



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(An Autonomous Institution since 2010)

Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada

L.B. Reddy Nagar, Mylavaram, NTR District, Andhra Pradesh - 521230



DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 02-09-2026

The board of studies (BoS) meeting of Mechanical Engineering is scheduled on **03-09-2026 at 10.00 AM** through online mode in Microsoft Teams. All the BoS members are requested to attend the meeting and contribute their wisdom.

Agenda of BoS Meeting (Online) being held on 03-09-2026

1. Confirmation of minutes of 22nd BoS meeting held on 16-05-2026.
2. Review of Action Taken Report (ATR) on the minutes of 22nd BoS meeting held on 16-05-2026.
3. Discussion and Approval of Course Structure of B.Tech (R26) I to VIII semesters & Syllabi of I and II semesters, specification of COs and CO-PO articulation matrix.
4. Information on New Courses introduced in B.Tech (R26).
5. Information and discussion on POs & PSOs attainment and ATR for class of 2026.
6. Information on Academic Performance of the students for the A.Y. 2025-26 (Even Sem).
7. Information & Discussion on Teaching-Learning Process, R&D and Training & Placement Activities for the A.Y.: 2025-26.
8. Information on events organized & Attended for the A.Y.: 2025-26.
9. Any other matter with permission of chair.

M. B. S. Reddy

Head of the Department

HEAD
Dept. of Mechanical Engineering
LAKIREDDY BALI REDDY COLLEGE OF ENGG.
MYLAVARAM-521 230., KRISHNA DT, A.P.

Minutes of BoS meeting held on 03-09-2026

Dr.M.B.S.Sreekara Reddy, the Chairman, Board of Studies in Mechanical Engineering welcomed the members to the meeting and presented the items of the agenda as cited below for discussion, consideration and approval.

1. Confirmation of minutes of 22nd BoS meeting held on 16-05-2026.

- The minutes of 22nd Board of Studies meeting held on 16-05-2026 are confirmed with the consent of honorable members.

2. Review of Action Taken Report (ATR) on the minutes of 22nd BoS meeting held on 16-05-2026.

Item No	Item	BoS Committee decision
1	Discussion and Approval of Syllabi and Course Structure of M.Tech(R25), B.Tech(R23) VII and VIII semesters, MOOCs, specification of COs and CO-PO articulation matrix.	Modifications Incorporated and Approved
2	Information on New Courses introduced in B.Tech (R23).	Noted
3	Approval of SWAYAM courses for Minor/Honor program for the A.Y 2026-27.	Modifications Incorporated and Approved
4	Information on Academic Performance of the students for the A.Y 2025-26 (Odd Sem).	Noted
5	Information & Discussion on R&D and Training & Placement Activities for the A.Y.: 2025-26.	Noted
6	Information on events organized & Attended for the A.Y.: 2025-26.	Noted
7	Information on Calendar of events for the A.Y.: 2026-27.	Noted

3. Discussion and Approval of Course Structure of B.Tech (R26) I to VIII semesters & Syllabi of I and II semesters, specification of COs and CO-PO articulation matrix.

- Academic Expert Dr.A.Kumar suggested to change the “Operations Research” course as Program Elective and “Industrial Engineering & Management” course as compulsory course in the V Semester.
- Academic Expert Dr.A.Kumar suggested to add “Additive Manufacturing” course instead of “Advanced Manufacturing Processes” course in VI Semester.
- Academic Expert Dr.A.Kumar suggested to add one chapter of “Data Analytics for Mechanical Engineers” course into “Machine Learning Applications for Mechanical Engineers” course in VI Semester.
- Academic Expert Dr.A.Kumar suggested to add one more course related to core Mechanical Engineering/Other discipline in the place of “Data Analytics for Mechanical Engineers” course in V Semester.
- Academic Expert Dr.A.Kumar suggested to divide the “Project Work” course in VIII semester into two parts like Part-A and Part-B. The Part-A in the VII Semester and Part-B in the VIII semester.
- Academic Expert Dr. A. Kumar suggested that students should practice manual drawing up to the topic “Projections of Simple Solids.” Thereafter, AutoCAD software should be introduced for completing the remaining topics in the Engineering Graphics course.
- Academic Expert Dr.A.V.S.S.K.S.Gupta suggested to make necessary changes to the course structure.
- Industry Expert Mr. R. Yogananda Reddy suggested reviewing the syllabi of both courses to identify and eliminate any repetition of topics while integrating the two courses.
- University nominee Dr.A.Krishna Bhaskar suggested to make necessary changes to the course structure.

4. Information on New Courses introduced in B.Tech (R26).

- The BoS chairman presented new courses introduced in the B.Tech R26 regulation, all the honorable members are noted.

5. Information and discussion on POs & PSOs attainment and ATR for class of 2026.

- The BoS chairman presented the Cos attainment and POs & PSOs attainment values and ATR of batch 2022-26 before the honorable members. The honorable members are discussed, noted and approved the action taken reports on COs, POs & PSOs attainments.

6. Information on Academic Performance of the students for the A.Y. 2025-26 (Even Sem).

- The BoS chairman informed about the academic performance of the students for the Even semester courses of the A.Y:2025-26. It was informed that the courses with poor pass percentage were identified and the honorable members are suggested to conduct remedial classes for the students having backlogs.

7. Information & Discussion on Teaching-Learning Process, R&D and Training & Placement Activities for the A.Y.: 2025-26.

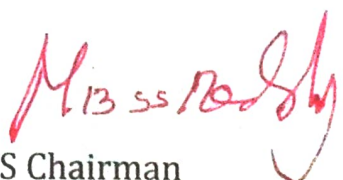
- The teaching learning processes of the department is discussed and suggestions by the honorable members are noted.
- The R&D activities of the department are presented and put forward for discussion. Honorable members appreciated research contributions of the faculty in terms of publications and suggested to work more on funded projects.
- Honorable members suggested to increase the quality placements and also impart training to students by industry experts.

8. Information on events organized & Attended for the A.Y.: 2025-26.

- The chairman presented the members about events organized by the department and put forward for discussion and suggestions are recorded.

9. Any other matter with permission of chair.

The chairman, BOS thanked all the members for their active participation, constructive suggestions and encouragement.


BoS Chairman

HEAD
Dept. of Mechanical Engineering
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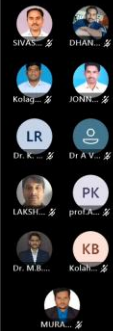
Screenshots of BoS Meeting held on 03/09/2026

Agenda:

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Dr. M.B.S. SREEKAR REDDY



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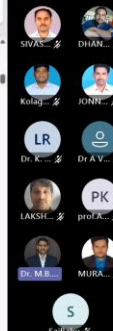
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S. No.	Course Code	Course Title	Contact hours/week			Credits	Scheme of Valuation		
			L	T	P		CIE	SEE	Total
Theory Courses									
1		English for Technical Communication	3	0	0	3	40	60	100
2		Linear Algebra & Calculus	3	0	0	3	40	60	100
3		Physics for Mechanical Systems	3	0	0	3	40	60	100
4		Computational Thinking & Problem Solving through Python	3	0	0	3	40	60	100
5		Environmental Studies	2	0	0	0	100	00	100
Laboratory Courses									
6		English for Technical Communication and MOODLE Lab	0	0	3	1.5	50	50	100
7		Physics for Mechanical Systems Lab	0	0	3	1.5	50	50	100
8		Computational Thinking & Problem Solving through Python Lab	0	0	3	1.5	50	50	100
9		Engineering Graphics	0	1	3	2.5	50	50	100
10		AI Tools & Applications	0	1	3	2.5	50	50	100
Total			14	2	15	21.5	510	490	1000

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5. Enable students to communicate engineering design information effectively through freehand sketches, conventional drawings and digital CAD models across different engineering disciplines.

SECTION A - Manual Engineering Drawing

Exp. Practical Exercise

1. **Fundamentals of Engineering Drawing:** Lines, lettering, dimensioning, geometrical constructions, symbols and standard drawing conventions
2. **Engineering Curves:** Construction and applications of ellipse, parabola, hyperbola, cycloid, involute and other commonly used engineering curves
3. **Scales:** Construction and application of plain and diagonal scales for representing engineering dimensions
4. **Projection of Points and Straight Lines:** Projection of points in different quadrants and straight lines in different orientations
5. **Projection of Planes:** Projection of simple planes parallel, perpendicular and inclined to reference planes
6. **Projection of Solids and Engineering Objects:** Projection of basic solids and simple engineering objects in different orientations
7. **Orthographic and Isometric Views:** Conversion between orthographic and isometric representations of simple engineering objects and systems
8. **Sections of Solids and Engineering Objects:** Sectional views and true shapes of simple solids and objects
9. **Development of Surfaces:** Development of surfaces of prismatic, cylindrical, pyramidal, conical and other developable forms
10. **Freehand Engineering Sketching:** Freehand sketching, proportioning and dimensioning of simple engineering components, objects, assemblies and systems

SECTION B - Computer-Aided Engineering Graphics (CAD)

Exp. Practical Exercise

11. **Introduction to 2D CAD:** Drawing setup, basic drawing and editing commands, layers,

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3, ME-426 syllabus upto 1st year

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2. Collision analysis of two spheres undergoing direct central impact.

Exercise / Practice Problems

1. Determine the acceleration and velocity of a block pulled up an incline using Newton's second law.
2. Solve a work-energy problem for a body moving under a variable force.
3. Determine the velocities after direct central impact of two bodies given the coefficient of restitution.

Unit V: Kinematics and Kinetics of Rigid Bodies (Plane Motion)

Unit Title: Kinematics and Kinetics of Rigid Bodies (Plane Motion)

Topics / Contents:

- Types of rigid body motion: translation, rotation about a fixed axis, general plane motion.
- Instantaneous centre of rotation; velocity analysis using the instantaneous centre method.
- Relative velocity and relative acceleration methods for plane motion; D'Alembert's principle applied to rigid bodies; equations of motion for plane motion.
- Introduction to the principle of virtual work and its application to the equilibrium of mechanisms.

AI Integration with Contents:

Use of AI-driven mechanism simulation software to model rigid-body plane motion (linkages, wheels) and verify velocity/acceleration diagrams constructed manually.

Unit Learning Outcomes:

Students will be able to analyze the plane motion of rigid bodies and apply the principle of virtual work to the equilibrium of simple mechanisms.

Practical

1. Velocity analysis of a four-bar mechanism using the instantaneous centre

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Dr. M.B.S. SREEKAR REDDY

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6. Information on Academic Performance of the students for the A.Y. 2025-26 (Even Sem).

The academic performance of students in the Even semester of the A.Y 2025-26 is :

S.No	Semester	Pass Percentage	Subjects with low pass percentage(%)
1	II	45.00	IP(53.33), DE&VC(76.67),EM(80)
2	IV	75.36	FM&HM (84.06), TOM(85.51)
3	VI	76.19	HT(82.54), FEM(85.71)
4	VIII	100	Nil

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7. Information & Discussion on R&D

Summary of R&D Activities

July -2025 to May 2026	Research Articles						Book Chapter/ Books	Patents Published/Granted
	SCI/SCIE	ESCI	Scopus		UGC/Other	Total		
			Journals	Proceedings				
	9	6	3	13	2	33	8/2	13/2

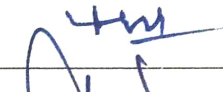
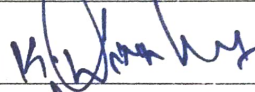
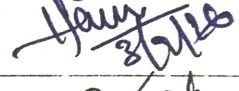
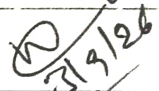
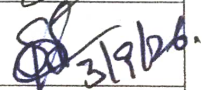
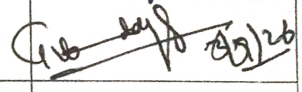
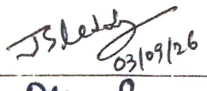
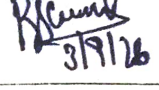
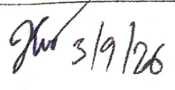
➤ Dr.P.Vijay Kumar & Dr.P.Ravindra Kumar got Project Seminar Grant worth of 1.5 Lakhs.

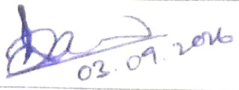
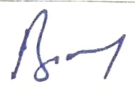
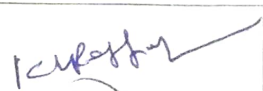
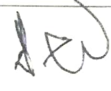
➤ M.Gowtham(22761A0322), IV Year student got MSME project grant worth of 15 Lakhs under the guidance of Dr.B.Sudheer Kumar.

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Dr. M.B.S. SREEKAR REDDY

Signatures of BoS Members:

S. No.	BoS Hierarchy	Name & Designation	Signature
1.	Chairman	Dr.M.B.S.Sreekara Reddy, Professor & HoD LBR College of Engineering	
2.	University Nominee	Dr.A.Krishna Bhaskar, Associate Professor Department of Mechanical Engineering JNTUK, Kakinada	Attended Online
3.	Subject Expert (Academic)	Dr.A.Kumar, Professor Department of Mechanical Engineering NITW, Warangal	Attended Online
4.	Subject Expert (Academic)	Dr.A.V.S.S.K.S.Gupta, Senior Professor Department of Mechanical Engineering JNTUH, Hyderabad	Attended Online
5.	Subject Expert (Industry)	R.Yogananda Reddy, Scientist E-DRDO, Hyderabad	Attended Online
6.	Alumni Member	Dr.T.Rama Krishna, Thermal Simulation Expert, Schneider Electric R&D, Bangalore	Attended Online
7.	Internal Faculty	Dr.S.Pichi Reddy, Professor	
8.	Internal Faculty	Dr.P.V.Chandra Sekhar Rao, Professor	
9.	Internal Faculty	Dr.K.Dilip Kumar, Professor	
10.	Internal Faculty	Dr.K.Murahari, Associate Professor	
11.	Internal Faculty	Dr.V.Dhana Raju, Associate Professor	
12.	Internal Faculty	Dr.Ch.Siva Sankara Babu, Associate Professor	
13.	Internal Faculty	Mr. S.Srinivasa Reddy, Associate Professor	
14.	Internal Faculty	Mr.J.Subba Reddy, Associate Professor	
15.	Internal Faculty	Dr. B.Sudheer Kumar, Sr. Assistant Professor	
16.	Internal Faculty	Dr.A.Nageswara Rao Sr. Assistant Professor	AICTE - Fellowship
17.	Internal Faculty	Dr.A.Dhanunjay Kumar Sr. Assistant Professor	
18.	Internal Faculty	Mr.K.V.Viswanadh Sr. Assistant Professor	

19.	Internal Faculty	Mr.K.Lakshmi Prasad Sr. Assistant Professor	 02.09.2016
20.	Internal Faculty	Mr.V.Sankara Rao Sr. Assistant Professor	
21.	Internal Faculty	Mr.D.Mallikarjuna Rao Sr. Assistant Professor	
22.	Internal Faculty	Mrs.B.Kamala Priya Sr. Assistant Professor	
23.	Internal Faculty	Mr.K.Venkateswara Reddy Sr.Assistant Professor	
24.	Internal Faculty	Mr.K.Sai Babu Assistant Professor	
25.	Internal Faculty	Mr.S.Uma Maheswara Reddy Assistant Professor	