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CAMPUS GEARS

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WELCOME TO OUR

Newsletter

Department of Mechanical Engineering

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D Sai Kamal Babu (IV Year)

B Pavan Kalyan (III Year)

K Dineshnadh (III Year)

D Mahesh Kumar (II Year)

SK Nagur Basha (II Year)

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USHARAMA

COLLEGE OF ENGINEERING AND TECHNOLOGY

AUTONOMOUS

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CODE:URCE

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 Journals

Nil

Conferences

Nil

RESOURCE PERSONS IN STTPS/FDPS

Dr. R. Bhargavi

“Advanced materials processing and Characterization methods” Dept. of ME., Tirumala Engineering College Narasaraopet, Guntur District, Andhra Pradesh, 13th – 17th Feb 2023.

Dr. B. Kiran Babu

“Materials: Processing and Applications” Dept. of ME.,VKR, VNB & AGK College of Engineering, Gudivada, Andhra Pradesh, 18th March 2023.

FACULTY DEVELOPMENT PROGRAM / SHORT TERM TRAINING

PROGRAM ORGANIZED

Five days FDP (Online) on “Advances in Mechanical Engineering” on 31st Jan - 5th Feb, 2022

Key note speakers are:

1. Dr. K. Ramji, Professor, Andhra University, Visakhapatnam.
2. Dr. M. Vijay Kumar, Assistant Professor, NIT, Warangal.
3. Dr. G. Vijay Kumar, Professor, P.V.P.S.I.T, Vijayawada.
4. Dr. Ch. Sobha, Associate Professor, GITAM University, Visakhapatnam.
5. Dr. B. Naga Raju, Professor, ANITs, Visakhapatnam.

Five days FDP (Online) on “OBE and NEP 2020” on 4th -29th May, 2022

Key note speakers are:

1. P. Suresh Varma, Professor, Dept. of CSE, Adi Kavi Nannaya University
2. Dr. P.S. Rama Srikanth, Professor, Dean School of ME, VIT, AP.
3. Dr. Gopi Krishna, Assistant Professor, Acharya Nagarjuna University, Guntur
4. Dr. Ch. Santhi Rani, Professor, Dept. of ECE, Usharama College of Engineering, Telaprolu.

FACULTY DEVELOPMENT PROGRAMS ATTENDED

1. G. Jaya Raju, Nawab Masid Abdul A one week online FDP on “Emerging Trends in Thermal Engg.” organized by the Department of Mechanical Engineering, PVPSIT, Vijayawada, India organized from 27/12/2021 to 31/12/2021.
2. Dr. R. Bhargavi, M. Kiran Durga Kumar, J. Ashok Kumar A one week online FDP on “Post Covid Green and Sustainable Development Practices in Manufacturing Industries” organized by the Department of Mechanical Engineering, CVR College of Engg. Hyderabad, India organized from 17/01/2022 to 21/01/2022.
3. Dr. S. Madhusudan, Dr. V. Ajay Kumar, B. Kiran Babu A two week online FDP on “Recent advances in Materials and Challenges in Manufacturing Techniques” organized by the Department of Mechanical Engineering, JNTUK, Kakinada, India organized from 07/02/2022 to 19/02/2022.
4. KVV NagaRaju, CH. Venkata krishna, N. Siva Krishna A two week online FDP on “Recent advances in Materials and Challenges in Manufacturing Techniques” organized by the Department of Mechanical Engineering, JNTUK, Kakinada, India organized from 07/02/2022 to 19/02/2022.

CERTIFICATIONS COURSES THROUGH NPTEL

Nil

STUDENT ACTIVITIES

INDUSTRIAL VISTS/WORKSHOPS/SKILL DEVELOPMENT PROGRAMS

INDUSTRIAL VISIT

Nil

WORKSHOPS/SEMINARS

The department of Mechanical Engineering organized -----

1. A Seminar on " Seminar on Automation in Smart Factories (Industry 4.0) " by Dr. N. Ramanaiah, Professor, Andhra University, Visakhapatnam, for ME students on 27/12/2021.
2. A Seminar on "Soft Robotics and Its Applications" " by Dr. K. Ramji, Professor, Andhra University, Visakhapatnam. for ME students on 19/02/2022.
3. A Seminar on " Shape Memory Alloys and Their Applications " by Dr. Gopi Krishna, Assistant Professor, Acharya Nagarjuna University, Guntur for ME students on 23/02/2022.

PARTICIPATIONS IN PROFESSIONAL EVENTS

1. B Vijay Jeevan Kumar, M Sasi Kumar has participated and won 2nd prize in the event Project Expo at DNR College of Engineering & Technology, Bhimavaram, Andhra Pradesh on 16-03-2022.
2. D Mohan Surya, T Naga Maha Akhilesh has participated and won 2nd prize in the event Project Expo at DNR College of Engineering & Technology, Bhimavaram, Andhra Pradesh on 16-03-2022.
3. K Srikanth, N Sai Dinesh has participated and won 2nd prize in the event Poster Presentation at DNR College of Engineering & Technology, Bhimavaram, Andhra Pradesh on 16-03-2022.
4. K Ratnakar, M Naga Malleswara Rao has participated and won 2nd prize in the event Poster Presentation at DNR College of Engineering & Technology, Bhimavaram, Andhra Pradesh on 16-03-2022.
5. 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 18-03-2022.
6. N Leela Prasad, K Lakshman has participated in the event Project Expo at Andhra Loyola Institute of Engineering and Technology, Vijayawada on 18-03-2022.
7. 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 18-03-2022.
8. M Sasi Kumar, B Vinay Kumar has participated in the event Poster Presentation at Andhra Loyola Institute of Engineering and Technology, Vijayawada on 18-03-2022.
9. D Rambabu, K Durga Prasad, K Srikanth has participated and won 2nd prize in the event Technical Quiz at Swarnandhra College of Engineering & Technology, Narsapur, Andhra Pradesh on 29-04-2022.
10. N Sai Dinesh, K Ratnakar, M Naga Malleswara Rao has participated in the event Technical Quiz at Swarnandhra College of Engineering & Technology, Narsapur, Andhra Pradesh on 29-04-2022.

11. Y Sriharsha, B Vijay Jeevan Kumar, M Sasi Kumar has participated and won 2nd prize in the event Poster Presentation at Swarnandhra College of Engineering & Techonlogy, Narsapur, Andhra Pradesh on 29-04-2022.
12. D Mohan Surya, T Naga Maha Akhilesh, V Leela Naga Sandeep has participated in the event Poster Presentation at Swarnandhra College of Engineering & Techonlogy, Narsapur, Andhra Pradesh on 29-04-2022.

CONFERNCES

1. N. Dileep, CH. Sai Manikanta, P. Tarun, Y. Sri Harsha has presented a paper titled “Role of Heat Treatment on Microstructure and Mechanical Properties of Al7075” in the Virtual International Conference on Research Contributions in Mechanical Engineering (ICRCME-2022), organized by Department of Mechanical Engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru during 25 – 26 February 2022.
2. M. Sri Harsha, K. Venkateswara, Ch. Tarun Sai, Ch. Kranthi “Mechanical Properties of Glass Epoxy composites in addition to TiO₂ particles” International Conference on Emerging Trends In Mechanical Engineering and Industrial Automation – 2021, (NEC-ICETMEIA-2021), 30th & 31st July 2021, at Narasaraopet Engineering College, Andhra Pradesh, India. ISBN No: 978-93-91420-42-0.
3. O. Govindu, M. Sai Kiran, V.L. Siva Rama Krishna, P. Jagadeesh “Process parameters Optimization in Abrasive Jet Machining for Deep Hole Making in Al7075 using Taguchi Methods” International Conference on Emerging Trends In Mechanical Engineering and Industrial Automation – 2021, (NEC-ICETMEIA-2021), 30th & 31st July 2021, at Narasaraopet Engineering College, Andhra Pradesh, India. ISBN No: 978-93-91420-42-0.
4. D Kamal Babu, G Naveen, B Surya Sai “Okra Banana Empty Fruit Bunch Fiber Reinforced Hybrid Composites: Failure Analysis of Bolted and Adhesive Bonded Joints” International Conference on Recent Advances in Mechanical Engineering and Materials Characterization (ICRAME-2021), 26th & 27th March 2021 at Prasad V Potluri Siddhartha Institute of Technology, Andhra Pradesh, India.
5. K Dilip Kumar, B Avathar Singh, T Rajesh, N Suresh “Validation of Mechanical Properties through ROHM Method for Kenaf and Acant hasicyos Natural Fibre Composites” ” International Conference on Recent Advances in Mechanical Engineering and Materials Characterization (ICRAME-2021), 26th & 27th March 2021 at Prasad V Potluri Siddhartha Institute of Technology, Andhra Pradesh, India.
6. V N Eswar Kumar, Ch Praveen, A Naga Harish, K Rajesh “Investigation on Materials Removal Rate and Taper Angle in Abrasive Aqua jet Machining of Al7075/sic/gr Composites using RSM Approach” won 3rd prize, International Conference on Emerging Trends In Mechanical Engineering and Industrial Automation – 2021, (NEC-ICETMEIA-2021), 30th & 31st July 2021, at Narasaraopet Engineering College, Andhra Pradesh, India. ISBN No: 978-93-91420-42-0.

మోటివేషన్ స్పీచ్ (Motivational Speech)

ప్రియమైన విద్యార్థులారా,

జీవితంలో విజయం సాధించాలంటే ముందు మనసులో ఒక స్పష్టమైన లక్ష్యం ఉండాలి. లక్ష్యం లేకుండా ప్రయాణం చేయడం అంటే దారి తెలియకుండా నడిచినట్లే. కాబట్టి మీరు ఎక్కడికి చేరాలనుకుంటున్నారు? ఏమవ్వాలనుకుంటున్నారు? అన్నది ముందుగా నిర్ణయించుకోండి.

విజయం ఒక్క రోజులో రాదు. అది చిన్న చిన్న ప్రయత్నాల సమాహారం. ప్రతి రోజు మీరు చేసే కృషి, మీరు నేర్చుకునే కొత్త విషయాలు, మీరు ఎదుర్కొనే కష్టాలు—all these shape your future. కష్టాలు వచ్చినప్పుడు భయపడకండి. అవే మీకు బలాన్ని ఇస్తాయి.

“నేను చేయలేను” అనే ఆలోచనను వెంటనే మార్చండి. “నేను ప్రయత్నిస్తాను” అని చెప్పండి. ఎందుకంటే ప్రయత్నం చేయకపోతే ఓటమి ఖాయం. కానీ ప్రయత్నిస్తే విజయం వచ్చే అవకాశం ఉంటుంది.

ఇతరులతో పోల్చుకోవద్దు. ప్రతి ఒక్కరి ప్రయాణం వేరు. మీ సామర్థ్యాన్ని మీరు గుర్తించండి. మీ బలాలను ఉపయోగించండి. మీరు చేసే పని పట్ల నమ్మకం ఉంటే, ఎవరూ మిమ్మల్ని ఆపలేరు.

విజయం సాధించిన వారు ఎప్పుడూ ఓటమిని ఎదుర్కొనలేదు అనుకోవద్దు. వారు ఓటమిని పాఠంగా తీసుకుని ముందుకు వెళ్లారు. అదే గొప్పతనం.

చివరగా ఒక విషయం గుర్తుంచుకోండి:

“కష్టపడి పనిచేసే వారికి విజయం తప్పక వస్తుంది.”

ధన్యవాదాలు.

