incubator, Lords Institute of Engineering and Technology, Hyderabad.

S.No	Name with Designation	External/Internal	Signature
1.	Dr. Syed Azam pasha Quadri Professor and HOD, Dept. of Mechanical Engineering, Lords Institute of Engineering and Technology, Hyderabad.	Chairman, BoS	 04/05/2026
2.	Prof. M. Chandra Sekhar Reddy, Professor, Department of Mechanical Engineering, University College of Engineering (Autonomous) Osmania University, Hyderabad.	University (OU Nominee)	 4/5/26
3.	Dr. V.V. Satyanarayana Professor, Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad.	External Member (Subject Expert)	 4/5/26
4.	Dr. Manmadhachary Aiamunoori Associate Professor, Department of Mechanical Engineering, ICFAI Foundation for Higher Education (Deemed University), Hyderabad.	External Member (Subject Expert)	 4/5/26
5.	Mr. N V S Ramachandra Rao Manager (CNC & Heavy Parts), HMT (Praga Division), Hyderabad.	External Member (Industry Expert)	 4-5-26
6.	Mr. Mohammed Amjad, Operations Lead, Hyderabad.(Alumni)	External Member (Alumni)	 4/5/26
7.	Dr. Anwarullah, Professor, MED., LIET (A).	Internal Member	 4/5/26
8.	Dr. Md. Misbahuddin, Associate Professor, MED., LIET (A).	Internal Member	 4/5/26
9.	Dr. Sumeet Hangargi, Associate Professor, MED., LIET (A).	Internal Member	 4/5/26
10.	Dr. Mohd Asif Kattimani, Assistant Professor, MED., LIET (A).	Internal Member	 4/5/26
11.	Mr. Ramavath Suman, Assistant Professor, MED., LIET (A).	Internal Member	 04/5/2026
12.	Mr. Samatham Madhukar, Assistant Professor, MED., LIET (A).	Internal Member	 4/5/26
13.	Mr. D. H. Pachchinavar, Assistant Professor, MED., LIET (A).	Internal Member	 4/5/26

Permanent Invitee: 1. Dr. Ravi Kishore Singh, Principal, LIET (A)

2. Dr. J Sasi Kiran, Professor CSE & Dean – Planning & Coordination, LIET (A)

AGENDA:

1. Introduction and formal welcome of BOS members and invited experts.
2. Confirmation of the minutes of the previous meeting 26-06-2025 (Annexure -1)
3. Overview of meeting objectives and expected outcomes.
4. Discussion and approval of LR-26 Undergraduate Program Course Structure (Annexure -2)
5. Discussion and approval of LR-24 Undergraduate Program V & VI semester syllabi and review of course structure. (Annexure -3)
6. Discussion and approval of LR-23 Undergraduate Program VII & VIII semester syllabi and review of course structure. (Annexure -4)
7. Approval of Service Courses and Open Electives under LR-26, LR-24, and LR-23. (Annexure -5)
8. Discussion and approval of regulation transition matters such as re-admission rules, substitute subjects, and equivalence mapping. (Annexure -6)
9. Approval of Honours and Minor Degree structure, syllabi, and implementation guidelines. (Annexure -7)
10. Approval of NPTEL course titles equivalent to Professional Electives. (Annexure -8)
11. Ratification of panel of paper setters and external examiners.
12. Discussion on curriculum alignment with NEP-2020, OBE, and industry needs.
13. Suggestions on innovative teaching methodologies, research, extension, and academic activities.

Item No. 1: Introduction and formal welcome of BOS members and invited experts.

Deliberation: Dr.Syed Azam Pasha Quadri, HOD-ME & Chairman-BOS, welcomed the members of the Board of Studies, Principal and other faculty members to the meeting followed by the discussion on the agenda mentioned above:

- BOS Chairperson introduced the BOS members to the respected Principal and the faculty members of the department introduced themselves to the honorable University Nominee, External Members, Member Corporate Sector and the Alumni.
- BOS Chairperson further presented the brief profile of the department.

Resolution: Noted and Approved

Item No. 2: Confirmation of the minutes of the previous meeting 26-06-2025 (Annexure -1)

The minutes of the fifth Board of Studies meeting held on 26-06-2025 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved without any comments by the 6th Board of studies.

Resolution: Noted and Approved


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Item No. 3: Overview of meeting objectives and expected outcomes.

Deliberation: Following the welcome address, the Chair presented the objectives of the meeting and highlighted the role of the Board of Studies (BoS) in developing a future-ready, industry-aligned, and outcome-based curriculum for the Department of Mechanical Engineering.

The primary objective was to review and update the curriculum in line with the National Education Policy (NEP) 2020, AICTE guidelines, Outcome-Based Education (OBE), and emerging technological advancements to enhance student competencies and employability.

The Board deliberated on the following key aspects:

- Revision of the curriculum to incorporate emerging technologies, Industry 4.0/5.0 concepts, Artificial Intelligence, sustainability, and digital engineering practices.
- Introduction of multidisciplinary electives, skill-based courses, experiential learning, internships, and project-based learning opportunities.
- Alignment of Course Outcomes (COs) with Program Outcomes (POs), Program Specific Outcomes (PSOs), and graduate attributes.
- Review of stakeholder feedback from faculty, students, alumni, and industry experts for continuous curriculum improvement.
- Strengthening assessment strategies, industry collaboration, research, innovation, entrepreneurship, and professional certification opportunities.

The Chair appreciated the valuable suggestions of the BoS members and emphasized that the revised curriculum should remain academically rigorous, industry-relevant, and adaptable to future technological advancements. The expected outcome of the meeting was the approval of a modern, flexible, and outcome-based curriculum that enhances student learning, employability, innovation, and lifelong learning.

Resolution: Noted and Approved

Item No. 4: Discussion and approval of LR-26 Undergraduate Program Course Structure (Annexure -2)

Deliberation: The Board examined the course structure under the LR-26 regulation, as presented in Annexure-2. Key changes, including content updates, restructured lab components, and subject revisions, were discussed in detail.

The BoS members have noted, discussed and approved the course structure with minor suggestions as mentioned below

- ❖ The University Nominee suggested replacing the course Mechatronics Systems (U26ME509) with Reliability Engineering (U26ME509) in Semester V. The proposal was deliberated considering the increasing significance of reliability, maintenance engineering, and quality assurance in modern


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industrial applications. The Board appreciated the recommendation and agreed that the revised course would enhance students' analytical skills and better prepare them to address reliability and maintenance challenges in engineering practice.

- ❖ The External Members suggested replacing the course Quality and Reliability Engineering (U26ME605) with Control Systems (U26ME605) and Industrial Automation (U26ME608) with Drone Technology (U26ME608) in Semester VI. The proposal was deliberated in view of the increasing relevance of control engineering, automation, and unmanned aerial technologies in modern engineering applications. The Board appreciated the suggestions and agreed that the revised courses would better align the curriculum with emerging technological trends, industry requirements, and enhance students' employability and technical competencies.
- ❖ The University Nominee and External Members suggested reducing the academic load in Semester VIII to enable students to undertake extended internships in government organizations, public sector undertakings (PSUs), and private industries. The members emphasized that increased industry exposure during the final semester would provide students with practical experience, enhance their technical and professional competencies, improve employability, and facilitate a smoother transition from academia to industry.
- ❖ The Board deliberated extensively on the proposal, considering its academic feasibility, compliance with regulatory guidelines, and its potential benefits to student learning outcomes. The members observed that a streamlined final semester would create greater flexibility for internships, industry-sponsored projects, and experiential learning without compromising the attainment of Program Outcomes (POs) and graduation requirements.
- ❖ After detailed discussion, the Board resolved to recommend the proposal to the Academic Council for consideration and approval, with a view to implementing a curriculum structure that supports enhanced industry engagement while maintaining academic rigor and quality.

Resolution: Noted and Approved

Item No. 5: Discussion and approval of LR-24 Undergraduate Program V & VI semester syllabi and review of course structure. (Annexure -3)

Deliberation: The Board examined the revised course structure and syllabus for the V and VI semesters under the LR-24 regulation, as presented in Annexure-3. Key changes, including content updates, restructured lab components, and subject revisions, were discussed in detail.

The BoS members have noted, discussed and approved the course structure with minor suggestions as mentioned below


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- ❖ The University Nominee suggested replacing the course Mechatronics Systems (U24ME509) with Reliability Engineering (U24ME509) in Semester V. The proposal was discussed in view of the growing importance of reliability engineering, predictive maintenance, and quality management in modern engineering industries. The Board appreciated the recommendation and agreed that the revised course would strengthen students' understanding of reliability analysis, maintenance strategies, and industrial quality practices.
- ❖ The External Members suggested replacing Quality and Reliability Engineering (U24ME605) with Control Systems (U24ME605) and Industrial Automation (U24ME608) with Drone Technology (U24ME608) in Semester VI. The Board deliberated on the proposal considering the rapid advancements in automation, intelligent control, and unmanned aerial systems across industrial sectors. The members agreed that these revisions would modernize the curriculum, enhance students' exposure to emerging technologies, and improve their technical competencies and industry readiness.
- ❖ The External Member suggested the addition of contemporary topics to the course Total Quality Management (U24ME504) to reflect recent developments in quality engineering and industrial practices. The Board deliberated on the proposal and recommended incorporating topics such as Lean Manufacturing, Six Sigma, Quality 4.0, Statistical Process Control (SPC), and Digital Quality Management. The members agreed that these additions would enrich the course content, align it with current industry practices, and enhance students' understanding of modern quality management techniques.
- ❖ The University Nominee suggested incorporating additional contemporary topics into the course Production and Operations Management (U24ME507) to align the syllabus with current industrial practices and technological advancements. The Board deliberated on the proposal and recommended including topics such as Industry 4.0, Smart Manufacturing, Digital Supply Chain Management, Lean Production, and Sustainable Operations Management. The members agreed that these additions would strengthen students' understanding of modern production systems and enhance their industry readiness.
- ❖ The External Members suggested the addition of experiments on Pitot Tube, V-Notch, and Rectangular Notch in the Mechanics of Fluids and Hydraulic Machinery Laboratory (U24ME5L1). The Board deliberated on the proposal and observed that these experiments would strengthen students' understanding of flow measurement and hydraulic principles through hands-on learning. The members agreed that incorporating these experiments would enhance practical competencies, improve laboratory outcomes, and align the laboratory curriculum with contemporary academic and industry requirements.
- ❖ The Alumni Member suggested incorporating additional contemporary topics into the course Robotics (U24ME608) to reflect recent advancements in automation and intelligent robotic systems. The Board


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deliberated on the proposal and recommended including topics such as Collaborative Robots (Cobots), Artificial Intelligence in Robotics, Machine Vision, Autonomous Mobile Robots (AMRs), and Industrial Robot Programming. The members agreed that these additions would enhance the course content, align it with emerging industry trends, and improve students' technical competencies and employability.

Resolution: Noted and Approved

Item No. 6: Discussion and approval of LR-23 Undergraduate Program VII & VIII semester syllabi and review of course structure. (Annexure-4)

Deliberation: The Board of Studies examined the revised course structure and syllabus for the VII and VIII semesters as per the LR-23 regulation, presented in Annexure-4. Members discussed the proposed modifications, including updates to theory subjects, practical's, and electives to better address current academic standards and industry needs. The BoS members have noted, discussed and approved the course structure with minor suggestions as mentioned below

- ❖ The University Nominee suggested incorporating additional topics into Metrology and Instrumentation (U23ME701) to align the course with recent advancements in precision measurement and industrial instrumentation. The Board deliberated on the proposal and agreed to include contemporary concepts to strengthen students' practical knowledge and industry readiness.

Resolution: Noted and Approved

Item No. 7: Approval of Service Courses and Open Electives under LR-26, LR-24, and LR-23. (Annexure -5)

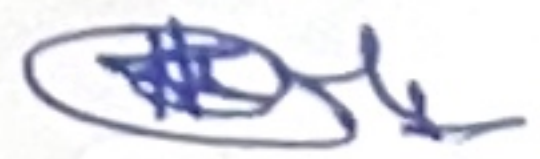
Deliberation: The Board reviewed the proposed Service Courses and Open Electives under LR-26, LR-24, and LR-23 (Annexure-5). After detailed deliberation, the members found the courses to be relevant, interdisciplinary, and aligned with curriculum objectives. The Board unanimously approved the proposed Service Courses and Open Electives for implementation under the respective regulations.

Resolution: Noted and Approved

Item No. 8: Discussion and approval of regulation transition matters such as re-admission rules, substitute subjects, and equivalence mapping. (Annexure -6)

Deliberation: The Board reviewed the list of courses proposed for students seeking re-admission under the transition from LR-21 to LR-23 and LR-21 to LR-24 regulations, as detailed in Annexure-6. The members discussed the equivalence of courses, credit transfers, and academic continuity to ensure a smooth transition for re-admitted students. After thorough evaluation, the Board approved the recommended courses and associated guidelines for re-admissions.

Resolution: Noted and Approved


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Item No. 9: Approval of Honours and Minor Degree structure, syllabi, and implementation guidelines. (Annexure -7)

Deliberation: The Board reviewed the proposed Honors and Minor Engineering Degree courses under the LR-24 regulation, as detailed in Annexure-7. Members discussed the curriculum structure, eligibility criteria, and the potential benefits these programs offer in enhancing student specialization and interdisciplinary learning. After thorough evaluation, the Board approved the Honors and Minor Engineering Degree courses for implementation in the forthcoming academic sessions.

Resolution: Noted and Approved

Item No. 10: Approval of NPTEL course titles equivalent to Professional Electives. (Annexure -8)

Deliberation: The Board reviewed the list of NPTEL course titles proposed as equivalents to the department's Professional Elective courses, as presented in Annexure-8. Members discussed the relevance, content coverage, and academic rigor of the selected NPTEL courses. The Board acknowledged the value of integrating these courses to provide students with flexible learning options and broaden their academic exposure. After careful consideration, the Board approved the proposed NPTEL courses as equivalent to the respective Professional Electives.

Resolution: Noted and Approved

Item No. 11: Ratification of panel of paper setters and external examiners.

Deliberation: The Board reviewed the proposed panel of paper setters. Members discussed the qualifications and expertise of the candidates to ensure they meet the required academic standards. After thorough consideration, the Board ratified and approved the panel of paper setters for the upcoming examination sessions.

Resolution: Noted and Approved

Item No. 12: Discussion on curriculum alignment with NEP-2020, OBE, and industry needs.

Deliberation: The Board deliberated on aligning the LR-26 curriculum with the objectives of NEP 2020, Outcome-Based Education (OBE), and evolving industry requirements. The members emphasized the importance of developing a flexible, multidisciplinary, and skill-oriented curriculum that enhances student competencies, innovation, and employability.

- ❖ The Board also noted that the implementation of NEP 2020 under LR-26 is subject to the issuance of detailed guidelines by the University and the Government of Telangana. It was agreed that major curriculum revisions would be undertaken only after receiving the official policy framework to ensure regulatory compliance and uniform implementation.
- ❖ The Board resolved to closely monitor future developments and revisit the curriculum revision process upon receipt of the official guidelines. In the meantime, the Department will continue stakeholder consultations and preliminary planning to facilitate timely and effective implementation.


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Resolution: Noted and Approved

Item No. 13: Suggestions on innovative teaching methodologies, research, extension, and academic activities.

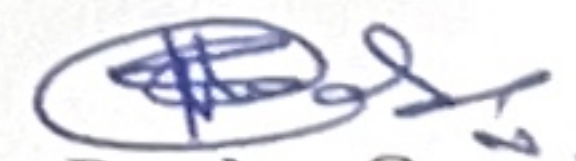
Deliberation: The Board deliberated on the adoption of innovative teaching-learning methodologies to enhance student engagement, experiential learning, and academic outcomes. The members recommended promoting blended learning, project-based learning, flipped classrooms, virtual laboratories, and simulation-based teaching, supported by faculty development initiatives.

- ❖ The Board also emphasized strengthening institute-industry collaboration through the effective organization of workshops, industrial visits, expert lectures, seminars, internships, and industry-sponsored activities. It was agreed that these initiatives would enhance practical exposure, bridge the gap between academia and industry, and improve students' employability and professional competencies.

❖ **Resolution: Noted and Approved**

Item No. 14: Any other item with the permission of the Chair

- BoS Chairperson is suggested to modify the course syllabus as per the above suggestions given by the members.
- Members of Board of Studies recommended the above resolutions to be presented in the Academic Council for approval.
- BOS Chairperson proposed vote of thanks to all the BOS members for spending their valuable time in reviewing the course structures & syllabi, was also grateful to all the Deans and HODs of other departments, faculty members for the support in designing course structures of UG.
- BOS chairperson was thankful to the principal for incessant guidance and the Management for constant encouragement and support.
- The meeting was concluded with the approval of University Nominee and consensus of all BOS Members.



Dr. Azam Pasha Quadri

BoS Chairperson and Head,

Head of the Department
Department of Mechanical Engineering,
Mechanical Engineering

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