

## About NEC

The Narasaraopeta Engineering College was established in the year 1998 by Gayatri Educational Development Society, Narasaraopet, under the leadership of Sri M.V.Koteswara Rao, who has a vision of developing this college as an autonomous institution of higher learning & knowledge in the heart of Palnadu region. The college is approved by AICTE, permanently affiliated to JNTUK Kakinada, Accredited 'A' Grade by NAAC and Accredited thrice by NBA. NEC is announced as 'AUTONOMOUS' in the year 2016. The college has launched Incubation Centre where the students can implement their ideas. The college has an MOU with Oracle University (USA). The college has AP CM Excellence centre, AI&ML centre and MSME centre. The college offers Seven M.Tech programmes, Two PG courses of MCA, MBA and Seven courses at B.Tech level in the branches EEE, CSE, CSE-AI, IT, ECE, ME and CIVIL. The college has well equipped laboratories and computers. Microsoft Innovation Centre was established in the college. In order to build a vibrant entrepreneurship ecosystem Venture Development Centre (VDC) is established in association with i2E North Eastern University, USA and APSSDC. Also, the college has Indo-European skilling Centre for Mechatronics and Industrial Robotics in collaboration with APSSDC and ARC (Applied Robot Control), Germany. AP CM's Skill Excellence Center is also established to provide students access to the most advanced courses by industry giants. The college has MOU with New Mexico State University, USA, which enables student and faculty exchange programs.

Narasaraopet is known as the gateway of Palnadu. Narasaraopet is a town in Guntur district and is on the railway line of Guntur to Guntakal. Narasaraopet is 50 Km from Guntur and 25 Km from Chilakaluripet (NH5) by road. Narasaraopet is 120 Km away from Vijayawada Airport. Kotappakonda is the site of major religious pilgrim place of Lord Siva which is located 5 Km from NEC.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in the year 2002 with an intake of 60 students and in course of time it has increased to 120. The department offers UG and PG programs. PG programs are being offered in specialization of Machine Design and Thermal Engineering. The UG program of the department is accredited twice by AICTE-NBA. The department is recognized as research and development center by JNTUK, Kakinada. The department has excellent infrastructure like E class rooms, AC seminar hall and is well equipped with modern laboratories like Dassault systems and ARC laboratory. Department has equipment beyond curriculum like stir casting machine, 3D printer, Fatigue testing machine, Five gas analyzer, Ultrasonicator, Tool makers microscope, magnetic particle tester etc.,. The department faculty encourages the students to implement innovative ideas in their project works and R&D. Many of the faculty members are upgrading their skills by attending the FDP, conferences, seminars and workshops in innovative and thrust area technologies regularly. The department has student chapters ISTE & IE(I).

### Chief Patron

**Sri M.S.Chakravarthi,**

B.Tech, MS (US), e-MBA (ISB-Hyd)

Vice-Chairman, NEC Group

### Patrons

**Sri M.V. Koteswara Rao,** B.Sc.,

Chairman, NEC Group

**Sri M. Ramesh Babu,** B.Com.,

Secretary, NEC Group

### Co-Patrons

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M.Tech, Ph.D (UK), MISTE, FIE(I)

Principal, NEC

**Dr. D.Suneel,**

M.Tech, Ph.D, FIE(I), MISTE, MRSI

Vice Principal, NEC

### Convenor

**Dr. B.Venkata Siva,**

M.Tech., Ph.D., MISTE, ISNT

Head, Dept. of ME

### Co-Convenors

**Dr. D.Jagadish,** M.Tech, Ph.D.

Professor, Dept. of ME

**Dr. P.Suresh Babu,** ME, Ph.D.

Professor, Dept. of ME

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**Mr. M. Venkaiah**

**Mr. P. Srinivasa Rao**

**Mr. Ch. Sekhar**

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**Mr. N. Vijaya Sekhar**

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**Mr. T. Ashok Kumar**

**Mr. B. Rambabu**

**Mr.T.N.V.Mahesh Babu**

**Mr.D.Mojeswara Rao**



**NARASARAOPETA**  
**ENGINEERING COLLEGE**  
(AUTONOMOUS)



(Approved by AICTE, New Delhi &  
Permanently affiliated to INTUK, Kakinada,  
Accredited by NBA & NAAC 'A' Grade)

## INTERNATIONAL CONFERENCE ON Emerging Trends in Mechanical Engineering and Industrial Automation

**NEC-ICETMEIA-2K21**

**(VIRTUAL)**

**30<sup>th</sup> - 31<sup>st</sup> July, 2021**

Organized By

Department of

**Mechanical Engineering**

In Association With

The Institution of Engineers (India)



**Narasaraopeta Engineering College (Autonomous)**

Kotappakonda Road, Yellamanda (Post),  
Narasaraopet – 522601, Guntur District, A.P.  
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E-Mail: icetmeia2021@gmail.com, mechhod@nrtec.in

Website: <http://www.nrtec.in>



## ABOUT THE INTERNATIONAL CONFERENCE

The objective of NEC-ICETMEIA-2021 is to create an international conglomeration of scientists, engineers, and industrial experts. This forum serves as a platform where people can share information about latest diverse technological advancements, innovations, and achievements in the areas of Mechanical engineering and allied fields of engineering. Further, it would also facilitate discussion that centers on the developments and challenges in the fields of design, manufacturing, thermal, robotics, mechatronics fields of engineering.

The focus of this conference is to provide a technical platform that encourages scientific research and educational activities that would cater to the needs of both society and the industry. Most importantly, NEC-ICETMEIA-2k21 is invested in the advancement of a common man's life by utilizing the theory and practice of Mechanical Engineering and allied fields of engineering. The conference includes a keynote address and guest lectures by eminent speakers around the globe who would deliberate the recent trends and challenges in the field of mechanical engineering & industrial automation.

## TOPICS OF THE CONFERENCE

- Advanced Manufacturing Processes
- 3D Printing
- Green Manufacturing and Industry 4.0
- Conventional & Non-conventional machining processes
- Finite element analysis
- Product design & development
- Mechatronics & Robotics
- Non-Conventional Energy Resources
- Green energy & Energy harvesting
- Refrigeration & Air conditioning
- Tribology
- Combustion & Pollution
- Sensors & Actuators
- Flow measurements
- Advanced Composite Materials
- Dispersion and Dispersants
- Polymer composites
- Metal matrix composites
- Smart materials
- Biomaterials
- Solar Energy
- Surface Science & Engineering

## SUBMISSION GUIDELINES

Authors intending to present papers are requested to send two hard copies of full length paper in IEEE format not exceeding 5 pages along with a soft copy send through e-mail: icetmeia2021@gmail.com. The selected papers will be notified for registration.

- ❏ Number of Authors per paper is limited to four only.
- ❏ E-certificate will be provided to authors presentation and present during their paper presentation.
- ❏ ISBN International conference proceedings will be provided with an additional charge of INR 350 (Cost of one book)
- ❏ International Conference will be conducted on Microsoft Teams.

All submissions must include Title, Author(s) and Affiliation(s), Full Address for correspondence including phone number and e-mail id.

## PARTICIPANTS

Research Scholars / Academicians / Industrial Professionals / students

## CONFERENCE ADVISORY COMMITTEE

- Prof. Marina L. Galano, Dept. of Materials Science, UNIVERSITY OF OXFORD, UK  
Dr. Rukmini Srikant Revuru, Assoc. Prof. University of Northern Iowa, Cedar Falls, IA, USA  
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Dr. P.S.Rama Sreekanth, Dept. of ME, VIT, A.P  
Mr. Jnanananda Rao Kadi, Deputy Manager, Bharat Dynamics Ltd., Hyderabad.  
Dr.Srinivasu Gangisetty, Asst. Prof. Dept. of ME, NIT, Raipur

## IMPORTANT DATES

- Paper Submission opens from : 20<sup>th</sup> June, 2021  
Paper Submission closes on : 10<sup>th</sup> July, 2021  
Acceptance Intimation : 15<sup>th</sup> July, 2021  
Camera Ready Paper,  
Copy right form Submission & : 17<sup>th</sup> July, 2021  
Author Registration  
Conference Dates : 30<sup>th</sup> & 31<sup>st</sup> July, 2021

## REGISTRATION DETAILS

Categories	Registration Fees
Research Scholars / Faculty	Rs. 300/-
R & D / Industry	Rs. 600/-
Foreign Delegates	US\$ 50

## SPONSORSHIP

Mr./Ms. \_\_\_\_\_  
is working /studying in our Institution/ Organization and his / her application is hereby sponsored / forwarded for attending the above international conference. The participant would be permitted to attend the international conference, if selected.

Place:

Date :

Seal :

Signature of the  
Principal / Head of the Department

**NARASARAOPETA ENGINEERING COLLEGE**  
(AUTONOMOUS)  
Narasaraopet – 522601, Guntur District, A.P.  
**INTERNATIONAL CONFERENCE ON EMERGING TRENDS**  
**IN MECHANICAL ENGINEERING AND INDUSTRIAL AUTOMATION**  
NEC-ICETMEIA-2K21  
(VIRTUAL)  
30<sup>th</sup> - 31<sup>st</sup> July, 2021

## APPLICATION FORM

1. Name (in Block Letters): .....
2. Designation : .....
3. College / Organization : .....
4. Address for Communication : .....
- Phone No. (with STD Code) : .....
- Mobile No. : .....
- E-mail ID : .....
5. Title of the Paper : .....
6. Fees: (Tick ✓ whichever is applicable)  
For Students/Faculty : INR 300  
For R&D / Industry : INR 600  
For Foreign delegates : US\$ 50
7. Mode of Payment: Phone Pay/GPay/Online Transfer  
Name of the Beneficiary : **Narasaraopet Engineering College**  
Special Saving Account No : **476010100026877**  
Bank Name : **Axis Bank (Narasaraopet Branch)**  
IFSC Code: **UTIB0000476**

## DECLARATION

The information provided by me is true to the best of my knowledge. If selected, I agree to abide by rules and regulations of the organization and shall attend the international conference for the entire duration. I also undertake the responsibility to inform the Convener, in case I am unable to attend the international conference.

Place:

Date :

Signature of the Participant