



**RGM College of Engg. &
Tech. (Autonomous)**

Nandyal - 518501, Andhra Pradesh, India



Department of Mechanical Engineering

Organizes

**26th National-level Student Technical
Symposium**

Ripple 2k23



**16th - 17th February 2023
(Hybrid mode)**

**Pre-Symposium Internship
16th - 20th January 2023**

**Post-Symposium Technical Workshops
18th February 2023**

<https://www.rgmcet.edu.in/department-of-me>



@ripple_2k23



ABOUT RGM CET

RGM CET Nandyal was inaugurated on 09.03.1996 by Late Sri P. V. Narasimha Rao, the former P.M. of India and Sri N. Chandrababu Naidu, the former C.M. of A.P. It is the dedicated commitment and effort of our Chairman, the man with vision “Vidyarathna” Dr. M. Santhi Ramudu, who started the institution with a motto “EDUCATION FOR PEACE & PROGRESS”. This institute is one of the top engineering colleges of A.P. It has been conferred Autonomous status by UGC in 2010 and has upgraded the curriculum and regulations as per the needs of the industry 4.0 and society from time to time. All the UG eligible Courses in the institute are accredited four times by NBA and recently in Tier-I category. The institute has also got accredited by NAAC with A+ grade (3.54 out of 4.0 CGPA). The institute has been accredited by TCS for placements and training. The institute has DSIR recognition for the exemption of excise duty for the research equipment procured. The institute is ISO 9001-2015 certified. The Jawahar Knowledge Center of the institute has been awarded as the best JKC center twice by the Govt. of A.P. for highest campus placements. The Institute offers number of Skill Development Programs and has been sanctioned the DDU-KK under Ministry of HRD. The institute has been conferred with College with Potential for Excellence (CPE) by UGC, New Delhi in 2016. The institute has been recognized as SIEMENS INC. TSDI by APSSDC in 2016, apart from establishing two CM's Skill Centers in 2018. On a continuous basis this institution is embarking on a journey towards excellence in quality education and research.

ABOUT DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering has been functioning since the inception of the Institute i.e., 1995 and is offering UG : B. Tech course in Mechanical Engineering with an intake of 120 & PG : M. Tech in Machine Design with an intake of 18. Department has been accredited by NBA (Tier-I). The department has been recognized as a research center by JNTUA-Anantapur to carry out Ph.D. Program on regular basis. The department of ME is completed/equipped with 2crores worth of R&D projects sponsored by AICTE, DST-SERB, DST-FIST and sponsored equipment for measurement of beam and global radiation of solar. Also, the institute is equipped with 500 kW solar PV power plant. More than 300 research articles are published in various reputed journals and 6 patents are granted & 15 patents are filed by the faculty and students of the department. The curriculum of ME is designed keeping in view of the industry 4.0 requirements in India and Overseas. The primary focus of the curriculum is imparting industrial and societal problem identification skill and promotes problem-solving skill. The students are encouraged to be a part of various clubs for overall development of personality. The department is having well qualified and dedicated teaching staff with 16 PhD's and others are pursuing. Our labs worth 2.5 crores have state of the art facilities to carry out projects for the development of technologies. All the faculty members are involved in research and development activities.

ABOUT SYMPOSIUM

Vision of RIPPLE 2k23 is to promote excellence in scientific knowledge and innovations in the field of mechanical engineering and related disciplines to motivate young researchers. This prestigious symposium is being conducted for the past 25 years. The primary objective of this conference is to provide a platform to students, academicians, researchers and scholars to deliberate on various contemporary practices in Mechanical Engineering in this digitized era leading to Industry 5.0. The event consist of various technical and non-technical sessions.

TECHNICAL EVENTS

- PAPER PRESENTATION
- POSTER PRESENTATION
- DESIGNATHON
- PSEUDO CODES
- PROJECT EXPO
- TECHNICAL QUIZ
- IDEA KNOCKDOWN
- ROBO RACE
- MAZE RUNNER
- MECHA GALLERY

NON-TECHNICAL EVENTS

- TREASURE HUNT
- SHORT FILM CONTEST
- LA EXPO DE TALENTO
- MEME MACHINE
- JUNK ART
- CAPTURE IT
- FACE PAINTING
- SIGHT ON SITE
- BEST DRAMEBAAZ
- SLOW ROADS

ABOUT PRE-SYMPOSIUM INTERNSHIP

40 hours Intensive training on Advanced HVAC Energy Simulation using Design Builder. Training consists of modules on heat load calculation, air flow design and distribution, preparation of energy balance sheet and part load efficiencies. Also, it includes Hands-on practice on energy simulation tool Design Builder as per ECBC code Compliance.

ABOUT POST-SYMPOSIUM TECHNICAL WORKSHOPS

1. **NDT in Quality and Energy Sector:** Introduction, Different types of NDT and their importance.
2. **CNC Machines:** Introduction, Types of machines, programming and parts.
3. **3D printing:** Introduction and component production using 3D printing.
4. **IC Engine:** Introduction, wheel alignment and wheel balancing.

INSTRUCTIONS TO THE PARTICIPANTS

- Maximum of two authors per paper and per poster.
- An author can submit a maximum of two papers.
- Soft copy of the paper should be emailed to ripple2k23@gmail.com
- Format of the paper as per template in the website (<https://www.rgmcet.edu.in/department-of-me>).
- Registration fee for all Technical and Non- Technical events is ₹50/- per participant
- Technical workshop is charged at ₹150/- per participant
- Pre-symposium internship training is charged at ₹500/- per participant
- Kindly register yourself at <https://www.ripple2k23.com/>

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