

MINUTES OF THE FIRST BOARD OF STUDIES MEETING
DEPARTMENT OF AUTOMOBILE ENGINEERING

Date: 24-02-2026

Time: 3:00 PM

Mode: Hybrid

Venue: Department of Automobile Engineering

MEMBER'S PRESENT

- | | |
|---------------------------|--|
| • R. Rambabu | – Head of the Department (Chairperson) |
| • E. Pullarao | – Assistant Professor |
| • V. Narendra | – Assistant Professor |
| • Sk. Baji | – Assistant Professor |
| • V. Durgarao | – Assistant Professor |
| • Dr. Nagarjuna Kumma | – Subject Expert |
| • Dr. B. Harish Babu | – Subject Expert |
| • Dr. I. Sri Phani Sushma | – University Nominee |
| • Ashok Kumar | – Industry Expert |
| • V. Manoj Kumar | – Alumni |

Members Absent: Nil

AGENDA

1. Welcome Note
2. About Autonomous Status
3. About Department
4. Programme Structure
5. Syllabus Ratification
6. Examination System
7. Academic Regulations
8. Industry Interaction
9. Any other issues with the permission of the chair
10. Vote of thanks

DISCUSSIONS & RESOLUTIONS

1. Welcome Note

The meeting started with a warm welcome by the Chairperson, Mr. R. Rambabu. He welcomed all the members and thanked them for their presence. All the members were briefly introduced.

Resolution:

The Board noted the welcome.

2. About Autonomous Status

The Chairperson explained what autonomous status means and how it helps the department to improve the curriculum and teaching methods. He mentioned that it gives flexibility to introduce new ideas in academics.

Resolution:

The Board agreed to make good use of this opportunity to improve the curriculum.

3. About Department

The Chairperson shared the details of the department, including the year of establishment (2010), intake, approvals from AICTE, and affiliation to JNTUK. He also explained that the programme duration is four years.

He informed that the students of the department have secured 7 University Gold Medals, showing the strong academic performance of the department.

The vision and mission of the department were also explained.

Resolution:

The Board appreciated the achievements of the department and suggested giving more importance to practical learning and industry exposure.

4. Programme Structure

The programme structure, including subjects, labs, and credits, were discussed. It was explained that the department is following the JNTUK R23 curriculum.

Resolution:

The Board Ratified the programme structure.

5. Syllabus Ratification

The syllabus for the first-year courses was presented. It was informed that the department is following the JNTUK R23 syllabus.

The members suggested continuing the same syllabus for the present. They also suggested that new topics like Electric Vehicles, Alternative Fuels, and Automobile Electronics may be added in future.

Resolution:

The Board Ratified the continuation of the JNTUK R23 syllabus and suggested future updates.

6. Examination System

The evaluation methods such as internal exams, semester exams, lab exams, and project evaluation were discussed.

Resolution:

The Board Ratified the examination system.

7. Academic Regulations

The rules related to credits, grading, and promotion were discussed.

Resolution:

The Board Ratified the academic regulations.

8. Industry Interaction

The need for industry exposure was discussed. Internships, workshops, and certification courses were suggested.

Resolution:

The Board suggested improving industry interaction.

9. Any other issues with the permission of chair

The members discussed about including recent advancements in the Automobile Engineering field, such as Artificial Intelligence, IoT, and Embedded Systems in Automobiles.

It was suggested to introduce these topics for the 3rd year and final year students of the R23 batch to improve their knowledge on modern technologies.

The members also suggested that in the next regulation, these advanced topics can be included from the 1st year level itself as part of the syllabus units.

The Chairperson agreed to consider these suggestions in future curriculum revisions.

Resolution:

The Board noted the suggestions and recommended including advanced topics in a phased manner.

10. Vote of Thanks

The meeting ended with a vote of thanks to all the members.



BOS MEMBERS -DEPARTMENT OF AUTOMOBILE ENGINEERING

S.No	Name of the Member	Designation/Occupation	Category	Signature
1	R.Rambabu	Head of the Department	Chairman	<i>R. Rambabu</i>
2	E. Pullarao	ASSISTANT PROFESSOR	One Faculty from each specialization from the College	<i>E. Pullarao</i>
3	V. Narendra	ASSISTANT PROFESSOR		<i>V. Narendra</i>
4	Sk. Baji	ASSISTANT PROFESSOR		<i>Sk. Baji</i>
5	V. Durgarao	ASSISTANT PROFESSOR		<i>V. D. J.</i>
6	Dr. Nagarjuna Kumma	Assistant Professor, Mechanical Engineering Department, Motilal Nehru National Institute of Technology (MNNIT), Allahabad		Subject experts outside parent university
7	Dr. B. Harish Babu	Associate Professor, Automobile Engineering, VNR Vignanjyothi institute of Engineering and Technology, Hyderabad	<i>Ratified Through mail</i>	
8	Dr.I. Sri Phani Sushma	University Nominee and External BoS. Member	University Nominee	<i>DSP Sushma</i>
9	A.Ashok Kumar	Deputy Area Manager, Sonalika Tractors, Telangana.	Industry	<i>Ratified Through mail</i>
10	V. Manoj Kumar	Motor claims manager, Tata AIG General insurance, Anantapur (Dt)	Alumni	<i>Ratified Through mail</i>

28/02/2026, 12:00

Re: Request for Ratification of BoS Meeting Minutes (24 Feb 2026)

Re: Request for Ratification of BoS Meeting Minutes (24 Feb 2026)

From: Nagarjuna Kumma <nagarjuna.kumma@gmail.com>

To: hodame@eswarcollegeofengg.org

cc: ispsushma.me@jntukucen.ac.in, bachina.harish@gmail.com, asusashok072@gmail.com, manojame2404@gmail.com

Date: 2026-02-27 17:26

Thank you so much for incorporation of my valuable suggestions in BOS and It's ratified.

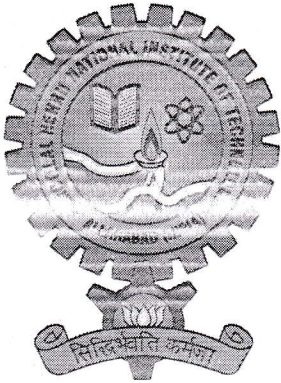
Thanks & Regards:

Dr. Nagarjuna Kumma

Assistant Professor,
Department of Mechanical Engineering,
Motilal Nehru National Institute of Technology,
Allahabad, India - 211004
Web-page: <http://mnnit.ac.in/profile/nagarjuna>

E-mail: nagarjuna@mnnit.ac.in

Mobile no: - +91- 9652666761



On Fri, 27 Feb 2026 at 1:17 PM, <hodame@eswarcollegeofengg.org> wrote:

Dear Sir/Madam,

Greetings from the Department of Automobile Engineering, Eswar College of Engineering (Autonomous).

We are pleased to inform you that the Board of Studies (BoS) meeting of the Department of Automobile Engineering was successfully conducted on 24th February 2026 in hybrid mode, with your kind presence and valuable participation.

The Minutes of the Meeting have been prepared based on the discussions and suggestions provided by the esteemed members during the meeting. The same is attached herewith for your kind perusal.

We humbly request you to kindly review the minutes and provide your ratification. If any modifications or suggestions are to be incorporated, we shall be happy to make the necessary changes.

Your valuable guidance and continuous support play a key role in the academic development and improvement of the department.

We once again thank you for your time, support, and valuable inputs.

26/02/2026, 12:00

Re: Request for Ratification of BoS Meeting Minutes (24 Feb 2026)

Kindly provide your ratification at your convenience.

Thanking you.

Yours sincerely,

R. Rambabu

Head of the Department

Department of Automobile Engineering

Eswar College of Engineering (Autonomous)

28/02/2026, 12:02

Re: Board of Studies (BoS) Meeting of the Department of Automobile Engineering

Re: Board of Studies (BoS) Meeting of the Department of Automobile Engineering

From: harish bachina <bachina.harish@gmail.com>

To: hodame@eswarcollegeofengg.org

Date: 2026-02-27 17:00

Subject: Confirmation of Participation – BoS Meeting on 24th February 2026

Dear Sir,

Warm greetings.

Thank you for your kind invitation to attend the Board of Studies (BoS) Meeting of the Department of Automobile Engineering scheduled on 24th February 2026.

I am pleased to confirm my availability for the meeting. I would prefer to participate in **Online mode**. Kindly share the meeting agenda and the online meeting link at your convenience.

I appreciate the opportunity to contribute to the academic development and curriculum enhancement of the department, and I look forward to the discussions.

Thank you once again for the invitation.

Warm regards,

Dr. Harish Babu Bachina

Automobile Engineering,

VNR Vignana Jyothi Institute of Engineering and Technology

Ph: +91-8008366664.

On Mon, 23 Feb 2026 at 12:23, <hodame@eswarcollegeofengg.org> wrote:

Dear Sir/Madam,

Warm greetings from Eswar College of Engineering (Autonomous).

We are happy to invite you to the Board of Studies (BoS) Meeting of the Department of Automobile Engineering, scheduled as follows:

Date: 24th February 2026

Mode: Hybrid (Online / Offline)

Venue: Department of Automobile Engineering

Your experience and valuable suggestions are very important to us. They will greatly help in improving our curriculum, strengthening academic quality, and aligning our program with current industry needs.

We kindly request you to confirm your availability and preferred mode of participation (Online/Offline) by replying to this mail.

Once we receive your confirmation, we will share the meeting agenda and online meeting link.

We sincerely look forward to your presence and guidance.

Thank you for your continued support.

Warm regards,

R. Rambabu

28/02/2026, 12:02

Re: Board of Studies (BoS) Meeting of the Department of Automobile Engineering

Head of the Department
Automobile Engineering
Eswar College of Engineering (Autonomous)

28/02/2026, 11:46

Re: Request for Ratification of BoS Meeting Minutes (24 Feb 2026)

Re: Request for Ratification of BoS Meeting Minutes (24 Feb 2026)

From: asus ashok <asusashok072@gmail.com>

To: Manoj Kumar <manojame2404@gmail.com>

cc: hodame@eswarcollegeofengg.org, isosushma.me@jntukucen.ac.in, nagariuna.kumma@gmail.com, bachina.harish@gmail.com

Date: 2026-02-28 10:40

Respected lecturer Team,

Greetings of the day!!!!

Thank you for considering my industry-related suggestions. Glad to see they have been incorporated and ratified, which will help in aligning the curriculum with current industry needs.

Best regards,
Ashok Addanki.

On Sat, 28 Feb, 2026, 10:35 am Manoj Kumar, <manojame2404@gmail.com> wrote:

Thank you for taking my suggestions into account. Happy to see they have been incorporated and ratified, contributing to the improvement of the curriculum.

On Fri, Feb 27, 2026, 1:17 PM <hodame@eswarcollegeofengg.org> wrote:

Dear Sir/Madam,

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We once again thank you for your time, support, and valuable inputs.

Kindly provide your ratification at your convenience.

Thanking you.

Yours sincerely,

R. Rambabu

Head of the Department

Department of Automobile Engineering

Eswar College of Engineering (Autonomous)

28/02/2026, 11:49

Re: Request for Ratification of BoS Meeting Minutes (24 Feb 2026)

Re: Request for Ratification of BoS Meeting Minutes (24 Feb 2026)

From: Manoj Kumar <manojame2404@gmail.com>

To: hodame@eswarcollegeofengg.org

cc: ispsushma.me@jntukucen.ac.in, nagarjuna.kumma@gmail.com, bachina.harish@gmail.com, asus ashok <asusashok072@gmail.com>

Date: 2026-02-28 10:35

Thank you for taking my suggestions into account. Happy to see they have been incorporated and ratified, contributing to the improvement of the curriculum.

On Fri, Feb 27, 2026, 1:17 PM <hodame@eswarcollegeofengg.org> wrote:

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We once again thank you for your time, support, and valuable inputs.

Kindly provide your ratification at your convenience.

Thanking you.

**Yours sincerely,
R. Rambabu
Head of the Department
Department of Automobile Engineering
Eswar College of Engineering (Autonomous)**

Board of Studies (BOS) Meeting of the Department of Automobile Engineering

From: hodame@eswarcollegeofengg.org

Feb 23, 12:23 PM

To: ipsushma.me@jntukucen.ac.in, nagarjunakumma@gmail.com, bachina.harish@gmail.com, asusashok072@gmail.com, manojame2404@gmail.com

From: hodame@eswarcollegeofengg.org

To: ipsushma.me@jntukucen.ac.in, nagarjunakumma@gmail.com, bachina.harish@gmail.com, asusashok072@gmail.com, manojame2404@gmail.com

Reply to: hodame@eswarcollegeofengg.org

Date: 02/23/2026 12:23 PM

Warm greetings from Eswar College of Engineering (www.eswarcollegeofengg.org)

We are happy to invite you to the Board of Studies (BOS) Meeting of the Department of Automobile Engineering, scheduled as follows:

Date: 24th February 2026

Mode: Hybrid (Online / Offline)

Venue: Department of Automobile Engineering

Your experience and valuable suggestions are very important to us. They will greatly help in improving our curriculum, strengthening academic quality, and aligning our program with current industry needs.

B.Tech. – I Year I Semester (for Group-B Branches)

S.No.	Category	Course	L/D	T	P	Credits
1	BS&H	Engineering Physics	3	0	0	3
2	BS&H	Linear Algebra & Calculus	3	0	0	3
3	Engineering Science	Basic Electrical & Electronics Engineering	3	0	0	3
4	Engineering Science	Engineering Graphics	1	0	4	3
5	Engineering Science	Introduction to Programming	3	0	0	3
6	Engineering Science	IT Workshop	0	0	2	1
7	BS&H	Engineering Physics Lab	0	0	2	1
8	Engineering Science	Electrical & Electronics Engineering Workshop	0	0	3	1.5
9	Engineering Science	Computer Programming Lab	0	0	3	1.5
10	BS&H	NSS/NCC/Scouts & Guides/Community Service	1	4	1	0.5
Total			13	00	15	20.5

B.Tech. – I Year II Semester (for Group-B Branches)

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Communicative English	2	0	0	2
2	BS & H	Engineering Chemistry / Chemistry / Fundamental Chemistry	3	0	0	3
3	Engineering Science	Differential Equations & Vector Calculus	3	0	0	3
4	Engineering Science	Basic Civil & Mechanical Engineering	3	0	0	3
5	Professional Core	Engineering Mechanics/Network Analysis/ Data structures (Branch specific)	3	0	0	3
6	BS&H	Communicative English Lab	0	0	2	1
7	BS&H	Engineering Chemistry / Chemistry / Fundamental Chemistry Lab	0	0	2	1
8	Engineering Science	Engineering Workshop	0	0	3	1.5
9	Professional Core	Engineering Mechanics & Building Practices Lab Engineering Mechanics Lab/Network Analysis Lab/ Data structures Lab	0	0	3	1.5
10		Health and wellness, Yoga and Sports	-	-	1	0.5
Total			14	00	11	10.5

L	T	P	C
1	0	4	3

ENGINEERING GRAPHICS

(Common to All branches of Engineering)

Course Objectives:

- To enable the students with various concepts like dimensioning, conventions and standards related to Engineering Drawing
- To impart knowledge on the projection of points, lines and plane surfaces
- To improve the visualization skills for better understanding of projection of solids
- To develop the imaginative skills of the students required to understand Section of solids and Developments of surfaces.
- To make the students understand the viewing perception of a solid object in Isometric and Perspective projections.

Course Outcomes:

CO1: Understand the principles of engineering drawing, including engineering curves, scales, orthographic and isometric projections.

CO2: Draw and interpret orthographic projections of points, lines, planes and solids in front, top and side views.

CO3: Understand and draw projection of solids in various positions in first quadrant.

CO4: Explain principles behind development of surfaces.

CO5: Prepare isometric and perspective sections of simple solids.

UNIT I

Introduction: Lines, Lettering and Dimensioning, Geometrical Constructions and Constructing regular polygons by general methods.

Curves: construction of ellipse, parabola and hyperbola by general, Cycloids, Involute, Normal and tangent to Curves.

Scales: Plain scales, diagonal scales and vernier scales.

UNIT II

Orthographic Projections: Reference plane, importance of reference lines or Plane, Projections of a point situated in any one of the four quadrants.

Projections of Straight Lines: Projections of straight lines parallel to both reference planes, perpendicular to one reference plane and parallel to other reference plane, inclined to one reference plane and parallel to the other reference plane. Projections of Straight Line Inclined to both the reference planes

Projections of Planes: regular planes Perpendicular to both reference planes, parallel to one reference plane and inclined to the other reference plane; plane inclined to both the reference planes.

UNIT III

Projections of Solids: Types of solids: Polyhedra and Solids of revolution. Projections of solids in simple positions: Axis perpendicular to horizontal plane, Axis perpendicular to vertical plane and Axis parallel to both the reference planes, Projection of Solids with axis inclined to one reference plane and parallel to another plane.

UNIT IV

Sections of Solids: Perpendicular and inclined section planes, Sectional views and True shape of section, Sections of solids in simple position only.

Development of Surfaces: Methods of Development: Parallel line development and radial line development. Development of a cube, prism, cylinder, pyramid and cone.

UNIT V

Conversion of Views: Conversion of isometric views to orthographic views; Conversion of orthographic views to isometric views.

Computer graphics: Creating 2D&3D drawings of objects including PCB and Transformations using Auto CAD (*Not for end examination*).

Textbook:

1. N. D. Bhatt, Engineering Drawing, Charotar Publishing House, 2016.

Reference Books:

1. Engineering Drawing, K.L. Narayana and P. Kannaiah, Tata McGraw Hill, 2013.
2. Engineering Drawing, M.B.Shah and B.C. Rana, Pearson Education Inc,2009.
3. Engineering Drawing with an Introduction to AutoCAD, Dhananjay Jolhe, Tata McGraw Hill, 2017.

Textbooks:

1. Basic Civil Engineering, M.S.Palanisamy, , Tata Mcgraw Hill publications (India) Pvt. Ltd. Fourth Edition.
2. Introduction to Civil Engineering, S.S. Bhavikatti, New Age International Publishers. 2022. First Edition.
3. Basic Civil Engineering, Satheesh Gopi, Pearson Publications, 2009, First Edition.

Reference Books:

1. Surveying, Vol- I and Vol-II, S.K. Duggal, Tata McGraw Hill Publishers 2019. Fifth Edition.
2. Hydrology and Water Resources Engineering, Santosh Kumar Garg, Khanna Publishers, Delhi. 2016
3. Irrigation Engineering and Hydraulic Structures - Santosh Kumar Garg, Khanna Publishers, Delhi 2023. 38th Edition.
4. Highway Engineering, S.K.Khanna, C.E.G. Justo and Veeraraghavan, Nemchand and Brothers Publications 2019. 10th Edition.
5. Indian Standard DRINKING WATER — SPECIFICATION IS 10500-2012.

PART B: BASIC MECHANICAL ENGINEERING

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

- Get familiarized with the scope and importance of Mechanical Engineering in different sectors and industries.
- Explain different engineering materials and different manufacturing processes.
- Provide an overview of different thermal and mechanical transmission systems and introduce basics of robotics and its applications.

Course Outcomes: On completion of the course, the student should be able to

CO1: Understand the different manufacturing processes.

CO2: Explain the basics of thermal engineering and its applications.

CO3: Describe the working of different mechanical power transmission systems and power plants.

CO4: 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, Ceramics, 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 Boilers, Otto cycle, Diesel cycle, Refrigeration and air-conditioning cycles, IC engines, 2-Stroke and 4-Stroke engines, SI/CI Engines, Components of Electric 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.)

Textbooks:

1. Internal Combustion Engines by V.Ganesan, By Tata McGraw Hill publications (India) Pvt. Ltd.
2. A text book of Theory of Machines by S.S. Rattan, Tata McGraw Hill Publications, (India) Pvt. Ltd.
3. An introduction to Mechanical Engg by Jonathan Wicker and Kemper Lewis, Cengage learning India Pvt. Ltd.

Reference Books:

1. G. Shanmugam and M.S.Palanisamy, Basic Civil and the Mechanical Engineering, Tata McGraw Hill publications (India) Pvt. Ltd.
2. Thermal Engineering by Mahesh M Rathore Tata McGraw Hill publications (India) Pvt. Ltd.
3. 3D printing & Additive Manufacturing Technology- L. Jyotish Kumar, Pulak M Pandey, Springer publications
4. Appuu Kuttan KK, Robotics, I.K. International Publishing House Pvt. Ltd. Volume-I

THE FIRST BOARD OF STUDIES MEETING DEPARTMENT OF AUTOMOBILE ENGINEERING

