

## MECHANICAL ENGINEERING DEPARTMENT NEWS LETTER

### "We Build Machines that Build Nation"

#### VISION

- To strive for making competent mechanical engineering Professionals to cater the real time needs of Industry and Research Organizations of high repute with entrepreneurial skills and ethical values

#### MISSION

- To train the students with state of art infrastructure to make them industry ready professionals and to promote them for higher studies and research.
- To employ committed faculty for developing competent mechanical engineering graduates to deal with complex problems.
- To support the students in developing professionalism and make them socially committed mechanical engineers with morals and ethical values..

#### MODERN TRENDS IN TECHNOLOGY :

**Additive Manufacturing (AM)** is a transformative approach to industrial production that enables the creation of lighter, stronger parts and systems. It is yet, another technological advancement made possible by the transition from analog to digital processes. In recent decades, communications, imaging, architecture and engineering have all undergone their own digital revolutions. Now, AM can bring digital flexibility and efficiency to manufacturing operations. Additive manufacturing uses data computer-aided-design (CAD) software or 3D object scanners to direct hardware to deposit material, layer upon layer, in precise geometric shapes. As its name implies, additive manufacturing adds material to create an object. By contrast, when you create an object by traditional means, it is often necessary to remove material through milling, machining, carving, shaping or other means. Although the terms "3D printing" and "rapid prototyping" are casually used to discuss additive manufacturing, each process is actually a subset of additive manufacturing. While additive manufacturing seems new to many, it has actually been around for several decades. In the right applications, additive manufacturing delivers a perfect trifecta of improved performance, complex geometries and simplified fabrication. As a result, opportunities abound for those who actively embrace additive manufacturing.



#### FACULTY FOCUS:

#### FACULTY PUBLICATIONS:

- Principal Dr.M.Sreenivasa Kumar published a Journal paper entitled "A Novel Hybrid Transform approach with integration of Fast Fourier, Discrete Wavelet and Discrete Shearlet Transforms for prediction of surface roughness on machined surface", ELSEVIER : Measurement Volume : 164 (2020), pp 1-14.

- PilliSravani, Assistant professor published a Journal paper entitled "The Systematic Comparison on Analysis of Parallel Flow and Counter Flow Heat Exchanger by using CFD and Practice Methods", International Journal for Modern Trends in Science and Technology 2021, 7, 23 November 2021, pp. 153-161.
- Vice Principal Dr.D.Suneel published a Journal paper entitled "Machining Characteristics and Microbiological Growth of Stir Casted A356 – SiC MMCs and Pure Metals", , PP. , ISBN.
- Dr.P.Suresh babu Associate professor published a Journal paper entitled "Machining Characteristics and Microbiological Growth of Stir Casted A356 – SiC MMCs and Pure Metals", , PP. , ISBN.
- Dr.P.Suresh babu Associate professor published a Journal paper entitled "Investigations on Hardness, Machinability and Electrical Conductivity of Stir Casted A356 Nanocomposites Reinforced with SiC Nanoparticles with Ultrasonic Assisted Cavitation", in Applied Mechanics and Materials, Trans Tech Publications Ltd, Switzerland, ISSN: 1662-7482, Vol. 903, PP. 107-115, April 2021, Indexed in Index Copernicus Journals Master List, Google Scholar, EBSCOhost Research Databases etc.

#### FACULTY ACHIEVEMENTS:

#### WORKSHOPS/CONFERENCES/WEBINARS/FDPS/QUIZ/ATTENDED:

- Dr.M.Sreenivasa Kumar, paper entitled "3d printing of prototype through image processing using autodesk recap photo software", A Virtual International Conference On "Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)" organized by Department of Mechanical engineering, NEC, From 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
- Dr Suneel Donthamsetty, paper entitled "Machining Characteristics and Microbiological Growth of Stir Casted A356-SiC MMCs and Pure Metals", A Virtual International Conference On "Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)" organized by Department of Mechanical engineering, NEC, From 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
- Dr.Penugonda Suresh Babu paper entitled "Machining Characteristics and Microbiological Growth of Stir Casted A356-SiC MMCs and Pure Metals", A Virtual International Conference On "Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)" organized by Department of Mechanical engineering, NEC, From 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
- Dr B. Venkata Siva paper entitled "CFD Analysis Of Super Utility Vehicle To Determine Aerodynamic Behaviour", A Virtual International Conference On "Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)" organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
- Dr B. Venkata Siva paper entitled "A Study And Synthesis Of 8 Bar One Degree Of Freedom Walking Mechanism", A Virtual International Conference On Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)" organized by Department of Mechanical engineering, NEC, during 30-07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
- Dr B. Venkata Siva paper entitled "3d printing of prototype through image processing using autodesk recap photo software", A Virtual International Conference On "Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)" organized by Department of

- Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
- DrD.Jagadishpaper entitled **“Establishment of SCR Test facility and Evaluation of 8mm pitch Honeycomb Type Catalyst in a 20 Liter capacity SCR Test facility”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4
  - DrD.Jagadishpaper entitled **“Comparative Performance Analysis of Engine Fuelled with Diesel Biodiesel Iron Oxide Nano Particles”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4
  - Ch.Sekhar paper entitled **“Comparative Performance Analysis of Engine Fuelled with Diesel Biodiesel Iron Oxide Nano Particles”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - Ch.Sekhar paper entitled A **“Comprehensive Review on recent research on Semi Solid Processed Aluminium 7 Series Alloys”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - Ch.Sekhar paper entitled A study on microstructure and mechanical Properties A7075 Reinforced with Flyash/Sic hybrid metal matrix composite”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - Ch.Sekhar paper entitled **“Experimental Investigation In Single Cylinder Vcr Multifuel Engine Using Bio-Diesel As Linseed Oil”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - M.Venkaiah paper entitled **“Devlopment of Code for Automated HVAC System using Digital Controller”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - M.Venkaiah paper entitled **“Experimental Investigation In Single Cylinder Vcr Multifuel Engine Using Bio-Diesel As Linseed Oil”**,A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - M.Venkaiah paper entitled **“Study of Rheological characteristics of nano suspensions”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation(ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - M.Venkaiah paper entitled **“Optimisation in WEDM of HCHCR Steel using Taughi Method”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - Sk.Bajan paper entitled **“Li-Br H2O VAR System Analysis by Applying Magnetic Field to Liquid Line”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, From 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - Sk.Bajan paper entitled **“Performance analysis of a CI Engine fuelled with olive oil and soybean oil mixture as a biofuels”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, From 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - M.Venkanna Babu paper entitled **“Design and Fabrication of Radiant Cooling System”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - M.Venkanna Babu paper entitled **“Determinatio Of Efficient Location Of Split Air Conditioner Using CFD”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - M.Venkanna Babu paper entitled **“3d printing of prototype through image processing using autodesk recap photo software”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - P.Sravani paper entitled Study of **“Performance and emission characteristics in direct-injection compression-ignition engine fuelled with pond water algae biodiesel”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-9142-02-4.
  - P.Sravani paper entitled **“The Analysis on Concentric pipe Heat Exchanger”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, From 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - P.Srinivasarao paper entitled **“Performance And Emission Characteristics Of Diesel Engine With Linseed Oil-Diesel Blends As Fuel With VCR”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - P.Srinivasarao paper entitled **“CFD Analysis of Two Pass Double Pipe Heat Exchanger with TiO<sub>2</sub>/Ethylene Glycol Nano Fluid”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - P.Srinivasarao paper entitled **“COP Enhancement of VCR System Using Diffusers”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02-4.
  - K.Kiran Chand paper entitled **“Performance And Emission Characteristics Of Diesel Engine With Linseed Oil-Diesel Blends As Fuel With VCR”**, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (ICETMEIA-2K21)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.

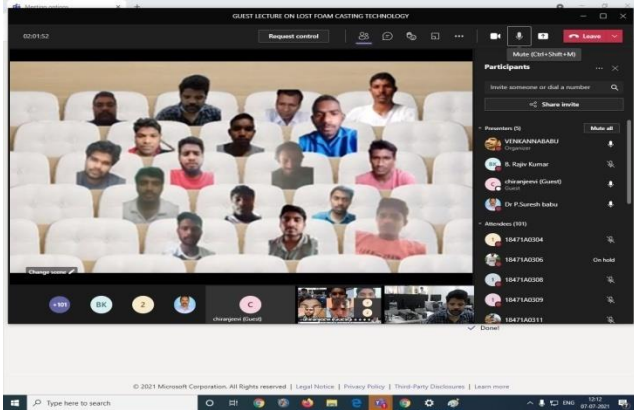
- K.Kiran Chand paper entitled “**Modelling and Optimization of Two Wheeler Disk Brake Using ANSYS -Review**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02
- K.Kiran Chand paper entitled “**Design and Analysis of Wheel Rim on Radial Loads**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02
- K.Kiran Chand paper entitled “**Automated Pneumatic Sheet Metal Cutting Machine**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- K.John Babu paper entitled “**AutomatedPneumatic Sheet Metal Cutting Machine**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02
- K.John Babu paper entitled “**Design and Analysis of Wheel Rim on Radial Loads**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- K.John Babu paper entitled “**Modelling and Optimization of Two Wheeler Disk Brake Using ANSYS -Review**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- B.Rambabu paper entitled “**Design and finite element analysis of gas turbine blade**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- B.Rambabu paper entitled “**Manufacturing of Hyperboloidal Gear Model Using Ultimaker S5 3D Printing Machine**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- B.Rambabu paper entitled “**Design and Analysis of Landing Gear**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02
- N.Vijaya Sekhar paper entitled “**Design and analysis of cantilever beam**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- N.Vijaya Sekhar paper entitled “**Analysis of static and fatigue strength of aluminium alloy wheel**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- B.Rajivkumar paper entitled “**Investigation on Mechanical Properties of Glass fiber and Carbon Nano tubes sandwich composite material**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- T.Ashok Kumar paper entitled “**Design and analyais of differential gear box**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- T.Ashok Kumar paper entitled “**Application of a thermoplastic polyurethane/polylactic acid composite filament for 3d-printed personalized orthosis**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- T.Ashok Kumar paper entitled “**Design and Analysis of a Connecting Rod**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- Sk.Meeravali paper entitled “**Performance analysis of a CI Engine fuelled with olive oil and soybean oil mixture as a biofuels**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02.
- A.Pavan Kumar paper entitled “**A Review on Parameters of Composite Materials**”, A Virtual International Conference On“Emerging Trends In Mechanical Engineering And Industrial Automation (**ICETMEIA-2K21**)” organized by Department of Mechanical engineering, NEC, during 30 -07-2021 to 31-7-2021, ISBN : 978-93-91420-02..
- PrincipalDr.M.Srineevasakumar,Professorpublished a text book“**Elements of Mechanical and Electrical Engineering**”, by Amaravati Publications.
- Dr.D.Jagadish ,Professor published a text book “**Elements of Mechanical and Electrical Engineering**”, by Amaravati Publications.
- Sk. KarimullaAssistant Professor published a text book “**Elements of Mechanical and Electrical Engineering**”, by Amaravati Publications.
- Principle Dr.M.Srineevasakumar ,Professor published a text book“**EngineeringWorkshop**”,byS International Publishers.
- Principle Dr.M.Srineevasakumar ,Professor published a text book“**Engineering Mechanics**”, by Sri Krishna Techno Books.
- Dr.B.VenkataSivaProfesor HOD published a text book “**Material Science and Metallurgy**”, bySpectrum Publishing House.
- Vice Principal Dr.D.Suneel Professorpublished a text book “**Material Science and Metallurgy**”, by Spectrum Publishing House.
- Dr.P.Suresh babu Associate professor published a text book “**Material Science and Metallurgy**”, by Spectrum Publishing House.
- P.SrinivasaraoAssistantProfessor published a text book “**Engineering Drawing**”, by Spectrum Publishing House.
- M.VenkannaBabuAssistant Professor published a text book “**Engineering Drawing**”, by Spectrum Publishing House.
- M.VenkaiahAssistantProfessor published a text book “**Engineering Drawing**”, by Spectrum Publishing House.
- Dr.P.Suresh babu Associate professor published a text book “**Material Science and Metallurgy**”, by Spectrum Publishing House.



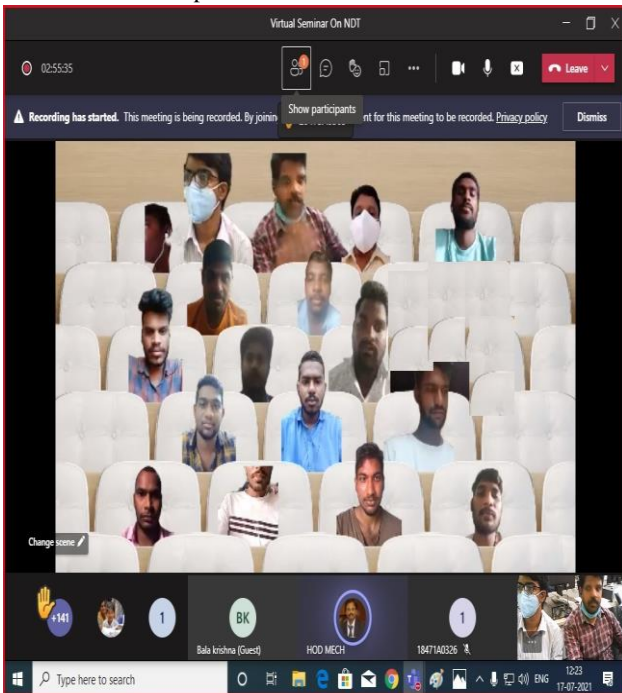
- Ch.Sekhar Assistant Professor published a text book **“Engineering Mechanics”**, by Sri Krishna Techno Books.
- D.Mojeswara Rao Assistant Professor published a text book **“Engineering Workshop”**, by S International Publishers.

#### DEPARTMENT ACTIVITIES:

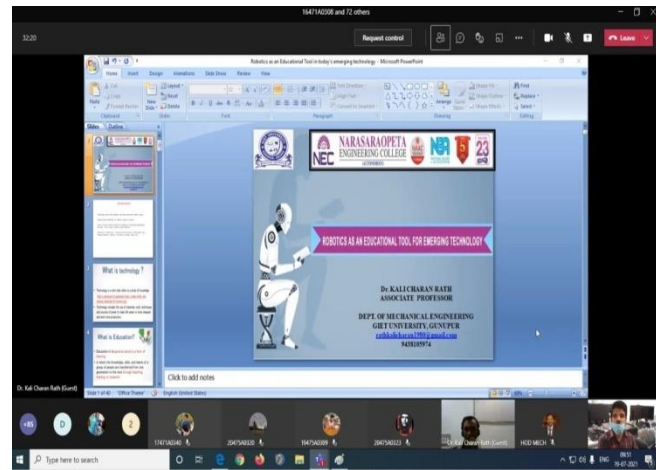
- Department has organized a Virtual Webinar on **“LOST FOAM CASTING TECHNOLOGY”** for second and third year students on 07/07/2021. For this webinar K.Chiranjeevi, Managing Partner, Indian Metal Work Ltd acted as a Resource person.



- Department has organized a Virtual seminar on **“AN INFORMATIVE TALK ON NDT, QA/QC & JOB OPPORTUNITIES IN OIL & GAS FIELD”** for second and third year students on 17/07/2021. For this seminar M.BALA KRISHNA, Quality Inspector, BITS NDT, VIZAG acted as a Resource person.



- Department has organized a Virtual seminar on **“ROBOTICS AS AN EDUCATIONAL TOOL FOR EMERGING TECHNOLOGY”** for second and third year students on 19/07/2021. For this seminar Dr. Kali Charan Rath, Associate Professor, Dept of Mechanical Engineering, GIET University, Gunpur, Odisha acted as a Resource person.

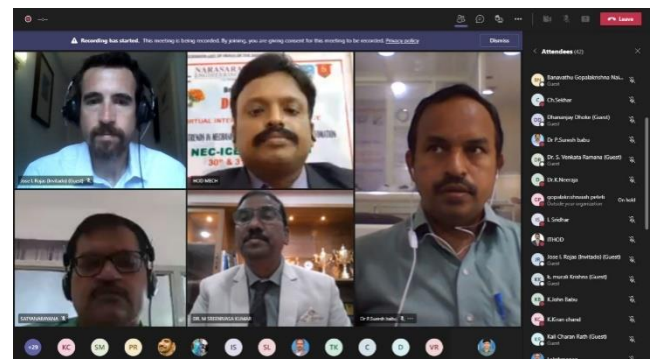


- Department has organized Virtual International Conference on **“EMERGING TRENDS IN MECHANICAL ENGINEERING AND INDUSTRIAL AUTOMATION”**, in association with The Institution Of Engineers (India).

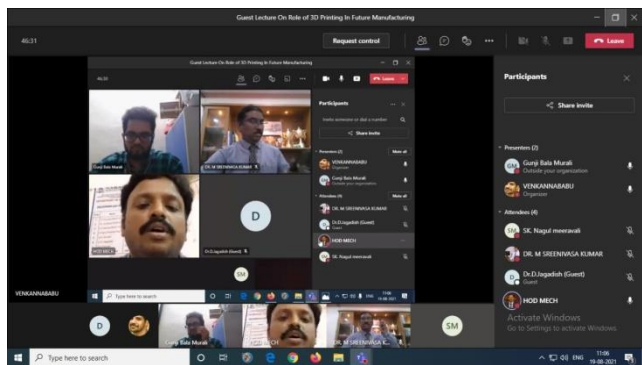
For this two days conference program

1. Dr. Jose I. Rojas, Associate professor, Division of Aerospace Engineering, Universitatpolitecnica de catalunya, Castelldefels, Spain.
2. Dr. Naresh Kakur, Research Staff, Department of Aerospace Engineering, Khalifa University of Science and Technology, Abu Dhabi, U.A.E. acted as keynote speakers and
3. Dr. Kali Charan Rath, Associate Professor, Department of Mechanical Engineering, GIET University, Gunpur, Odisha
4. Dr. K. Satyanarayana, Prof. & Head, Department of Mechanical Engineering, VVIT, Guntur.
5. Dr. G. Suresh, Associate Professor, Department of Mechanical Engineering, VFSTR University, Vadlamudi, Guntur.
6. Dr. Gunji Bala Murali, Sr. Asst. Professor, Department of Mechanical Engineering, VIT Vellore, Tamilnadu acted as session chairs.

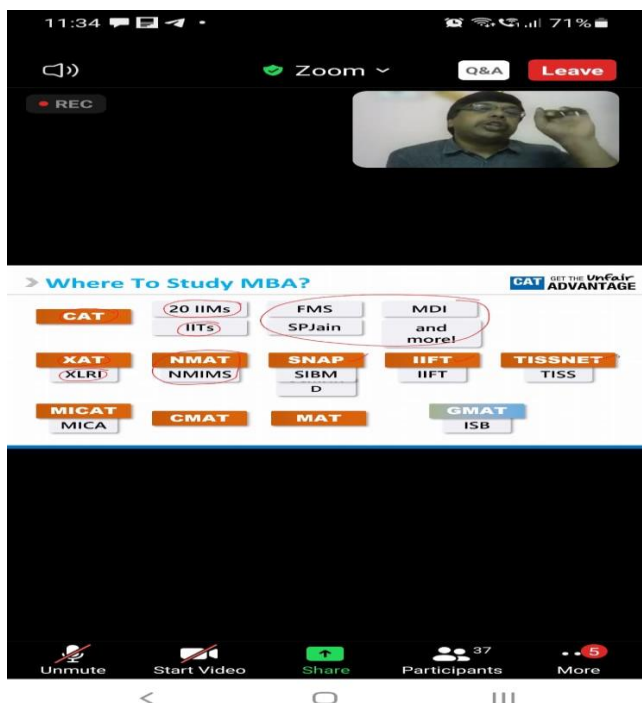
Around 100 Eminent speakers and guests from all over the world from different walks of life share their knowledge and vast experience.



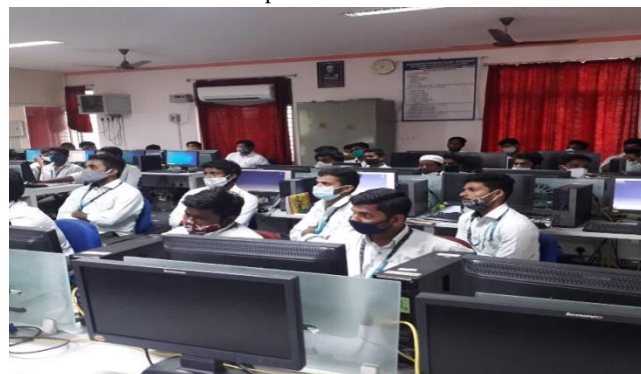
- Department has organized a Virtual seminar on **“ROLE OF 3D PRINTING IN FUTURE MANUFACTURING AND ITS RESEARCH SCOPE”** for third year students on 19/08/2021. For this seminar Dr G Bala Murali, from VIT, Vellore acted as a Resource person.



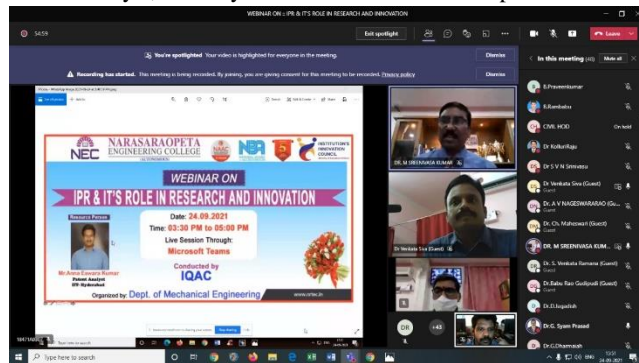
- Department has organized a Virtual seminar on **“ALL ABOUT MBA OPTIONS IN INDIA & OPPORTUNITIES FOR MECHANICAL STUDENTS”** for I, II, III, & IV year students on 20/08/2021. For this seminar Durga Sankar Bussetti, Chief Mentor, AP & Telangana and Vasanth Kumar, Lead Mentor, B.Tech (Mech), MBA acted as a Resource person.



- Department has organized a one week workshop on **“PRODUCT DESIGN & DRAFTING BY CATIA”** for final year students in association with APSSDC from 20-09-2021 to 25-09-2021. For this workshop Mr. N Mahesh Babu, Mr. A Tejoamarewar, Mr. N Srikanth, Ms. K Prasanna Lakshmi acted as resource persons.



- Department has organized a virtual seminar on **“IPR & IT'S ROLE IN RESEARCH AND INNOVATION”** in association with IQAC & IIC for I, II, III, & IV year students on 24/09/2021. For this seminar Mr. Anna Esvara Kunar, Patent Analyst, IIT - Hyderabad acted as a resource person.



- Department has organized **“ALUMNI TALK IN CAREER OPPORTUNITIES IN SOFTWARE INDUSTRY”** for final year students on 29/09/2021. For this talk, Mr. B. Raghu Vamsi Mechanical Alumni (Batch 2014-18) working as Engineer Trainee in Cognizant, Bangalore acted as resource person.



- Department has organized a workshop on **“DESIGN NOW”** for third year and final year students in association with ICT Academy and Autodesk Fusion 360 APSSDC on 30/09/2021.



- Department has organized a one-week workshop on **“PRODUCT DESIGN & DRAFTING BY SOLID EDGE”** for third year students from 04/10/2021 to 09/10/2021 in association with APSSDC. For this seminar Mr. N Mahesh Babu, Mr. N Srikanth, Mr. K. Jaya Durga Phani, Mr. V. Vijay Kumar acted as a Resource person.

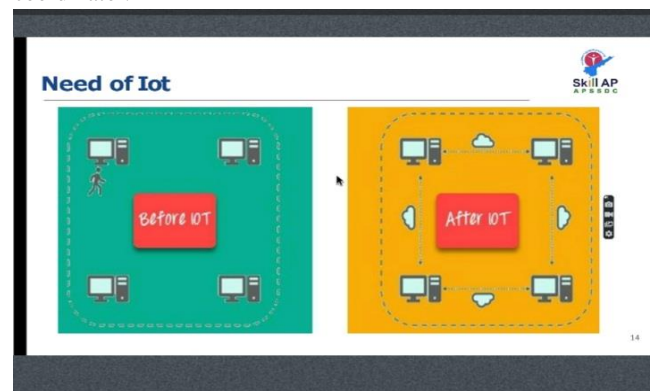




- Department has organized “**ALUMNI TALK IN CAREER OPPURTUNITIES IN SOFTWARE INDUSTRY**” for third year and final year students on 09/10/2021. For this talk, Mr Abdul Kadhar. Mechanical Alumni (Batch 2013-17) working as Senior User Experience Designer in Touchnote, acted as resource person.



- Department has organized a two-week workshop on “**INTERNET OF THINGS**” for second year students in association with APSSDC from 15/11/2021 to 27/11/2021. For this workshop Mr M. Venkaiah, Assistant Professor, Department of Mechanical Engineering, acted as a coordinator.



- Department has organized a “**TECH YANTRA 1.0 Event in Association with The Institute of Engineers India Students' AP State Chapter**” from 12/11/2021 to 13/11/2021. The Event is inaugurated by Dr..C.V. Sriram (Hon. Secretary, IEI) and Principal Sir. Total 260 students enrolled for different activities.



- Department has organized an “**ICT-Autodesk Design Now Workshop on FUSION 360 Session-2 in association with ICT Academy and Autodesk**” on 16/11/2021. The Event is inaugurated by Mr. S. RamKumar (Relationship Manager-ICT Academy), Mr. P Kranthi Kumar (Sr. Technical Trainer -ICT Academy) and Principal Sir. Around 81 students participated in this program



- Department has organized a two-week workshop on “**PROGRAMMABLE LOGIC CONTROLLER (PLC)**” for third year students in association with APSSDC from 15/11/2021 to 27/11/2021. For this workshop Mrs.M.Gokul Sukanya, APSSDC trainer acted as resource person.

- Department has organized a five day short training program on “**REVERSE ENGINEERING**” for third year students in association with NITTTR-Chandigarh from 25/11/2021 to 29/11/2021. For this workshop Mr M. Venkanna Babu, Assistant Professor, Department of Mechanical Engineering, acted as a coordinator.



- Department has organized a two-week workshop on **“RECENT TRENDS IN AUTOMOTIVE TECHNOLOGY”** for third year and final year students in association with Janatha Garage from 03/12/2021 to 04/12/2021. For this workshop Narasimha Reddy (Sr. Engineer, Automobile Industry) from Janatha Garage acted as resource person.



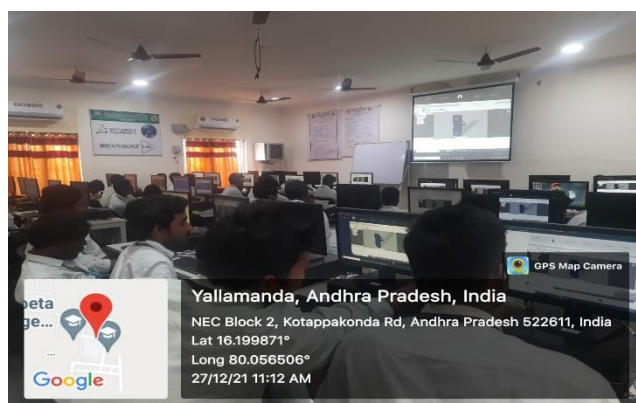
- Department has organized an alumni talk on **“MECHANICAL ENGINEERING IN SOFTWARE FIELD”** for third year and final year students on 03/12/2021. For this talk, Mr. Madhukar Reddy, Mechanical Alumni (Batch 2012-16) working in IBM, Bangalore, acted as resource person.



- Department has organized an alumni talk on **“MECHANICAL ENGINEERING IN SOFTWARE FIELD”** for final year students on 18/12/2021. For this talk, Mechanical Alumni (Batch 2013-17) Mr. M. Sai Yasaswi working in Virtual consulting Services Data Analyst Virtusa, Hyderabad, and Mr. Ch. Krishna Chaitanya Reddy working as Associate Consultant in Infosys, Hyderabad, acted as resource persons.



- Department has organized an **“ICT-Autodesk Design Now Workshop on FUSION 360 Session-3 in association with ICT Academy and Autodesk”** for third and final year students on 27/12/2021 in association with ICT Academy and Autodesk.



#### STUDENT FOCUS:

#### STUDENT PARTICIPATIONS IN WORKSHOPS / CONFERENCES/NSS PROGRAMS:

- K.Prudhivieswanthreddy third year mechanical student completed certification course on **“Problem Solving through Programming in C”**, from NPTEL-Online Certification.
- P.Naveen third year mechanical student completed certification course on **“Cyber security Awareness Training”**, from Amazon online certification program.
- U.Shanmukharao third year mechanical student participated and got certification course on **“Overview of Game Development with AR-VR”**, from SKYY RIDER INSTITUTIONS.
- Department has organized **“Mini Project Review”**, for final year students Dr.D.jagadish, Professor, and Ch.Sekhar, Associate Professor acted as Judges and Coordinator for this program on 26/11/
- V.Koteswararao third year mechanical student completed certification course on **“Fundamentals of Java”**, Programming Hub Google Developers online certification program.
- V.Koteswararao third year mechanical student participated workshop on **“30 Days Renewable Energy Master Class”**, Skill AP –APSSDC- Pantech e learning online certification.
- M.Stephen Williams third year mechanical student completed certification course on **“Cyber security Awareness Training”**, from Amazon online certification program.
- Shaik Mohammad Bilal third year mechanical student completed certification course on **“Cyber security Awareness Training”**, from Amazon online certification program.
- P.Gopinadh third year mechanical student completed certification course on **“Cyber security Awareness Training”**, from Amazon online certification program.
- O.Veeranjaneyulu third year mechanical student completed certification course on **“Cyber security Awareness Training”**, from Amazon online certification program.



- K.L.Vara prasad third year mechanical student completed certification course on “**Cyber security Awareness Training**”, from Amazon online certification program.
- O.Veeranjaneyulu third year mechanical student completed certification course on “**Airbags - important safety innovation of recent decades**”, SKILL- LINK online certification program.
- K.Prudhivieswanthreddy third year mechanical student participated workshop on “**A14 Students**”, Microsoft online certification.
- G.Chandra Shekhar third year mechanical student completed certification course on “**Cyber security Awareness Training**”, from Amazon online certification program.
- SK.Dastagiri third year mechanical student completed certification course on “**Whats app Security**”, from Information security Education awareness program.
- SK.Dastagiri third year mechanical student completed certification course on “**Password Security**”, from Information security Education awareness program.
- SK.Dastagiri third year mechanical student completed certification course on “**Cyber Hygeinie Practices**”, from Information security Education awareness program.
- SK.Dastagiri third year mechanical student completed certification course on “**Cyber Ethics**”, from Information security Education awareness program.
- U.Shanmukha Rao third year Mechanical student completed certification course on “**Hybrid Electric Vehicle**”, SKY RIDER INSTITUTIONS online certification program
- M.Sashank Second year Mechanical student participated workshop on “**E-Motor NVH Active Sound Design for Electric Vehicles**”, SKY RIDER INSTITUTIONS online certification program.
- Veerla.Koteswara Rao third year Mechanical student completed certification course on “**IOT Using Raspberry PI**”, from Pantech e Learning online certification program.
- P.Krishnachaitanya Second year Mechanical student completed certification course on “**Build a Face Recognition Application using Python**”, from Guvi Tech.
- M.Sashank Second year Mechanical student completed certification course on “**Build a Face Recognition Application using Python**”, from Guvi Tech.
- Podila. Gopinadh third year Mechanical student completed certification course on “**HTML5 and CSS3**”, from Simpli Learn.
- P.Sai Srinivas Second year Mechanical student completed certification course on “**Build a Face Recognition Application using Python**”, from Guvi Tech.
- Shaik mahammadbilal third year mechanical student completed certification course on “**Introduction to Cyber Security**”, from Great learning online certification program.
- K PrudhviYashwanthReddy third year mechanical student completed certification course on “**Crash Course on Python**”, from Coursera online certification program.
- Shaik Sadhik Second year mechanical student completed certification course on “**National Engineering Olympiad 5.0**”, from NEO online certification program.
- Sadhe Narendra Babu third year mechanical student completed certification course on “**30 Days Machine Learning Master Class**”, from Pantech e learning online certification program.
- ShaikMahaboobSubani third year mechanical student completed certification course on “**30 Days Machine Learning Master Class**”, from Pantech e learning online certification program.
- Shaik sadhik second year mechanical student completed certification course on “**Introduction to Electro Magnetism**”, fromSkill link online certification program.
- D.Veeranji Reddy second year mechanical student completed certification course on “**5 Days EV Design Master Class**”, from SKILL-AP APSSDC online certification program.
- D.Veeranji Reddy second year mechanical student completed certification course on “**Introduction to Thermal Fluid Sciences**”, from SKILL-AP APSSDC online certification program

- K.Sasi Kumar second year mechanical student completed certification course on “**Introduction to Fluid Mechanics**”, from Skill link online certification program.
- K.Sasi Kumar second year mechanical student completed certification course on “**Introduction to Thermal Fluid Sciences**”, from Skill link online certification program.
- D Pardhu Ganesh second year mechanical student completed certification course on “**Introduction to Fluid Mechanics**”, from Skill link online certification program.
- D Pardhu Ganesh second year mechanical student completed certification course on “**Applied Strength Of Materials Using Ansys Work Bench**”, from Skill link online certification program.
- S.Ranendravamshi second year mechanical student completed certification course on “**Introduction to Fluid Mechanics**”, from Skill link online certification program.
- S.Ranendravamshi second year mechanical student completed certification course on “**Applied Strength Of Materials Using Ansys Work Bench**”, from Skill link online certification program.
- P.Purna Chandra Rao second year mechanical student completed certification course on “**Introduction to Fluid Mechanics**”, from Skill link online certification program.
- J.Nagendra babu third year mechanical student completed certification course on “**Introduction to Fluid Mecahnics**”, fromSkill link online certification program.
- Gangavarapusrichandrasekharthird year mechanical student completed certification course on “**Communication Skills**”, from TCS ION online certification program .
- Gangavarapusri Chandra sekharthird year mechanical student completed certification course on “**Culture and E-mail Writing**”, from TCS ION online certification program.
- Gangavarapusrichandrasekharthird year mechanical student completed certification course on “**Group Discussion**”, from TCS ION online certification program.
- P.Gopinadhthird year mechanical student completed certification course on “**Communication Skills**”, from TCS ION online certification program.

#### INDUSTRIAL VISITS:

- Students from third year Visited “**MahanandiPVC Pipes**”,Nakarikallu as a part of industrial visit on 28/09/2021.





- Students from final year Visited “**Mahanandi PVC Pipes**”, Narasaraopet as a part of industrial visit on 01/11/2021.



- Students from fsecond year Visited “**Mahanandi PVC Pipes**”, Narasaraopet as a part of industrial visit on 02/11/2021



- Students from second year Visited “**Sagar Cements Power Plant**”, Narasaraopet as a part of Industrial visit on 02/11/2021.



- Students from third year Visited “**Sagar Cements Power Plant**”, Narasaraopet as a part of industrial visit on 03/11/2021.



- Students from Second year Visited “**MittapalliSpinners Pvt limited**”, Narasaraopet as a part of Industrial visit on 07/12/2021.



- Students from third year Visited “**Mahanandi Pipes Pvt Limited**”, Santhinagar Narasaraopet as a part of Industrial visit on 13/12/2021.



- Students from Second year Visited “**Mahanandi Pipes Pvt Limited**”, Santhinagar, Narasaraopet as a part of Industrial visit on 13/12/2021.



- Students from Final year Visited “**Janatha Garage**”, Thadikonda, Guntur as a part of Industrial visit on 14/12/2021.



- Students from third year Visited “**Vallabha Feeds Pvt Ltd**”, Narasaraopet as a part of Industrial visit on 20/12/2021.





- Students from final year Visited “**Vallabha Feeds Pvt Ltd**”, Narasaraopet as a part of Industrial visit on 22/12/2021.



- Students from second year Visited “**Vallabha Feeds Pvt Ltd**”, Narasaraopet as a part of Industrial visit on 23/12/2021.



### CAMPUS PLACEMENTS:

25 students of Mechanical got selected in various companies listed below.

STUDENT NAME	COMPANY NAME	SALARY PACKAGE(Lakh per annum)
P.VAMSI KRISHNA KALLURI	SAVANTIS	2.25 LPA
M.GADA AVINASH	SAVANTIS	2.25 LPA
B.GOPI	WIPRO	3.5 LPA
CH. VENKATA LAKSHMI JANARDHAN	WIPRO	3.5 LPA
M.VENKATA SAI RAJESH	WIPRO	3.5 LPA
B.NARENDRA KISHORE REDDY	WIPRO	3.5 LPA
ANAND PAUL NAIK	WIPRO	3.5 LPA
SYED NURUDIN	INFOSYS	3,60,000. LPA
SAIPRAVEEN PAARI	TCS NINJA (NQT)	3,36,000 LPA
Mallikarjuna Rao Pallapu	TCS NINJA (NQT)	3,36,000 LPA
SHAIK BAJI	TCS NINJA (NQT)	3,36,000 LPA
BOINA RAVI	TCS NINJA (NQT)	3,36,000 LPA
SHAIK SHAHUL	TCS NINJA (NQT)	3,36,000 LPA
ASHOK KUMAR DANDU	TCS NINJA (NQT)	3,36,000 LPA
JAVVAJII BHANU PRASAD	TCS NINJA (NQT)	3,36,000 LPA
KOIT REDDY SYAMALAA	TCS NINJA (NQT)	3,36,000 LPA
V.RAMA LINGESWARARAO	TCS NINJA (NQT)	3,36,000 LPA
SHAIK JOHN SAIDA	TCS NINJA (NQT)	3,36,000 LPA
CHANDU CHITTIPROLU	TCS NINJA (NQT)	3,36,000 LPA
AKBAR JANI SHAIK	TCS NINJA (NQT)	3,36,000 LPA



VENKATA BHASKAR DARLA	TCS NINJA (NQT)	3,36,000 LPA
PRAVEEN KUMAR NETTEM	TCS NINJA (NQT)	3,36,000 LPA
VENKATESH KANAGANI	TCS NINJA (NQT)	3,36,000 LPA
BUSI VIJAY SAI KUMAR	CAPGEMINI	3,00,000 LPA

## ALUMNI VOICE:



- I am a student of NEC and would like to whole heartedly announce that, NEC has provided me a wonderful environment and opportunity to learn and grow myself academically. It was a great time, spent in NEC. The four years spent here was splendid and has helped me excel professionally as well as personally. Apart from academic, department offers various opportunity to enjoy our college days which was attracting us towards college many of the time. The relation between faculty and student is very cordial, which gave me an opportunity to excel further.

G.Chandra Sekhar Reddy (15471A03F2 -2015 Batch)

SOFTWARE ENGINEER, INFOSYS HYDERABAD.

## Student Voice:



- I feel very blessed to be a Mechanical engineering student in Narasaraopeta Engineering college. Our faculty who are inspiring the future Technocrats, they taught us technical strategies they mentor, guide us and teach classes in a practical manner and encouraged each and every student's interests. Our backbone is our HOD Dr.B.Venkatasiva sir who encourages student ideas and creates a platform to develop their ideas.

P.Raju IV-B.Tech, (19475A0311)

## Academic Toppers

The following students are toppers in the end examinations in their respective classes



**"In A Gentle Way, You Can Shake The World." Mahatma Gandhi**

