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WELCOME TO OUR

Newsletter

Department of Mechanical Engineering

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USHARAMA
COLLEGE OF ENGINEERING AND TECHNOLOGY
AUTONOMOUS

CODE:URCE

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About the Department

The Department of Mechanical engineering is established at USHARAMA College of Engineering & Technology in the year 2010 with the approval of AICTE and intake is of 60 seats. It offers Undergraduate degree program in Mechanical Engineering. The department is adjudged as one of the pioneering departments at URCE with well qualified and experienced faculty.

The specializations of the faculty are well balanced to cater the academic needs of students effectively. To impart more practical exposure to the students the laboratories are housed spaciouly and are equipped with more than adequate machinery, tools and software's to satisfy the needs of students. Qualified and well trained technical staff assists the students during lab work.

INSTITUTE VISION

To emerge as a centre of excellence in technical education by imparting quality teaching learning practices and research for the transformation of society.

INSTITUTE MISSION

- **Provide an ideal and the best class infrastructure to foster exploration in engineering and research.**
- **Build dedicated faculty with student centric teaching incorporating experiential, innovative skills.**
- **Encourage lifelong learning, entrepreneurial thinking and ethical responsibility in students to address societal challenges.**

DEPARTMENT VISION

To impart quality education in the field of Mechanical Engineering to meet the industrial standards and technological needs of the society.

DEPARTMENT MISSION

- **To provide quality education for career building and skill enhancement and to become globally competitive.**
- **To groom the students with leadership qualities, problem solving approach, along with team work and effective communication.**

- To promote higher education, entrepreneurship skills, research cum innovation with a focus on industrial and societal needs and to mould the students with professional ethics and moral values.

PROGRAM EDUCATIONAL OBJECTIVES

(PEOs)

PEO 1: To train the graduates in building a successful professional career in Mechanical Engineering.

PEO 2: To encourage the graduate engineers to achieve their goals through higher education and Research & Development activities.

PEO 3: To support the graduates to become moral & ethically responsible citizens in the development of the nation.

PROGRAM SPECIFIC OUTCOMES

(PSOs)

PSO1: Apply Engineering fundamental knowledge, complex mathematics, science and provide solutions to mechanical Engineering system.

PSO2: Design and develop products innovatively with modern tools and to optimize manufacturing processes.

Programme Outcomes (POs)

PO - 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO - 2: 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.

PO - 3: 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.

PO - 4: 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.

PO - 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO - 6: 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.

PO-7: 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.

PO -8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO - 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO - 10: 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.

PO - 11: 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.

PO - 12: 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.

FACULTY NEWS

PAPER PUBLICATIONS(National/International Journals/ Conferences)

SCI/SCIE/ESCI indexed journals:

Nil

Scoups

Dr. R. Bhargavi,

“High Band Width Millimeter Wave Dual Band Silver Nano Antenna Array for 5G Applications”
Neuroquantology, November 2022, Volume 20, Issue 17, Page 2301-2311.

Conferences

Nil

RESOURCE PERSONS IN STTPS/FDPS

Dr. S. Madhusudan

“SHORT TERM COURSE Overview of Composites with Research Perspective” Dept. of ME.,
Tirumala Engineering College Narasaraopet, Guntur District, Andhra Pradesh, 15th -19th June 2022.

Dr. S. Madhusudan

“Recent advances in mechanical engineering- (RAME)” at Dept. of ME., Godavari Institute of
Engineering and Technology, Rajamahendravaram, Andhra Pradesh, 4th to 8th August 2022.

FACULTY DEVELOPMENT PROGRAM / SHORT TERM TRAINING

PROGRAM ORGANIZED

Six days FDP on “Future Prospects of Hybrid Vehicles” on 21st -26th NOV 2022.

Key note speakers are:

1. Dr. I. Satish Kumar, Assistant Professor, NIT, Warangal.
2. Dr. B. Bala Krishna, Professor, JNTUK, Kakinada.
3. Dr. M. Sri Rama Murthy, Professor, Sir. C. R. Reddy College of Engineering, Eluru.
4. Dr. B. Raghu Kumar, Professor, P.V.P.S.I.T, Vijayawada, AP.
5. Dr. P. Srinivas Kishore, Professor, Andhra University, Visakhapatnam, AP.
6. Dr. T. Jayanand, Professor, Godavari Institute of Engineering, Dept. of M.E., Rajahmundry, AP.

FACULTY DEVELOPMENT PROGRAMS ATTENDED

1. Dr B.Kiran Babu, 5-days online FDP on “Emerging Trends in Mechanical Engineering” organized by the Department of Mechanical Engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru, Krishna (Dt.), Andhra Pradesh, India organized from 20/6/2022 to 25/6/2022.
2. N. Siva Krishna, J Ashok Kumar, . Rahul G. Karmankar 5-days online FDP on “Emerging Trends in Mechanical Engineering” organized by the Department of Mechanical Engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru, Krishna (Dt.), Andhra Pradesh, India organized from 20/6/2022 to 25/6/2022.
3. Dr. S. Madhusudan, 5-day Online FDP on the theme “Research Opportunities & Funding Agencies” organized by Krishna University from 27/6/2022 to 02/7/2022.
4. Dr. R. Bhargavi, 5-day Online FDP on the theme “Research Opportunities & Funding Agencies” organized by Krishna University from 27/6/2022 to 02/7/2022.
5. Dr B.Kiran Babu, A one week online FDP on “Advancement in Thermal and Renewable Energy Technology” organized by the Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna (Dt.), Andhra Pradesh, India organized from 04/7/2022 to 09/7/2022.
6. CH. Venkata krishna, Nawab Masid Abdul, N. Siva Krishna A one week online FDP on “Advancement in Thermal and Renewable Energy Technology” organized by the Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna (Dt.), Andhra Pradesh, India organized from 04/7/2022 to 09/7/2022.
7. K. Vidya, A one week online FDP on “Hybrid Electric Vehicles” organized by the Department of Mechanical Engineering, GMRIT, Rajam & VRSEC, Vijayawada, India organized from 21/11/2022 to 25/11/2022.
8. Rahul N Karmankar,. 5-day Online FDP on the theme “Inculcating Universal Human Values in Technical Education (UHV-I)” organized by All India Council for Technical Education (AICTE) from 05/12/2022 to 09/12/2022.

STUDENT ACTIVITIES

INDUSTRIAL VISTS/WORKSHOPS/SKILL DEVELOPMENT PROGRAMS

INDUSTRIAL VISIT

IV B.Tech. students of Mechanical Engineering visited “PRAKASA SPECTRO CAST(P) LTD ENIKEPADU,”, Vijayawada on 04-11-2022.

III B.Tech. students of Mechanical Engineering visited “PRAKASA SPECTRO CAST(P) LTD ENIKEPADU,”, Vijayawada on 05-11-2022.

WORKSHOPS/SEMINARS

The department of Mechanical Engineering organized -----

A Seminar on "Seminar on Renewable Energy Technologies in Mechanical Systems " by . Dr. M. Sri Rama Murthy, Professor, Sir. C. R. Reddy College of Engineering, Eluru, AP, for ME students on 01/10/2022.

PARTICIPATIONS IN PROFESSIONAL EVENTS

1. G Vamsi Krishna, N Sai Mani Kowshik, B Pavan Kalyan has participated in the event Project Expo at Andhra Loyola Institute of Engineering and Technology, Vijayawada on 22-08-2022.
2. N Leela Prasad, K Lakshman has participated in the event Project Expo at Andhra Loyola Institute of Engineering and Technology, Vijayawada on 22-08-2022.
3. T Naga Maha Akhilesh, T Pavan Kalyan, T Ratnakar has participated in the event Poster Presentation at Andhra Loyola Institute of Engineering and Technology, Vijayawada on 22-08-2022.
4. M Sasi Kumar, B Vinay Kumar has participated in the event Poster Presentation at Andhra Loyola Institute of Engineering and Technology, Vijayawada on 22-08-2022.

గడియారం చెప్పిన పాఠం

ఒక పట్టణంలో అరుణ్ అనే బాలుడు ఉండేవాడు. అతను చాలా తెలివైనవాడు, కానీ ఒక పెద్ద లోపం ఉండేది — పనులను ఎప్పుడూ వాయిదా వేయడం. "రేపు చేస్తాను" అనే అలవాటు అతనికి బాగా అలవాటైంది.

ఒక రోజు అతని తాత ఒక పాఠ గడియారం ఇచ్చాడు.

"ఈ గడియారం ప్రతి సెకను విలువను గుర్తు చేస్తుంది. దీన్ని జాగ్రత్తగా ఉంచు," అని చెప్పారు.

అరుణ్ ఆ గడియారాన్ని చూసుకుంటూ ఉండేవాడు. కానీ తన అలవాటు మాత్రం మారలేదు. ఒక రోజు పరీక్ష దగ్గర పడింది. ఇంకా చాలా చదవాల్సి ఉంది. అప్పుడు అతను గడియారం టిక్ టిక్ శబ్దాన్ని గమనించాడు.

ప్రతి సెకను గడుస్తూ ఉండగా,

"సమయం ఎవరి కోసం ఆగదు" అని అతనికి అర్థమైంది.

అప్పుడే అతను నిర్ణయం తీసుకున్నాడు. ఇకపై పనులను వాయిదా వేయకూడదని. ప్రతిరోజూ సమయానికి చదవడం మొదలుపెట్టాడు.

పరీక్షలు వచ్చాయి. ఈసారి అతను చాలా బాగా రాశాడు. మంచి మార్కులు సాధించాడు. తన విజయానికి కారణం — సమయాన్ని సరిగ్గా ఉపయోగించడమే అని అతను గ్రహించాడు.

తాత ఇచ్చిన గడియారం ఇప్పుడు అతనికి ఒక గుర్తుగా మారింది —

ప్రతి క్షణం విలువైనదని గుర్తు చేసే గుర్తుగా.

B Vijay Jeevan Kumar (III Year)

చీమ మరియు చినుకులు

ఒక పచ్చని తోటలో చిన్న చీమ ఉండేది. అది ప్రతిరోజూ కష్టపడి ఆహారం సేకరించేది. ఆ తోటలోనే ఒక సీతాకోకచిలుక కూడా ఉండేది. అది రోజంతా ఎగురుతూ ఆనందంగా గడిపేది.

ఒక రోజు సీతాకోకచిలుక చీమను చూసి,

"ఎందుకు ఇంత కష్టపడుతున్నావు? జీవితం ఆనందంగా గడపాలి!" అని చెప్పింది.

చీమ నవ్వుతూ,

"ఇప్పుడు కష్టపడితే తర్వాత సుఖంగా ఉండగలను," అని సమాధానం ఇచ్చింది.

కొన్ని రోజుల తర్వాత భారీ వర్షాలు ప్రారంభమయ్యాయి. తోట మొత్తం నీటితో నిండిపోయింది.

సీతాకోకచిలుకకు ఆహారం దొరకలేదు. అది చాలా కష్టపడింది.

అప్పుడు చీమ తన గుహలో సేకరించిన ఆహారంతో సురక్షితంగా ఉంది. సీతాకోకచిలుక బాధపడుతూ చీమ దగ్గరకు వచ్చింది.

చీమ దానిని చూసి, తన దగ్గర ఉన్న ఆహారాన్ని పంచుకుంది.

"ముందు నుంచే సిద్ధంగా ఉంటే ఇలాంటి కష్టాలు రావు," అని మెల్లగా చెప్పింది.

సీతాకోకచిలుక తన తప్పు గ్రహించింది. అప్పటి నుంచి అది కూడా కష్టపడి పనిచేయడం నేర్చుకుంది. గురువులు ఆమెను చూసి చాలా సంతోషపడ్డారు. సీత తన విజయానికి కారణం ఏమిటంటే — **పుస్తకాలపై ప్రేమ** అని చెప్పింది. ఆమె ఉదాహరణ చూసి ఇతర విద్యార్థులు కూడా పుస్తకాలు చదవడం ప్రారంభించారు.

D Mohan Surya (III Year)

