Edition V, Volume II 2021-22

Mechanical Engineering E-Magazine (LBRCE)











MECHIPULSE (OCT-BEC 2021)



DEPARTMENT OF MECHANICAL ENGINEERING

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME) under Tier - I Approved by AICTE and Permanently Affiliated to JNTUK, Kakinada

Mechanical Engineering E-Magazine (LBRCE)

MESSAGE FROM HEAD OF THE DEPARTMENT

I am very happy to inform you that the department of mechanical engineering is bringing MECH PULSE-an e-magazine its edition V and volume II. The department of mechanical engineering is Accredited by National Board of Accreditation (NBA) under Tier-I and is started in the year 1998 with an intake of 60 students. At present the department is offering B.Tech Mechanical Engineering with an intake of 120 students and M.Tech – Thermal Engineering with an intake of 18 students. The department has thirteen state of art laboratories worth of 2.8 crores, with advanced computing facilities, software and research equipment. Advanced Research Laboratories in the area of Cognitive Science, Material Testing, Tribology and Thermal Engineering are available. Sophisticated ANSYS Skill Development Centre with 110 users of ANSYS 18.1 and Dassult 3D Experience centre (in association with APSSDC) is available. The department has 34 faculty members with 9 Doctoral degrees. Thirteen faculty are actively pursuing for their Ph.D in various universities and nine research scholars are working for their doctoral under the department faculty. The department faculty constantly upgrade their knowledge in the area of their domain by attending various Faculty Development Programs, workshops, seminars etc. The faculty are actively engaged in their research work and are active in publishing papers in journals and conferences.

VISION OF THE DEPARTMENT

➤ To impart knowledge in Mechanical Engineering with global perspectives for the graduates to serve the society and industry.

MISSION OF THE DEPARTMENT

- ➤ To enable the graduates technically sound with the state- of- the —art curriculum and innovative teaching methods
- To provide training programs that bridge the gap between academia and industry
- ➤ To create a conducive environment and facilities to improve overall personality development of the graduates
- > To make the graduates aware of role and responsibilities of an engineer in society.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: To build a professional career and pursue higher studies with sound knowledge in Mathematics, Science and Mechanical Engineering.

PEO2: To inculcate strong ethical values and leadership qualities for graduates to become successful in multidisciplinary activities.

PEO3: To develop inquisitiveness towards good communication and lifelong learning.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

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

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.

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.

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.

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

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.

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.

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

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

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.

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.

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.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: To apply the principles of thermal sciences to design and develop various thermal systems.

PSO2: To apply the principles of manufacturing technology, scientific management towards improvement of quality and optimization of engineering systems in the design, analysis and manufacturability of products.

PSO3: To apply the basic principles of mechanical engineering design for evaluation of performance of various systems relating to transmission of motion and power, conservation of energy and other process equipment.

ONGOING RESEARCH PROJECTS

S.No.	Name of the Faculty	Title of the Project	Funding Agency	Amount Sanctioned	Sanctioned Year
1.	Dr.N.Sunil Naik	Evaluation of engine parameters affecting the performance of enzymatic transesterification process using test fuel blends	DST/SERB/EEQ	22,81,000	2019
2.	Dr.P.Vijaya Kumar	Prerana scheme	AICTE	4,80,000	2019

PUBLICATIONS BY FACULTY

A: Journal Publications

- Multi objective optimiztion of process parameters for powder mixed electrical discharge machining of Inconel X-750 alloy using Taguchi -TOPSIS approach, Shaik Khadar Basha, M.V.Jagannadha Raju, Murahari Kolli, Journal of Mechanical Engineering, Oct-2021, DoI: 10.2478/scjme-2021-0001, ISSN: 2450-5471.
- Electrical Discharge Machining of SIC Reinforced 6061 Aluminium Alloy Surface Composite Fabrication by Friction Stir Processing, Murahari Kolli, Devaraju Aruri, Saikumar Gadkary, Satyanarayana Kosaraju, E3SWeb of Conferences 309, 01044, doi.org/10.1051/e3sconf/202130901044, Oct-2021, ISSN: 2267-1242.
- Impact of Graphene Nanoparticles Addition to Jatropha Biodiesel Blend on the Performance and Emission Characteristics of a Diesel Engine, **D. Malikarjuna Rao**,

- Venkatasomi Reddy Janga, **V. Dhanaraju**, Syed Arifa, Lecture Notes in Mechanical Engineering, DoI: 10.1007/978-981-16-4222-7_90, Oct- 2021, ISSN: 2195-4364.
- Development of empirical correlations for density and viscosity estimation of ternary biodiesel blends, M.A.Mujtaba, M.A.Kalam, H.H.Masjuki, Luqman Razzaq, HarisMehmood Khan, Manzoore ElahiM. Soudagar, M.Gul, Waqar Ahmed, V. DhanaRaju, Ravinder Kumar, Hwai Chyuan Ong, Renewable Energy, doi.org/10.1016/j.renene.2021.07.121, Nov- 2021, ISSN: 0960-1481
- Computational Analysis of Conventional and Helical Finned Shell and Tube Heat Exchanger Using ANSYS-CFD, Ravindra Kumar Pasupuleti, Manindra Bedhapudi, Subba Reddy Jonnala, Appa Rao Kandimalla, International Journal of Heat and Technology, Dec- 2021, doi.org/10.18280/ijht.390608, ISSN: 0392-8764.
- Effect of addition of bio-additive clove oil to ternary fuel blends (Diesel-Biodiesel-Ethanol) on compression ignition engine, Jayashri N. Nair, Thokchom Subhaschandra Singh, Vallapudi Dhana Raju, Journal of Physics: Conference Series, DoI: 10.1088/1742-6596/2070/1/012212, Dec-2021, ISSN: 1742-6596.
- Sound absorption characteristics of DL-MPP with non-circular perforations using electro-acoustical model, M.B.S. Sreekar Reddy, R.Kiran Kumar, Materials Today Proceedings, DoI: 10.1016/j.matpr.2021.12.069, Dec-2021, ISSN: 2214-7853.

BOOKS/CHAPTERS PUBLISHED

 B.Ashok, A.Naresh Kumar, Ashwin Jacob, R.Vignesh Emission Formation in IC Engines NOx Emission Control Technologies in Stationary and Automotive Internal Combustion Engine approaches Toward NOx Free Automobiles Elsevier Publications Year of publication November 2021 with ISBN 978-0-12-823955-1.https://www.elsevier.com/books/nox-emission-control-technologies-in-stationary-and-automotive-internal-combustion-engines/ ashok/ 978-0-12-823955-1.

PATENTS PUBLISHED

Title of the Patent	Name of the Inventors	Patent number	Agency	Date of Published
Design and Fabrication of Treadmill bicycle	Dr.V.Dhana Raju Dr.M B S Sreekara Reddy Mr.J.Subba Reddy Dr.S.Pichi Reddy Dr.J.N.Nair Dr.HarishVenu Mr.S.Rami Reddy Mr. K.V.Viswanadh Dr.K.Bala Prasad Mr.R.Anjaneyulu Naik	2.02141E+1 1	IP India	24.11.2021
Adjustable size door	Donthamsetty Sunil, Ranganath Lolla, Bathula Venkata Siva, M.B.S.Sreekar Reddy, Anna Eswara Kumar	351102-001	IP India	26.11.2021
Extendable size name plate	Bathula Venkata Siva, RanganathLolla, M.B.S.Sreekar Reddy, Donthamsetty Sunil, Anna Eswara Kumar	351108-001	IP India	26.11.2021
Door with builtin ladder	Ranganath Lolla, Donthamsetty Sunil, M.B.S.Sreekar Reddy, BathulaVenkata Siva, Anna Eswara Kumar	351113-001	IP India	26.11.2021
Size adjustable feeding bottle	Ranganath Lolla, M.B.S.Sreekar Reddy, Donthamsetty Sunil, Bathula Venkata Siva, Anna Eswara Kumar	351116-001	IP India	26.11.2021
Electronic alpha numeric slate	Ranganath Lolla, M.B.S.Sreekar Reddy, Donthamsetty Sunil, Bathula Venkata Siva, Anna Eswara Kumar	351119-001	IP India	26.11.2021

Cot for burn victims	M.B.S.Sreekar Reddy, Donthamsetty Sunil, Ranganath Lolla, Bathula Venkata Siva, Anna Eswara Kumar	351106-001	IP India	03.12.2021
Multi-utility pen stand	Ranganath Lolla, M.B.S.Sreekar Reddy, Donthamsetty Sunil, Bathula Venkata Siva, Anna Eswara Kumar	351112-001	IP India	03.12.2021
Electrical socket with mobile phone holder	Ranganath Lolla, M.B.S.Sreekar Reddy, Donthamsetty Sunil, Bathula Venkata Siva, Anna Eswara Kumar	351114-001	IP India	03.12.2021
Mobile phone holding stand	Ranganath Lolla, M.B.S.Sreekar Reddy, Donthamsetty Sunil, BathulaVenkata Siva, Anna Eswara Kumar	351117-001	IP India	03.12.2021
Carpet for gas stove	Ranganath Lolla, M.B.S.Sreekar Reddy, Donthamsetty Sunil, Bathula Venkata Siva, Anna Eswara Kumar	351118-001	IP India	03.12.2021
Utensil stand with waste collector	Ranganath Lolla, M.B.S.Sreekar Reddy, Donthamsetty Sunil, BathulaVenkata Siva, Anna Eswara Kumar	351100-001	IP India	10.12.2021

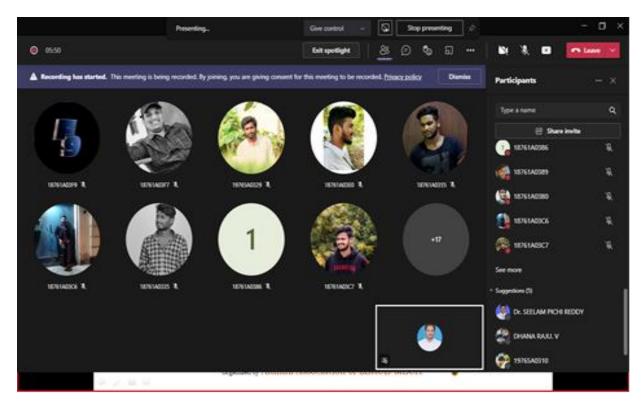
EVENTS ORGANIZED BY THE DEPARTMENT

ALUMNI INTERACTIONS

• The Department of Mechanical Engineering, organized a Online Aumni Interaction on "Career Guidance for Higher Education in Abroad" on 12-10-2021 by Mr. Penkala Kamal (15761A03A2), Student at Lakehead University, Canada. Dr.V.Dhana Raju and Mr. Mallikarjuna Rao Dandu coordinated the event.



Mr. Penkala Kamal (15761A03A2) Student at Lakehead University, Canada presentation on career guidance



Mr. Penkala Kamal (15761A03A2) Student at Lakehead University, Canada interacted with final year Mechanical Engineering students

• The Department of Mechanical Engineering, organized a Aumni Interaction on "Awareness program on ISHRAE" on 21-10-2021 by Mr. Marrapu Lokesh (13761A0333) MBA Student at IIM Lucknow. Dr.V.Dhana Raju and Mr. Mallikarjuna Rao Dandu coordinated the event.



Mr.M.Lokesh alumni interaction on 21.10.2021



Mr.M.Lokesh (13761A0333) alumni interacted to final year students

INDUSTRIAL VISITS

• The Department of Mechanical Engineering, organized a Industrial visit to "Central Institute of Plastics Engineering and Technology (CIPET), Surampalli" for V Semester students on 06-10-2021. Dr.K.Murahari & Mr.Dyva Issac Prem Kumar coordinated the event.



Students observing the injection molding machine



Students group photo in front of Main Building at CIPET, Surampall

• The Department of Mechanical Engineering, organized a Industrial visit to "Central Institute of Plastics Engineering and Technology (CIPET), Surampalli" for V Semester B & C section students on 07-10-2021. Mr.V.Sankara Rao & Mr.D.Mallikarjuna Rao coordinated the event.



CIPET faculty giving orientation class to students at CIPET Seminar hall



Group Photo of Students with CIPET Faculty at CIPET Seminar hall

FRESHERS DAY CELEBRATIONS

• Dept. of Mechanical Engineering organized Freshers day celebrations for first year students on 31.12.2021 in drawing hall room no 3S09.



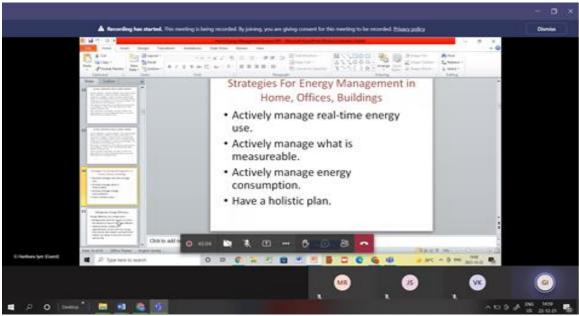
Addressing by Dr.P.Ravindra Kumar, Professor



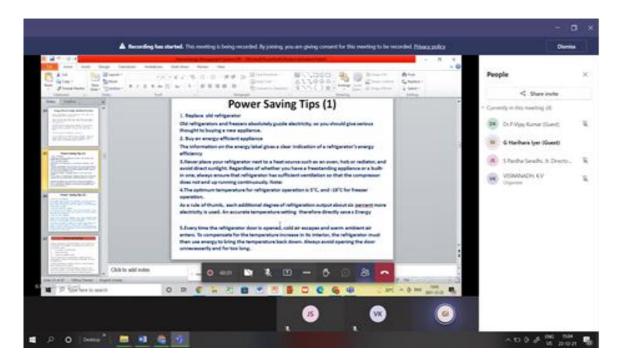
Student interaction in freshers day celebrations

GUEST LECTURE

• The Department of Mechanical Engineering, organized a online guest lecture on "ENERGY CONSERVATION METHODS" by Mr.K.R.Ramana and Mr.G.harihara Iyer PCRA Faculty, SRO, Visakhapatnam for III & IV year students on 25-10-2021. Dr. P.Vijay Kumar, Professor, Mr. K.V.Viswanadh, Sr.Asst.Professor coordinated the event.

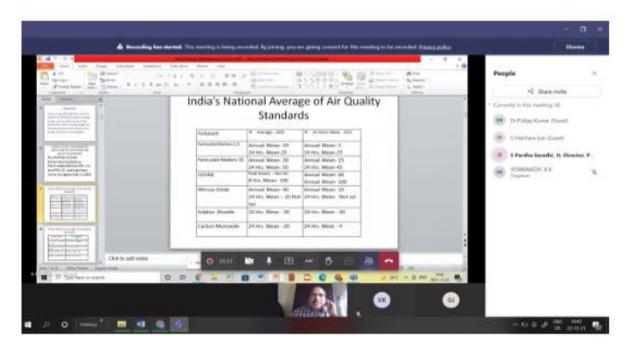


Strategies for energy management in home, offices, buildings

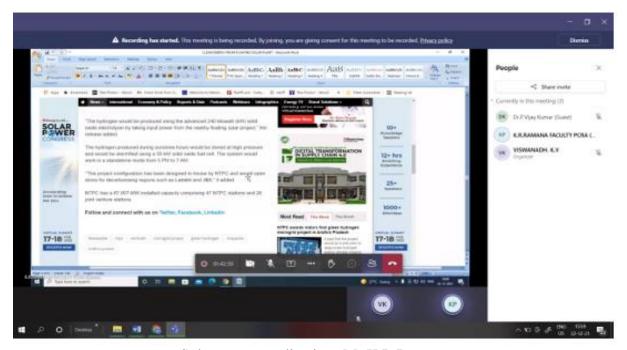


Power saving tips by resource person

• The Department of Mechanical Engineering, organized a online guest lecture on "HOME ENERGY MANAGEMENT IN THE CURRENT PANDEMIC SITUATION" and "FLOATING SOLAR POWER PLANT" by Mr.K.R.Ramana and Mr.G.harihara Iyer PCRA Faculty, SRO, Visakhapatnam for I & II year students on 22-12-2021. Dr. P.Vijay Kumar, Professor, Mr. K.V.Viswanadh, Sr.Asst.Professor coordinated the event.



Online guest lecture by Mr.G.harihara Iyer



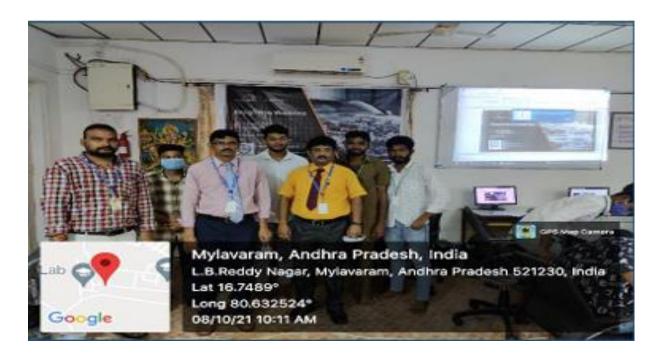
Solar power applications Mr.K.R.Ramana

WORKSHOPS

• The Department of Mechanical Engineering, organized a three day workshop on "India Design Week 2022 – Design Now Workshop" by ICT Academy-India for III year students on 08-10-2021, 01.11.2021, 27.12.2021. Mr. A. Nageswara Rao, Mr. Dyva Isac Prem kumar, Mr. K Karthik coordinated the event.



III Year students in design now workshop



Dr.S.Pichi Reddy, Professor & HoD with student participants

FACULTY ACHIEVEMENTS

- **Dr.K.Murahari** appointed as **Editorial Board Member** for Journal of Modern Industry and Manufacturing from **Sep 2021 to Aug 2024.**
- **Dr.M.B.S.Sreekara Reddy** received award from **Indian Book of Records** for registering 20 IPRs in a single day.
- **Mr.J.Subba Reddy** got ATAL FDP on "Robotics and Artificial Intelligence" scheduled from 07th to 11th Feb 2022 by AICTE, New Delhi
- **Dr.P.Ravindra Kumar** recognized as **NPTEL EVANGELIST** and **NPTEL BELIEVER** during July Dec 2021.

STAFF COLLOQUIUMS:

Name of the Faculty	Name of the Topic	Date
Mr.S.Srinivasa Reddy	Advanced techniques in metal cutting	07.10.2021
Dr.V.Dhana Raju	Renewable energy sources for future power demands	20.10.2021
Dr.K.Murahari	Introduction to additive manufacturing in bio medical appilications	10.11.2021
Mr.B.Chaitanya	Introduction to Design of Experiments	27.11.2021
Dr.M.B.S.Sreekara Reddy	NBA- A over view, objectives, accreditation process, parameters	11.12.2021
Mr.B.Sudheer Kumar	Dynamic mechanical properties of FeSi alloy particles filled magnetorheological elastomers	22.12.2021

FDP's/STTP's/STC's/WORKSHOP's ATTENDED BY FACULTY

- Mr. J. Subba Reddy has participated in a Faculty Development Program (FDP) on "Innovations in Applied Research for Science and Technology" organized by KDK College of Engineering, Nagpur in association with Indian Association for Radiation Protection (IARP), Luminescence Society of India (LSI), and Society for Technologically Advanced Material of India (STAMI) from 11th to 18th October 2021.
- Dr. V. Dhana Raju has attended an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" at V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- Dr. M. B. S. Sreekara Reddy has participated in an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" organized by V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.

- Mr. B. Sudheer Kumar has attended an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" at V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- Mr. Ch. Siva Sankara Babu has participated in an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" conducted by V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- Mr. A. Naresh Kumar has successfully completed an 8-week FDP on "Technologies for Clean and Renewable Energy Production" organized by IIT Roorkee from July to September 2021.
- Mr. S. Rami Reddy has attended an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" at V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- Mr. K. Lakshmi Prasad has participated in an 8-week FDP on "Technologies for Clean and Renewable Energy Production" organized by IIT Roorkee from July to September 2021.
- Mr. Mallikarjuna Rao Dandu has attended an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" at V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- Mr. V. Venkatrami Reddy has participated in an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" organized by V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- An 8-week FDP on "Robotics" was attended by a faculty member at IIT Madras, Chennai from July to September 2021.
- Mr. K. Karthik has participated in an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" organized by V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- Ms. P. Mounika has attended an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" at V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- Mr. A. J. S. A. V. Vara Prasad has successfully participated in an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" conducted by V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- Mr. M. Oliva has attended an FDP on "Robotic Systems: Trends, Opportunities, and Research Directions" organized by V R Siddhartha Engineering College, Vijayawada from 28th to 30th October 2021.
- A faculty member has completed a 6-day FDP on "Deep Learning: Perspectives, Trends, and Research Prospects" at G. Pulla Reddy Engineering College, Kurnool from 25th to 30th October 2021.
- Dr. P. Ravindra Kumar has attended a 30-day FDP on "Renewable Energy System Design" organized by Pantech e-Learning Pvt. Ltd in association with APSSDC from 18th October to 15th November 2021.

- Dr. P. Ravindra Kumar has also completed a 30-day FDP on "30 Days Renewable Energy Master Class" conducted by APSSDC and Pantech e-Learning Solutions, Chennai from 17th October to 16th November 2021.
- Mr. J. Subba Reddy has participated in an FDP on "Electric Transportation Infrastructure for e-Mobility in India (Thrust Area: Advanced FDP on Electric Vehicles)" organized by NIT Warangal from 8th to 12th November 2021.
- Dr. V. Dhana Raju has attended an FDP on "Recent Trends, Opportunities, Challenges in Tribology and Surface Coatings" conducted by V. R. Siddhartha Engineering College, Vijayawada from 16th to 18th November 2021.
- Dr. M. B. S. Sreekara Reddy has successfully completed a 6-day FDP on "Additive Manufacturing: Present & Future Trends" at Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad from 1st to 6th November 2021.
- Mr. B. Sudheer Kumar has attended an FDP on "Additive Manufacturing: Present & Future Trends" at Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad from 1st to 6th November 2021.
- Mr. K. V. Viswanadh has participated in an FDP on "Additive Manufacturing: Present & Future Trends" at Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad from 1st to 6th November 2021.
- Mr. A. Naresh Kumar has attended an FDP on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad from 1st to 6th November 2021.
- Dr. P. Ravindra Kumar has participated in a 30-day Renewable Energy Master Class organized by APSSDC and Pantech e-Learning Solutions, Chennai, from 17th October 2021 to 16th November 2021.
- Mr. J. Subba Reddy has attended a faculty development program on "Electric Transportation Infrastructure for e-Mobility in India (Thrust Area: Advanced FDP on Electric Vehicles)" organized by NIT Warangal, Warangal, from 8th to 12th November 2021.
- Dr. V. Dhana Raju has participated in a faculty development program on "Recent Trends, Opportunities, and Challenges in Tribology and Surface Coatings" organized by V.R. Siddhartha Engineering College, Vijayawada, from 16th to 18th November 2021.
- Dr. M.B.S. Sreekara Reddy has attended a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. B. Sudheer Kumar has participated in the faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. K.V. Viswanadh has also attended the faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao

- Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. A. Naresh Kumar has participated in a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021. He has also attended a course on "Technologies for Clean and Renewable Energy Production" conducted by IIT Madras, Chennai, from July to September 2021.
- Mr. S. Rami Reddy has attended a faculty development program on "Recent Trends, Opportunities, and Challenges in Tribology and Surface Coatings" organized by V.R. Siddhartha Engineering College, Vijayawada, from 16th to 18th November 2021.
- Mr. V. Sankararao has participated in a faculty development program on "Recent Trends, Opportunities, and Challenges in Tribology and Surface Coatings" organized by V.R. Siddhartha Engineering College, Vijayawada, from 16th to 18th November 2021.
- Ms. B. Udaya Lakshmi has attended a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. Mallikarjuna Rao Dandu has participated in a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Ms. B. Kamala Priya has attended a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. A. Dhanunjay Kumar has participated in a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. V. Venkatrami Reddy has attended a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. K. Venkateswara Reddy has participated in faculty development programs on "Fundamentals of Artificial Intelligence," "Rapid Manufacturing," and "Introduction to Composites" organized by IIT Madras, Chennai, each spanning one and a half weeks.
- Mr. B. Dyva Isac Prem Kumar has attended a faculty development program on "Recent Trends, Opportunities, and Challenges in Tribology and Surface Coatings" organized by V.R. Siddhartha Engineering College, Vijayawada, from 16th to 18th November 2021.

- Mr. K. Sai Babu has participated in a faculty development program on "Recent Trends, Opportunities, and Challenges in Tribology and Surface Coatings" organized by V.R. Siddhartha Engineering College, Vijayawada, from 16th to 18th November 2021.
- Mr. S. Umamaheswara Reddy has attended a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. K. Karthik has participated in a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Ms. P. Mounika has attended a faculty development program on "Additive Manufacturing: Present & Future Trends" organized by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 1st to 6th November 2021.
- Mr. A. Pratyush has participated in a faculty development program on "Recent Trends, Opportunities, and Challenges in Tribology and Surface Coatings" organized by V.R. Siddhartha Engineering College, Vijayawada, from 16th to 18th November 2021.
- Ms. M. Oliva has attended a faculty development program on "Recent Trends, Opportunities, and Challenges in Tribology and Surface Coatings" organized by V.R. Siddhartha Engineering College, Vijayawada, from 16th to 18th November 2021.
- Dr. P. Ravindra Kumar has participated in a Faculty Development Program (FDP) on "Design Thinking: From Insights to Viability for Engineers" organized by LBRCE, Mylavaram, from 6th to 10th December 2021.
- Dr. P. Vijay Kumar has attended an FDP on "Emerging Trends in Thermal Engineering" at PVPSIT, Kanuru, from 27th to 31st December 2021.
- Dr. K. Murahari has also participated in the FDP on "Design Thinking: From Insights to Viability for Engineers" at LBRCE, Mylavaram, from 6th to 10th December 2021.
- Mr. J. Subba Reddy has attended an FDP on "Cyber Forensic and Information Security" at NIT Jalandhar from 16th to 20th December 2021.
- Dr. V. Dhana Raju has taken part in an FDP on "Recent Advancements and Research Opportunities in the Energy Sector" at Adhithya Engineering College, Kakinada, from 29th November to 3rd December 2021.
- Ms. B. Kamala Priya, Mr. K. Srinivasa Rao, and Mr. M. Oliva have participated in an FDP on "Emerging Trends in Thermal Engineering" at PVPSIT, Kanuru, from 27th to 31st December 2021.
- Mr. K. Venkateswara Reddy has attended an FDP on "Robotics" at Sri Venkateswara University College of Engineering, Tirupati, from 20th to 24th December 2021.

- Mr. K. Srinivasa Rao has participated in a faculty development program on "Emerging Trends in Thermal Engineering" organized by PVPSIT, Kanuru, from 27th to 31st December 2021.
- Mr. M. Oliva has also attended the faculty development program on "Emerging Trends in Thermal Engineering" organized by PVPSIT, Kanuru, from 27th to 31st December 2021.

WEBINARS ATTENDED BY FACULTY

- **Mr. Jonnala Subba Reddy** has participated in a faculty development program on "A Strategic Itinerary for Interpersonal Communication" organized by Kings College of Engineering, Punlakulam, on 23rd October 2021.
- Ms. B. Kamala Priya has attended a faculty development program on "Intellectual Property Rights Patents & Design Process" organized by Stanley College of Engineering & Technology for Women, Hyderabad, on 14th August 2021.
- Mr. K. Sai Babu has participated in a faculty development program on "Entrepreneurship and Start-Up" organized by Lakireddy Bali Reddy College of Engineering, Mylavaram, on 28th October 2021.
- Mr. A. Pratyush has attended a faculty development program on "Entrepreneurship and Start-Up" organized by Lakireddy Bali Reddy College of Engineering, Mylavaram, on 28th October 2021.
- **Mr. Jonnala Subba** Reddy has also participated in a faculty development program on "How to Write a Quality Technical Paper for IEEE" organized by IEEE Section, EBSCO & Lakireddy Bali Reddy College of Engineering, Mylavaram, on 12th November 2021.
- Mr. K. Srinivasa Rao has attended a faculty development program on "Utilization of Solid Industrial Wastes in the Manufacture of Building Materials" organized by Bhubaneswar Institute of Technology, Odisha, on 20th November 2021.
- **Mr. Jonnala Subba Reddy** has also participated in a faculty development program on "How to Formulate a Research Problem" organized by Research Graduate, BPMCC, Chennai, on 25th December 2021.

NPTEL ONLINE CERTIFICATIONS

• The following are the details of faculty completed the NPTEL online courses during 2021-22.

S. No	Name of the Faculty	Course Name	Grade
1.	Mr. Veduru Venkatrami Reddy	Robotics-Online	Successfully completed
2.	Mr. Seelam Uma Maheswara Reddy	Power Plant Engineering-Online	Successfully completed

3.		Fluid dynamics and turbomachines-Online	Successfully completed
4.		Ecology and Environment -online	Successfully completed
5.	Dr. P Ravindra Kumar	Energy conservation and waste heat recovery - online	Elite+Silver
6.		Applied Thermodynamics For Engineers - online	Elite
7.	Mr. SankararaoVinjavarapu	Fundamentals of Additive Manufacturing Technologies - online	Successfully completed
8.	Mr. Seelam RamiReddy	Engineering Drawing and Computer Graphics - online	Successfully completed
9.	Mr. A NageswaraRao	Ergonomics Workplace Analysis - online	Successfully completed
10.	Mr. ChaitanyaBhavaraju	Ergonomics Workplace Analysis - online	Successfully completed
11.	Mr. Jonnala SubbaReddy	Product Design and Development-Online	Elite+Silver
12.		Stress Management-Online	Elite
13.	Mr. MallikarjunaRao Dandu	Refrigeration and air- conditioning-Online	Elite+Silver
14.		Product Design and Development-Online	Elite+Silver
15.		Engineering Drawing and Computer Graphics - online	Elite+Silver
16.	Mr. Kolagotla Venkateswarareddy	Rapid Manufacturing -online	Elite+Silver
17.		Introduction To Composites - online	Elite
18.		Fundamentals Of Artificial Intelligence - online	Elite
19.	Mr. Kothari Venkata Viswanadh	Engineering Drawing and Computer Graphics - online	Elite+Silver

20.	Mr. Akula NareshKumar	Technologies For Clean And Renewable Energy Production- Online	Elite
21.	Dr. Seelam PichiReddy	Engineering Metrology -online	Elite
22.	Mr. Alapati J S A Veeranjaneya VaraPrasad	Biomechanics of Joints and Orthopaedic Implants - online	Elite
23.	Mr. Karnati Srinivasa Rao	Fluid Machines - online	Elite

STUDENT ACHIVEMENTS

The following are the details of students completed the NPTEL online courses during 2021-22.

S. No.	Name of the student	Roll No.	Course Name	Garde
1.	Kundrapu Venkatesh	20765A0337	The Joy of Computing using Python - online	Elite
2.	Vipparla Maneesh	20765A0315	The Joy of Computing using Python - online	Elite

STUDENTS JOINED IN HIGHER STUDIES

Name of the student	Roll No	Name of Course	Institute, Place
Nookalapati Sai Aditya	15761A0340	MS	Western Michigan University, USA

Students Qualified in GRE/CAT/IELTS etc

Name of the student	Roll No	Qualified Exam	Qualified exam Hall Ticket No.	Score / Rank
Siva Rama Krishna Bonthu	17761A0308	IELTS	125134	6
Kasagani Durga Hemanth	17761A0320	GRE	9976228	326
Nallamothu Sai	17761A0391	TOEFL	4528809215068369	93
B Balu Manohar		GRE	31508	310
Kumar	16761A03C3			

Tumu Bhanu Prakash	13761A0354	GRE	9999017	327
Tumu Bhanu Prakash	13761A0354	TOEFL	4576610215079756	99
Dwarapudi Kalyan	18765A0306	PGECET	7494170309	44/263
Bandaru Gopi	18765A0316	PGECET	7494640083	42/349

NSS

• The following are the list of students participated in Funeral Ceremony of Lakireddy Bali Reddy, Chairman from 17.11.2021 to 18.11.2021 Velvadam.

S. No.	Name of the student
1.	B Vamsi Satya
2.	B Veera Subash
3.	Ch Venkata Sai Ram
4.	G Nani
5.	J Rajesh
6.	K Vishnu Vardhan
7.	K V Balaji Yaswanth
8.	K Sasi Kanth
9.	K Siva Durga Rao
10.	M Sudheer
11.	M Pavan Kumar
12.	P Chandra sekhar
13.	Sarath Bodasingu
14.	Sk Abdul Rahman
15.	S Sai Kiriti
16.	V Sasi Kumar
17.	V M S Sekhar Reddy
18.	V Chandra Sekhar Reddy
19.	Y Sasi Mani Kanta
20.	A Mubeen
21.	G Anil
22.	P Kumar
23.	M V S K Reddy

• The following are the list of students participated in Swachh Bharath program on 30.10.2021 in LBRCE, Mylavaram.

S. No.	Name of the student
1.	Alavala Navya Reddy
2.	Asif Baig
3.	Avula Venkat
4.	Dokku Gopi
5.	Gnana Amitesh Pothuri
6.	Jambavi Teja
7.	Jillepalli Mahesh Babu
8.	Kannuru Praveen
9.	Karedla Venkata Srinivas Rao
10.	Kota Akanksha
11.	Morempudi Charan Kumar
12.	Mukku Jagan Sankar Rao
13.	Nidumolu Nikhil
14.	Pandula Jagadeesh Gopi
15.	Panugalla Priyanka
16.	Parasa Siva
17.	Pathakamudi Sai Krishna
18.	Peddiboina Pavan Kumar
19.	Penumuchu Prasanna Kumar
20.	Prathipati Sai Susheel
21.	Rachamanti Eswar Manikanta
22.	Shaik Faraz Hussain
23.	Shaik Saifuddin
24.	Sureddi Sri Sai Kowtilya
25.	Tummuru Chennareddy
26.	Yatham Chaitanya Rama Kotesh
27.	Molli Saibabu
28.	Bubathula Nagendrakumar
29.	Chintada Rakesh
30.	Dasari Prudhviraj
31.	Gavvalaraju Sai Prasanth
32.	Gera Anil Kumar
33.	Gowdiperi Vinod Kumar
34.	Kona Prudhvi
35.	Potumarthi Naresh
36.	Ramisetty Naveen
37.	Reddipalli Sai Abhiram
38.	Somanapalli Mahesh
39.	Yerrabadi Ravivarma

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