

Edition IX, Volume I 2025-26

Mechanical Engineering E-Magazine (LBRCE)



MECH PULSE

(JUL - SEP 2025)



DEPARTMENT OF MECHANICAL ENGINEERING
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(Autonomous)

Accredited by NAAC & NBA (ASE, CE, CSE, IT, ECE, EEE & ME) under Tier - I
Approved by AICTE and Permanently Affiliated to JNTUK, Kakinada

Mechanical Engineering E-Magazine (LBRCE)

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MESSAGE FROM HEAD OF THE DEPARTMENT

I am very happy to inform you that the department of mechanical engineering is bringing **MECH PULSE-an e-magazine** its edition IX and volume I. The department of mechanical engineering is Accredited by **National Board of Accreditation (NBA) under Tier-I** and is started in the year 1998 with an intake of 60 students. At present the department is offering B.Tech Mechanical Engineering with an intake of 60 students and M.Tech – Thermal Power Engineering with an intake of 6 students. The department has thirteen state of art laboratories worth of 2.8 crores, with advanced computing facilities, software and research equipment. Advanced **Research Laboratories** in the area of **Cognitive Science, Material Testing, Tribology and Thermal Engineering** are available. Sophisticated **ANSYS Skill Development Centre** with 110 users of ANSYS 18.1 and **Dassult 3D Experience centre** (in association with APSSDC) is available. The department has 25 faculty members with 14 Doctoral degrees. Eleven faculty are actively pursuing for their Ph.D in various universities and nine research scholars are working for their doctoral under the department faculty. The department faculty constantly upgrade their knowledge in the area of their domain by attending various Faculty Development Programs, workshops, seminars etc. The faculty are actively engaged in their research work and are active in publishing papers in journals and conferences.

VISION OF THE DEPARTMENT

- To impart knowledge in Mechanical Engineering with global perspectives for the graduates to serve the society and industry.

MISSION OF THE DEPARTMENT

- To enable the graduates technically sound with the state- of- the –art curriculum and innovative teaching methods
- To provide training programs that bridge the gap between academia and industry
- To create a conducive environment and facilities to improve overall personality development of the graduates
- To make the graduates aware of role and responsibilities of an engineer in society.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: To build a professional career and pursue higher studies with sound knowledge in Mathematics, Science and Mechanical Engineering.

PEO2: To inculcate strong ethical values and leadership qualities for graduates to become successful in multidisciplinary activities.

PEO3: To develop inquisitiveness towards good communication and lifelong learning.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: To apply the principles of thermal sciences to design and develop various thermal systems.

PSO2: To apply the principles of manufacturing technology, scientific management towards improvement of quality and optimization of engineering systems in the design, analysis and manufacturability of products.

PSO3: To apply the basic principles of mechanical engineering design for evaluation of performance of various systems relating to transmission of motion and power, conservation of energy and other process equipment.

ONGOING RESEARCH PROJECTS

Name of the Investigator	Title of the Project	Funding Agency	Reference ID	Total Cost (Rs)	Sanctioned Date
Dr.K.Appa Rao Dr.B.Rambabu Dr.Murahari Kolli	IDEA Lab	AICTE	1-7002877028	90,00,000	12.02.2025
Dr.V Ramakrishna (PI) Dr.V.Dhanaraju (Co-PI)	Design and Fabrication of Biogas Plant for Hostel Kitchen Waste (50kg/Day)	SEED-LBRCE	LBRCE/R&D/2024-25SEED/03	3,70,000	05.05.2025

RESEARCH PROJECTS APPLIED

Name of the Investigator	Title of the Project	Funding Agency	Total Cost (Rs)	Applied Date
Dr.K.Dilip Kumar	Novel Graphene-Based Organic Photovoltaics PM6:Y6 for Low-Cost Solar Energy Harvesting	IRG, ANRF	55,00,000	31.07.2025
Dr. Murahari Kolli	Design and Development of Novel Sustainable Tillage Tool for Agricultural Farming Machinery	IRG, ANRF	31,02,000	31.07.2025
Dr.A.Dhanunjay Kumar	Multiphysics Mathematical Modelling of Friction and Wear in Magnesium composite under real world applications	ARG-Matrix	5,00,000	15 .07.2025

Dr.A.Dhanunjay Kumar	Development of smart orthopedic Implant with Biodegradable Magnesium alloy (AZ91) Composites Embedded with Graphene nanoparticles sensors	AICTE-RPS	21,69,200	31.07.2025
A.Nageswara Rao	Lab to Road Real time AI system for safer Driving Environments	AICTE-RPS	10,88,000	31.07.2025

PUBLICATIONS BY FACULTY

- **Dhanunjay Kumar Ammisetti**, Satya Sai Harish Kruthiventi, Krishna Prakash Arunachalam, Victor Poblete Pulgar, Ravi Kumar Kottala, Seepana Praveenkumar, Pasupureddy Srinivasa Rao “Experimental Investigation and Machine Learning Modeling of Electrical Discharge Machining Characteristics of AZ31/B₄C/GNP_s Hybrid Composites” published in Crystals 15(10), Volume 15, Issue 10, September 2025, ISSN: 2073-4352, <https://doi.org/10.3390/cryst15100844>.
- K.Sunil Ratna Kumar, S.B.R.Devireddy, T.Gopala Rao, **B.Sudheer Kumar**, K.Bala Prasad “Influence of Alkali treatment and fiber percentage on the mechanical and thermophysical properties of gypsum composites filled with hemp fiber” published in Materials Physics and Mechanics, ISSN 1605-8119, July 2025. http://dx.doi.org/10.18149/MPM.5342025_x.

EVENTS ORGANIZED BY THE DEPARTMENT

EXPERT TALK

- Dept. of Mechanical Engineering students participated in expert talk on “Mechanical Engineering core placement opportunities” deliver by Mr.Krishna, Mayank Krish Ventures Hyderabad on 01.08.2025.



Mr.Krishna, Mayank Krish Ventures addressing to students



Mr.Krishna, Mayank Krish ventures clarifying doubts to students

INDUSTRIAL VISIT

- Department of Mechanical engineering organized Industrial visit for V Sem students to CIPET, Surampalli on 06.08.2025. Mr.K.Lakshmi Prasad, Sr. Asst. Professor and V.Sankararao, Sr. Asst. Professor coordinated the event.



V Sem Students observing moulding process



V Sem students in front of CIPET, Surampalli

SAE STUDENT CHAPTER

- Department of Mechanical Engineering successfully organized “Awareness program on Society of Automotive Engineers” by Dr.M.Venu, Principal, VIT, Bhimavaram on 06.09.2025 in EEE Seminar Hall from 10.30 AM to 12.30 PM.

The banner features the college's logo and name: **LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)**. It is approved by AICTE, New Delhi and permanently affiliated to JNTUK, Kakinada, located at L.B. Reddy Nagar, Mylavaram, N.T.R. District, Andhra Pradesh-521230. Accreditation logos for NBA (ASE, CE, CSE, ECE, EEE, IT & ME Under Tier-I) and NAAC (CGPA: 3.20/4) are shown. The Automobile Club LBRCE logo is also present. The central text reads: **SAE INDIA Society of Automotive Engineers INDIA**. The event is titled: **AWARENESS PROGRAM ON SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) 6TH SEPTEMBER 2025 @ 10.00 AM**. Three coordinators are listed: **Dr. P. Ravindra Kumar, ME**, **Mr. G.V. Surya Narayana, ASE**, and **Mr. K. Lakshmi Prasad, ME**. Resource persons include **Dr. M.Venu, Principal, VIT, Bhimavaram**, **Dr. P. Ravindra Babu, Former Principal, SRGEC, Gudlavalleru**, and **Dr. Y. Ashok Kumar Reddy, NBKRIST, Nellore SAE, Amaravathi Division**. The program is organized by the **DEPARTMENT OF MECHANICAL ENGINEERING & AEROSPACE ENGINEERING**.

Awareness Program on SAE student chapter Banner



Resource persons in SAE student chapter awareness program

- Department of Mechanical Engineering successfully organized “Lecture on Introduction to UAVs and Practical Design Tools” by Mr. A.Sai Kumar, Asst. professor, MLR Institute of Technology, Hyderabad on 06.09.2025 in CAD Lab from 2 PM to 4 PM.

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NBA
ASE, CE, CSE, ECE,
EEE, IT & ME
Under Tier-I

NAAC
CGPA: 3.20/4

AUTOMOBILE CLUB
LBRCE

SAE INDIA
Society of Automotive Engineers INDIA

Lecture Meeting
On
Designing the Future of Flight:
Introduction to UAVs and Practical Design Tools
6th September 2025

Coordinators
Dr. P. Ravindra Kumar, ME
Mr. G.V. Surya Narayana, ASE

Mr. A SAI KUMAR, Asst. Professor
Department of Aeronautical Engineering,
MLR Institute of Technology,
Hyderabad.

ORGANIZED BY
DEPARTMENT OF MECHANICAL ENGINEERING &
DEPARTMENT OF AEROSPACE ENGINEERING

Awareness Program on SAE student chapter Banner



Mr. A.Sai Kumar delivering lecture on designing the future of flight

AUTO QUIZ 2025 COMPETITION

- Dept. of ME Organized “Auto Quiz 2025” competition by Automobile Club on 11.09.2025 from 11 to 12 PM in 3G04.

The banner for the Auto Quiz 2025 competition features the following elements:

- Top Left:** Lakireddy Bali Reddy College of Engineering (Autonomous) logo and name, established in 1998. It is approved by AICTE, New Delhi and permanently affiliated to JNTUK, Kakinada. Address: L.B. Reddy Nagar, Mylavaram, N.T.R. District, Andhra Pradesh-521230.
- Top Middle:** NBA (Approved by ASE, CE, CSE, ECE, EEE, IT & ME Under Tier-I) and NAAC (CGPA: 3.20/4) accreditation logos.
- Top Right:** Automobile Club LBRCE logo.
- Center:** A yellow box with the text: **AUTOQUIZ – 2025**, **#11-09-2025 @11.00 AM**, **Venue: ME Drawing Hall**, **AUTOMOBILE CLUB**, **ACTIVITY**.
- Bottom Left:** Coordinators: Dr. P. Ravindra Kumar and Mr. K. Sai Babu.
- Bottom Middle:** Interested students can register on or before **10-09-2025**.
- Bottom Right:** Convener: Dr. M. Sreekar Reddy.
- Bottom:** DEPARTMENT OF MECHANICAL ENGINEERING.
- Visuals:** The banner includes images of a car on an assembly line, mechanical gears, and a white electric car with a "TOP 5 ELECTRIC CAR 2024" award sign.

Auto Quiz 2025 competition banner



Students participation in Auto quiz 2025 competition

ENGINE-X COMPETITION

- Dept. of ME Organized “Engine X-2025” competition by Automobile Club on 11.09.2025 from 1 to 2 PM in Thermal Engineering Lab.

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ENGINE X-2025
#11-09-2025 @01.00 PM
Venue: Thermal Engineering Lab
AUTOMOBILE CLUB ACTIVITY

Coordinators
Dr. P. Ravindra Kumar
Mr. K. Lakshmi Prasad

Interested students can register on or before 10-09-2025

Conveners
Dr. M. Sreevara Reddy

DEPARTMENT OF MECHANICAL ENGINEERING



Engine-X 2025 competition banner

Students participation in Engine-X 2025 competition

POSTER PRESENTATION COMPETITION

- Dept. of ME Organized “Poster Presentation” competition by Automobile Club on 12.09.2025 from 1 to 2 PM in 3G11.

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NBA
ASE, CE, CSE, ECE,
EEE, IT & ME
Under Tier-1

NAAC
CGPA: 3.20/4

AUTOMOBILE CLUB
LBRCE

HAPPY ENGINEERS DAY

POSTER PRESENTATION@15-09-2025
AUTOMOBILE CLUB ACTIVITY

MECHANICAL ENGINEERING

Titles

1. "Net-Zero Cars: Dream or Reality?" (Environmental theme).
2. **EV Charging Infrastructure in India** – current status & innovations.
3. Sustainable & Green Mobility (**Hydrogen Fuel Cell Vehicles** – challenges and opportunities.)

Coordinators
Dr. K. Dilip Kumar, ME
Mr. S. Uma Maheshwar Reddy, ME

Interested students can register on or before 10-09-2025

Convener
Dr. M. B.S. Sreekar Reddy

DEPARTMENT OF MECHANICAL ENGINEERING

Poster presentation competition banner



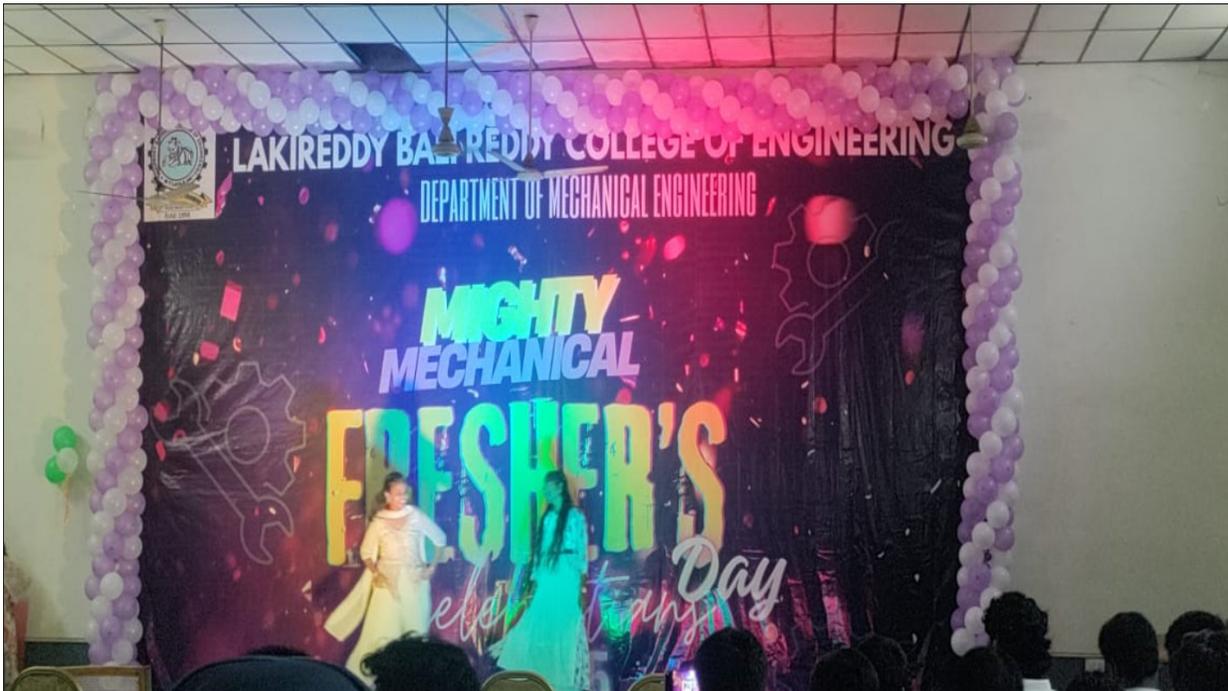
Student participation in poster presentation competition

FRESHERS DAY CELEBRATIONS

- Department of Mechanical Engineering organized Freshers Day celebrations for first year students on 13.09.2025 from 1 PM to 4 PM in Mechanical Auditorium.



Second year students dance performance in Fresher's Day 2025 celebrations



First year students dance performance in Fresher's Day 2025 celebrations

GUEST LECTURE

- Department of Mechanical Engineering organized Guest lecture on “Thermal power plant cycles and main components” by Dr.G.Prasada Rao, Executive Engineer, Dr. NTTPS, APGENCO, Ibrahimpatnam, for V Sem students on 17.09.2025.



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Welcome
to
Dr. G. Prasada Rao,
Dr. N.T.T.P.S, Ibrahimpatnam
Vijayawada



DEPARTMENT OF MECHANICAL ENGINEERING

Guest Lecture by Dr.G.Prasada Rao, EE, Dr.NTTPS, Ibrahimpatnam



Dr.G.Prasada Rao giving lecture on Thermal power plant cycles to V sem students

- Department of Mechanical Engineering organized 20 days Training program by MSME centre, Visakhapatnam for VII Sem students from 17.09.2025.



MSME training team along with Principal and students



MSME training team along with Principal and students

FACULTY PRESENTATIONS ORGANIZED

S. No	Name of The Faculty	Name of the Topic	Date
1.	Dr.A.Dhanunjay Kumar	Experimental Investigation and Machine Learning Modelling of Tribological Characteristics of AZ91 Composites	26.07.2025
2.	Dr.B.Sudheer Kumar	How to crack GATE and PSUs seeking GATE eligibility	04.08.2025
3.	Dr.A.Nageswara Rao	Employability opportunities for Mechanical Engineers	04.08.2025
4.	Dr.P.Ravindra Kumar	R23 regulations & Academic Requirements	12.08.2025
5.	Dr.V.Dhana Raju	Alumni strength of Mechanical Engineers in LBRCE	19.08.2025
6.	Mr.J.Subba Reddy	Self Learning & Effective Utilization of NPTEL	06.09.2025
7.	Dr.A.Nageswara Rao, Dr.A.Dhanunjay Kumar, Mr.K.V.Viswanadh, Mr.V.Sankararao	Awareness on Industrial Facilities at MSME Centre, Visakhapatnam	27.09.2025

- Dr.A.Dhanunjay Kumar, Sr. Asst. Professor given a presentation on “Experimental Investigation and Machine Learning Modelling of Tribological Characteristics of AZ91 Composites” as a part of faculty colloquiums on 26.07.2025 in CAD lab at 12.10 PM.



Dr.A.Dhanunjay Kumar given a presentation on “Experimental Investigation and Machine Learning Modelling of Tribological Characteristics of AZ91 Composites”



Faculty listeners during Dr.A.Dhanunjay Kumar presentation

- Awareness program on “How to crack GATE and PSUs seeking GATE eligibility” by Dr.B.Sudheer Kumar, Sr. Asst. Professor for Mechanical Engineering final year students on 04.08.2025.



Dr.B.Sudheer Kumar giving presentation on GATE



Dr.B.Sudheer Kumar interacting with students

- Awareness program on “Employability opportunities for Mechanical Engineers” by Dr.A.Nageswara Rao, Sr. Asst. Professor for Mechanical Engineering final year students on 04.08.2025.

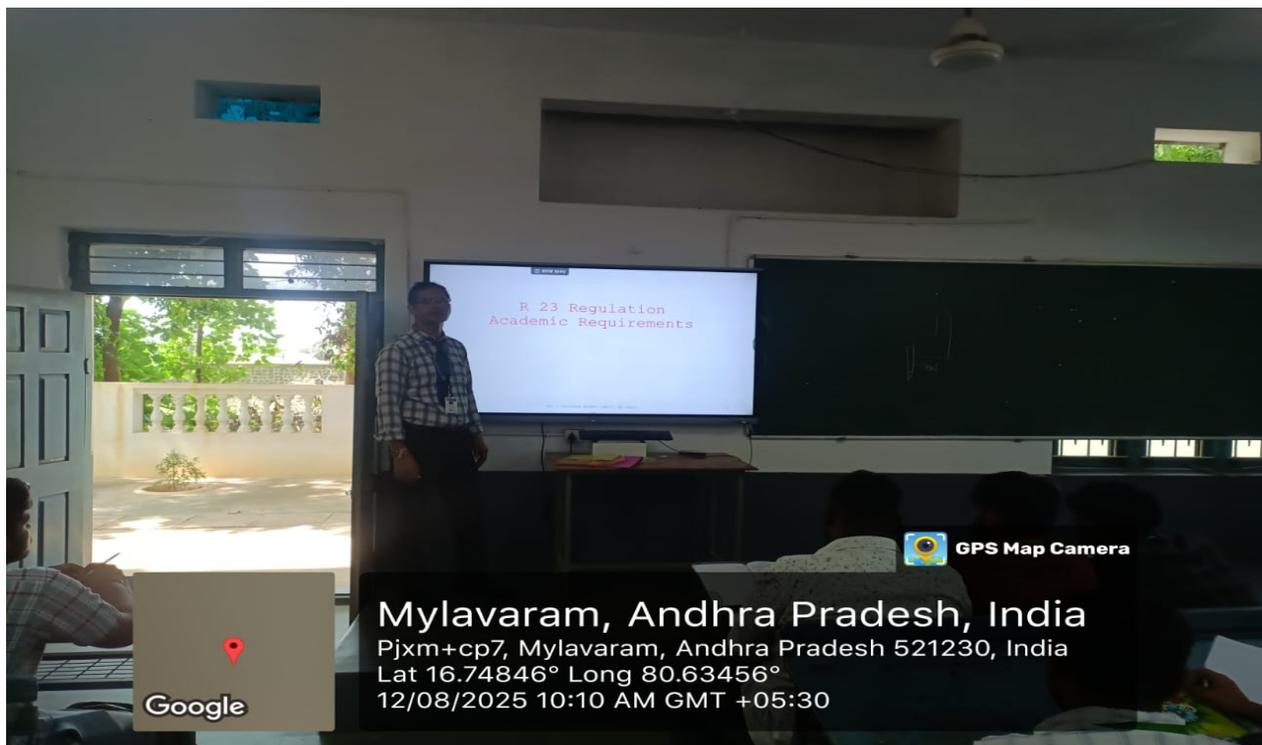


Dr.A.Nageswara Rao giving presentation on Employability opportunities



Dr.A.Nageswara Rao addressing to students

- Dr.P.Ravindra Kumar, Professor given a presentation on “R23 regulations & Academic Requirements” to V semester students on 12.08.2025 in room no. 3G12.



Dr.P.Ravindra Kumar giving presentation on R23 regulations



Dr.P.Ravindra Kumar interacting with students

- Dr.V.Dhana Raju, Associate Professor given a presentation on “Alumni strength of Mechanical Engineers in LBRCE” to I semester students on 19.08.2025 in room no. 3G11.



Dr.V.Dhana Raju giving presentation on Alumni strength of LBRCE



Dr.V.Dhana Raju interacting with students

- Mr.J.Subba Reddy, Associate Professor given a presentation on “Self Learning & Effective Utilization of NPTEL” to V semester students on 06.09.2025 in room no. 3G13.



Mr.J.Subba Reddy giving a presentation on “Self Learning through NPTEL”

- Dr.A.Nageswara Rao, Dr.A.Dhanunjay Kumar, Mr.K.V.Viswanadh, Mr.V.Sankararao, Sr. Asst. Professors given a presentation on “Awareness on Industrial Facilities at MSME Centre, Visakhapatnam” to all faculty on 27.09.2025 in CAD lab at 12.10 PM.



Presentation on “Awareness on Industrial Facilities at MSME Centre, Visakhapatnam”

FACULTY ACHIEVEMENTS

- Mr.J.Subba Reddy, Associate Professor received NPTEL STAR Certificates in NPTEL STAR WORKSHOP at IIT Madras on 06.07.2025.



HIGHEST NUMBER OF COURSE TAKERS (Certified) - TILL DATE

Number of Courses	Name	Institution	Age
65 Courses	S LAKSHMANA KUMAR	SONA COLLEGE OF TECHNOLOGY, SALEM, TAMIL NADU	47
64 Courses	JONNALA SUBBA REDDY	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING, VIJAYAWADA, ANDHRA PRADESH	51
63 Courses	CHANDRALEKHA	K S RANGASAMY COLLEGE OF TECHNOLOGY, SALEM, TAMIL NADU	43
57 Courses	PRASHANT DAIGAVANE	GOVERNMENT COLLEGE OF ENGINEERING, NAGPUR, MAHARASHTRA	60

Mr.J.Subba Reddy receiving of NPTEL STAR certificates in IIT Madras

Mr.J.Subba Reddy completed 64 NPTEL courses

- Dr.K.Murahari, Associate Professor and Dr.V.Dhana Raju, Associate Professor received “Best Faculty Awards” for A.Y. 2024-25 from President Mr.G.Srinivasa Reddy and Principal Dr.K.Appa Rao on 04.09.2025 in SRK Hall.



Dr.K.Murahari receiving of Best Faculty Award from President and Principal



Dr.V.Dhana Raju receiving of Best Faculty Award from President and Principal

- Dr.V.Dhana Raju, Associate Professor received two awards “Top 2% of scientists in Stanford University“ and “h-index of 25 and 2518 citations in Scopus” in JNTUK Kakinada on 06.09.2025.



Dr.V.Dhana Raju receiving of “Top 2% of scientists in Stanford University” award



Dr.V.Dhana Raju receiving of “h-index of 25 and 2518 citations in Scopus” award

- Dr.K.Appa Rao, Principal and Professor of Mechanical Engineering received “Best Principal Award” from Council for skills and competence on 05.09.2025 in Hyderabad.

ప్రతిభకు దక్కిన గౌరవం

-జాతీయ స్థాయి ఉత్తమ ప్రిన్సిపాల్ అవార్డు కు
ఎంపికైన డా.కె.అప్పారావు



మైలవరం, సెప్టెంబరు 10
(వార్తాప్రభ) : ఎన్టీఆర్
జిల్లా, మైలవరం పట్టణంలోని
లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్
కళాశాల ప్రిన్సిపాల్ డా.కంది
మళ్ల అప్పారావు ప్రతిభకు
అరుదైన గౌరవం దక్కింది.
ఆయన జాతీయ స్థాయి
ఉత్తమ ప్రిన్సిపాల్ అవార్డు కు
ఎంపికయ్యారు. గుర్తింపు

పొందిన కౌన్సిల్ ఫర్ స్కూల్స్ అండ్ కాంపిటెన్స్ ఇండియా వారు
సెప్టెంబర్ 5న హైదరాబాద్ లో నీతి అయోగ్ వారిచే ప్రధానం చేశారు.
జాతీయ స్థాయిలో ఈ ఎంపిక కు 1800 మందికి పైగా అప్లికేషన్లు చేయగా
395 మంది మాత్రమే అర్హత సాధించారు. ఈ ఎంపిక ప్రమాణాల ప్రకారం
52 మంది ని మాత్రమే ఎంపిక చేసి ప్రశంసా పత్రాలతో ఘనంగా
సన్మానించారు. ఈ ఎంపికలో సర్వీసు, డి.బి.సి, రిసెర్చ్, ఇన్స్టిట్యూట్
ప్రాక్టీస్ లో వారు చేసినటువంటి విశేషమైన కృషికి గుర్తింపుగా ఈ
అవార్డులు బహుకరించినట్లు కళాశాల ప్రెసిడెంట్ జి.శ్రీనివాస రెడ్డి
తెలిపారు. ఈ కార్యక్రమంలో ముఖ్యఅతిథిగా జె.యస్.టి.యు జి.వి.
ఇన్స్టిట్యూట్ వి.సి, డా. డి.రాజ్యలక్ష్మి, సి-డాక్ సెంటిస్ట్ -ఎఫ్,
ఎం.కుమార్, దేటావ్యాలీ సి.ఈ.ఓ పవన్ పాల్గొన్నారు. ఈ సందర్భంగా
ప్రిన్సిపాల్ డా.కె.అప్పారావు ని లకిరెడ్డి బాలిరెడ్డి కళాశాల
యాజమాన్యం, అధ్యాపక , అధ్యాపకేతర సిబ్బంది అభినందించారు.

**జాతీయ స్థాయి ఉత్తమ ప్రిన్సిపాల్ అవార్డుకు
అప్పారావు ఎంపిక**

మైలవరం, సెప్టెంబరు
10 (ఆంధ్రజ్యోతి): లకిరెడ్డి
బాలిరెడ్డి ఇంజనీరింగ్ కళాశాల
ప్రిన్సిపాల్ గా పనిచేస్తున్న కంది
మళ్ల అప్పారావు జాతీయ
స్థాయి ఉత్తమ ప్రిన్సిపాల్
అవార్డుకు ఎంపికైనట్లు ప్రిన్సి
పాల్ బుధవారం ఒక ప్రకటనలో
తెలిపారు. ఈ సందర్భంగా కె.అప్పారావును కళాశాల యాజ
మాన్యం, అధ్యాపక, అధ్యాపకేతర సిబ్బంది అభినందించారు.



ప్రిన్సిపాల్ అప్పారావు

NPTTEL ONLINE CERTIFICATIONS

- The following are the list of faculty successfully completed NPTEL online certifications during Jul – Sep 2025.

Elite + Silver	Elite	Successfully Completed	Total
3	8	3	14

S. No	Name of the Faculty	Name of the Course	% of Marks	Grade
1.	Dr.S.Pichi Reddy	Patent Drafting for Beginners	76	Elite+Silver
2.	Dr.P.Vijay Kumar	Stress Management	53	Successfully completed
3.	Jonnala Subba Reddy	Teaching and Learning in General Programs: TALG	80	Elite+Silver
4.		Mechanics and Control of Robotic Manipulators	72	Elite
5.		Introduction to Mechanical Vibration	68	Elite
6.		Technical Communication for Engineers	87	Elite+Silver
7.	Dr.Ch. Siva Sankara Babu Chinka	Python for Data Science	63	Elite
8.	Dr.Sudheer Kumar Battula	Python for Data Science	61	Elite
9.	Dr.Sudheer Kumar Battula	Introduction to Machine Learning	58	Successfully completed
10.	Dr.Ch. Siva Sankara Babu Chinka	Introduction to Machine Learning	54	Successfully completed
11.	Dr. A Nageswara Rao	Mechanics and Control of Robotic Manipulators	-	Elite
12.	Dr. A Nageswara Rao	Introduction to Machine Learning	63	Elite
13.	K Lakshmi Prasad	Introduction to Machine Learning	63	Elite
14.	Mrs.B.Kamala Priya	Power Plant Engineering	60	Elite

- The following faculty successfully completed NPTEL AIC certifications in Sep 2025.

S.No	Name of the faculty	Course Name	Duration (Hrs)	AIC NPTEL Certificate
1.	Mr.Jonnala Subba Reddy	Foundation in linear dynamic structures	2	Successfully Completed
2.	Mr.Jonnala Subba Reddy	Time Integration	2	Successfully Completed
3.	Mr.Jonnala Subba Reddy	Time Domain Dynamic Problems	6	Successfully Completed
4.	Mr.Jonnala Subba Reddy	Structural Dynamics	4	Successfully

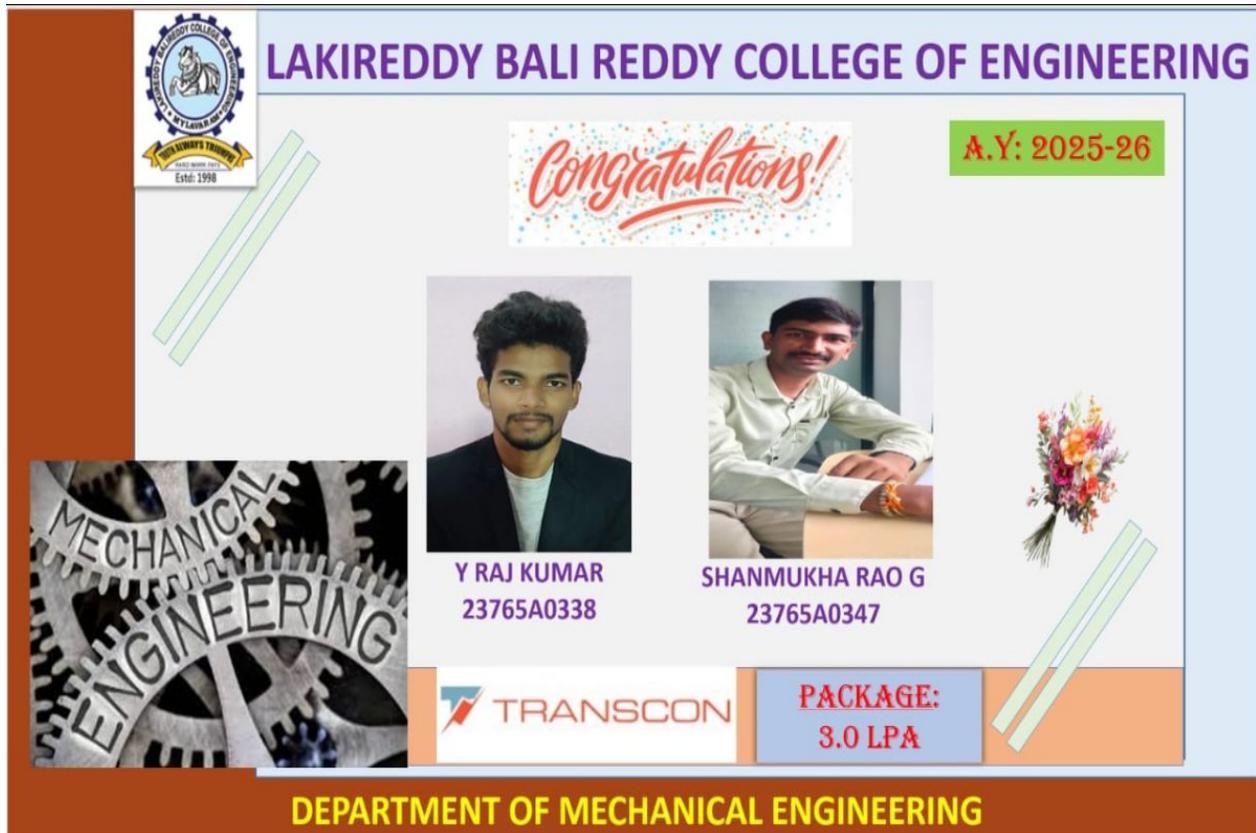
				Completed
5.	Mr.Jonnala Subba Reddy	Mode Superposition Method	6	Successfully Completed
6.	Mr.Jonnala Subba Reddy	Modal Analysis	4	Successfully Completed
7.	Mr.Jonnala Subba Reddy	Harmonic Analysis of Structures	6	Successfully Completed
8.	Mr.Jonnala Subba Reddy	Damping Effects	4	Successfully Completed
9.	Dr.Sudheer Kumar Battula	Foundation in linear dynamic structures	2	Successfully Completed
10.	Dr.Sudheer Kumar Battula	Time Integration	2	Successfully Completed
11.	Dr.Sudheer Kumar Battula	Time Domain Dynamic Problems	6	Successfully Completed
12.	Dr.Sudheer Kumar Battula	Structural Dynamics	4	Successfully Completed
13.	Dr.Sudheer Kumar Battula	Mode Superposition Method	6	Successfully Completed
14.	Dr.Sudheer Kumar Battula	Modal Analysis	4	Successfully Completed
15.	Dr.Sudheer Kumar Battula	Harmonic Analysis of Structures	6	Successfully Completed
16.	Dr.Sudheer Kumar Battula	Damping Effects	4	Successfully Completed

STUDENT ACHIEVEMENTS

STUDENT PLACEMENTS

- The following VII Sem students got campus placement in TRANSCON with 3 LPA package.

S. No.	Roll No.	Name of the Student	Year
1.	23765A0338	Y Raj Kumar	IV
2.	23765A0347	G Shanmukha Rao	IV



- Department of Mechanical Engineering students received merit cash prize of Rs10,000/- for A.Y. 2023-24 & 2024-25 on 04.08.2025 in SRK Hall.

S. No.	Roll No.	Name of the Student	Year	A.Y.
1.	23761A0343	P.Eesha	I	2023-24
2.	24761A0342	P.Uday Leela Pratap	I	2024-25
3.	24765A0302	B.Surya Sandeep Veera Manikanta	II	2024-25
4.	23765A0318	K.Ramanjaneyulu	III	2024-25
5.	23765A0364	P.Indra Babu	III	2024-25
6.	21761A0311	G.Sai Chaitanya Yaswanth	IV	2024-25
7.	22765A0352	N.Appala Naidu	IV	2024-25



P.Eesha V Sem student received merit cash prize from president G.Srinivasa Reddy



P.Indra Babu VII Sem student received merit cash prize from president G.Srinivasa Reddy

- The following students are received SECOND prizes in “Rakhi Making” competition conducted by LBRCE on 13.08.2025.

S. No.	Roll No.	Name of the student	Year
1.	23761A0331	M.Sravani	III
2.	23761A0343	P.Eesha	III

- The following students are qualified for e-cell competitions conducted by IIT Bombay.

S. No.	Roll No.	Name of the student	Year
1.	23765A0341	A.Kotinagu	IV
2.	23765A0347	G. Shanmukha Rao	IV



VII Sem students along with HoD and coordinator

- The following are the list of students received prizes from Dr.B.Ramesh Reddy, Vice-Principal in Autoquiz competition organized by Automobile Club on the occasion of Engineers Day celebrations conducted on 15.09.2025 in committee room.

S. No.	Name of the Student	Regd. No.	Year	Prize
1	U. Hemanth	24761A0357	II	I
2	J. Pydinaidu	25765A0301	II	I
3	B. Nataraju	24761A0307	II	II
4	P.U.L. Pratap	24761A0342	II	II





- The following are the list of students received prizes from Dr.B.Ramesh Reddy, Vice-Principal in Engine-X competition organized by Automobile Club on the occasion of Engineers Day celebrations conducted on 15.09.2025 in committee room.

S.No.	Name of the Student	Regd. No.	Year	Prize
1	P. Ashok Kumar	24765A0306	III	I
2	B. Sasi Varun	24765A0301	III	I
3	K. Venkata Anjaneyulu	23761A0325	III	II
4	M. Prasad	23761A0332	III	II



P. Ashok Kumar (24765A0306) receiving first prize in Engine X from Vice Principal



K.V.Anjaneyulu & M.Prasad receiving second prize in Engine X from Vice Principal

- A.Sravya (23761A0301) third year student received first prize from Dr.B.Ramesh Reddy, Vice-Principal in Poster Presentation competition organized by Automobile Club on the occasion of Engineers Day celebrations conducted on 15.09.2025 in committee room.



A.Sravya (23761A0301) receiving first prize in poster presentation from Vice-Principal

- The V Sem students are received I & II prizes in A National level 24 hours hackathon “Robo X 2025” competition in Siddhartha Academy of Higher Education, Kanuru, Vijayawada on 18 and 19 september 2025.



Manoj and sravani V sem students received first prize in Robo X competition



Kishore, eesha & team V sem students received second prize in Robo X competition



Dr.M.B.S.Sreekara Reddy, HoD appreciation to student winners

- Akkala Sravya (23761A0301) V Sem student received third prize in paper presentation competition in Andhra Loyola Institute of Engineering and Technology, Vijayawada on 20.09.2025.



A.Sravya V sem student receiving of third prize

STUDENT PARTICIPATIONS

- The department of Mechanical Engineering V sem students participated in plantation program in front of department.



V semester students along with HoD and NSS Incharge



V semester students participation in plantation program



Dr.M.B.S.Sreekara Reddy, HoD in plantation program

- Mrs. A.Sravya (23761A0301) V semester student given speech in Pingali Venkaiah birth anniversary celebrations on 02.08.2025 in committee room.



A.Sravya V semester student giving speech in Pingali Venkaiah birth anniversary celebrations

- The following faculty and students are participated in flag hoisting ceremony in JNTUK Kakinada on the occasion of Independence day celebrations i.e. 15.08.2025.

S. No.	Name of the Faculty/Student	Roll No.	Year
1.	S.Uma Maheswara Reddy	T840	Faculty
2.	B.Hari Vamsi Nayak	23761A0305	III
3.	G.Mahesh	23761A0318	III
4.	P.Nihad Ibrahim	23761A0338	III
5.	Sk.Afroj	23761A0350	III
6.	Sk.Mukthiyar Ahmad	23761A0354	III
7.	V.Sai Uttam	23761A0364	III



V semester students along with faculty coordinator



Students in JNTUK Kakinada on Independence day celebrations



Students march fast in JNTUK Kakinada

ACKNOWLEDGEMENTS

The department expresses sincere thanks to all faculty, technical staff and students for contribution towards the technical magazine- mech pulse.

MECHANICAL ENGINEERING
LBRCE

SKILL DEVELOPMENT
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STUDENT CHAPTERS
ASME

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ROBOTICS CLUB
AUTOMOBILE CLUB
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STUDENT INNOVATION
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DEPARTMENT OF MECHANICAL ENGINEERING
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
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Mechanical Engineering E-Magazine (LBRCE)