

NEWS LETTER

A Half- Yearly



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PVPSIT

Department of Mechanical Engineering

NEWS LETTER

January, 2022

About the Department

The Department of Mechanical Engineering has been in existence ever since the college started in year 1998. Department is affiliated to JNTU since 1998. B. Tech. Program is accredited by NBA-AICTE in May 2007 for 3 years and provisionally accredited for 2 years in June 2012 and is certified by ISO 9001:2015 certification. Once again it is provisionally accredited for 3 years under OBE in the year 2016 and got 4th time accreditation under OBE Tier-1 in 2019 for 3 academic years.

The Department is proud to have a vibrant student fraternity who pursue Undergraduate and Post-graduate courses. The annual intake of students is 120 in the undergraduate course and 6 in Post graduate course.

Total area of the Department is 5169 sq.mts. The Department has facilities in terms of faculty, infrastructure and equipment. The Department has a team of diversely qualified faculty including 5 Professors, 5 Associate Professors and 24 Assistant Professors, who aims at delivering quality lectures that blends with their rich research experience. The total worth of the equipment available in the Department is Rs. 2.67crore.

Numerous research papers have been published in National and International Journals and Conferences. The Department arranges guest lectures by eminent professors from India and abroad, scientists from research organizations and experts from industry to bridge the gap between academics and industry. Faculty members are encouraged to improve their academic qualification and to gain experience by attending FDPs, workshops, conferences etc. They are also encouraged to present research papers at workshops and conferences, and to participate in co-curricular and extracurricular activities.

The Department promotes active industry-institute collaboration by organizing workshops and by taking part in sponsored research projects and consultancy services. Visits to the industries for faculty and students are frequently arranged to enhance the practical exposure with the real corporate world. Department also organizes programmes like Alumni interaction sessions with current students and make them familiar with specific market requirements and demands.

College Vision

To provide rich ambience for Academic and Professional Excellence, Research, Employability skills, Entrepreneurship and Social responsibility.

College Mission

To empower the students with Technical knowledge, Awareness of up-to-date technical trends, Inclination for research in the areas of human needs, Capacity building for Employment / Entrepreneurship, Application of technology for societal needs.

Department Vision

To enhance the capabilities of students and mould them into innovative, employable, entrepreneurial, socially responsible graduates successful in advanced fields of research.

Department Mission

To impart quality education, ethical values, social responsibility, employability, research and entrepreneurial skills.

Programme Outcomes (POs)

PO - 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO - 2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO - 3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO - 4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

PO - 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO - 6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice

PO-7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO -8: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO - 9: **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO - 10: **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

PO - 11: **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO - 12: **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

PSO-1: Apply Engineering Principles for design, manufacturing and maintenance of mechanical systems

PSO-2: Execute multi-disciplinary projects and exhibit managerial, leadership and entrepreneurial skills.

Programme Educational Objectives (PEOs)

PEO-I: Progress in wide range of mechanical engineering fields with solid foundation in physical and engineering sciences.

PEO-II: Contribute as members of multi-disciplinary engineering teams, solve mechanical engineering and allied field problems resulting in significant societal development.

PEO-III: Achieve goals by pursuing higher studies / research, become entrepreneurs.

PEO-IV: Become responsible citizens by undertaking active role in their community.

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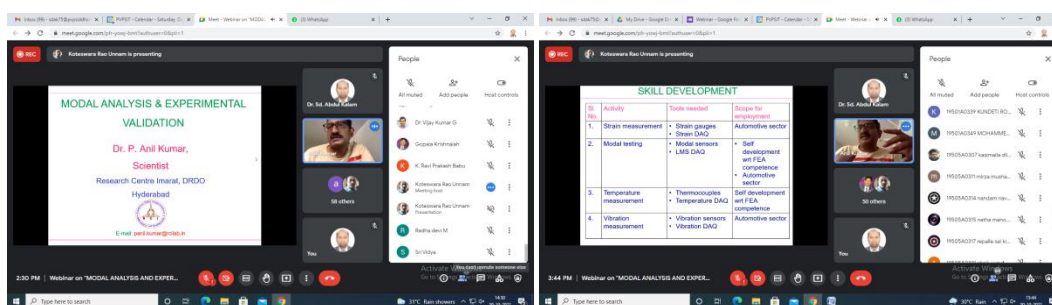
1. Workshops/Seminars/Guest Lectures/Training Programs/Symposiums organized:

The department of Mechanical Engineering organized ---

- i. A Seminar on “Dynamic Situation-Need of the hour, a healthy mind” as a part of ISHRAE societal activities by Mrs. Sandhya Chandrasekhar, Wellness Consultant and life coach on 16.09.2021 for staff.



- ii. A Webinar on “Modal Analysis and Experimental Validation” by Dr. P. Anil Kumar, Scientist F, Research Centre Imarat, Defence R&D Organization (DRDO), Hyderabad on 30.10.2021 for III & IV -B. Tech. ME students and staff.



- iii. A Guest Lecture on “Modern Perspectives in Mechanics” by Dr. Prasad Patnaik B S V, Professor, Department of Applied Mechanics, IIT Madras, Chennai on 30.10.2021 for II - B. Tech. ME students and staff.



- iv. A Webinar on “Career Opportunities” by Dr. P. Muralidhar, Head- Research & Publications, National Institute of Construction Management and Research (NICMAR), Hyderabad on 16.11.2021 for IV -B. Tech. ME students.

2. Papers presented in Seminars/Conferences/Symposiums by the faculty:

- i. Dr. Sayyad Abdul Kalam has participated and presented a paper entitled “Damage behaviour and Failure Response of Aircraft Composite Structure by Soft Body Impact” in international conference on SMART AND SUSTAINABLE DEVELOPMENTS IN MATERIALS, MANUFACTURING AND ENERGY ENGINEERING (SME 2021) organized by the Department of Mechanical Engineering, NMAMIT, Nitte, Karnataka from 19 -20 NOVEMBER, 2021.

3. Workshops/ Seminars/STTP/Conferences/Faculty Development Programmes/Awareness programmes attended by the faculty:

a) Seminars/Webinars:

- i. K.I.V.Vandana has participated in One Day Webinar on “Analytics for Business Excellence” at P.V.P.Siddhartha Institute of Technology on 6th July, 2021.
- ii. M. Somaiah Chowdary has attended a webinar on “high strain rate behavior of Polymer Matrix Composites (PMCs): A New Paradigm of Materials Properties Measurement & Prediction by Research Webinars on 7th July, 2021.

b) Workshops:

- iii. K.Venkata Rao, Ch.Lakshmi Kanth has participated in the Five Days e-workshop on Latex at Gandhi Institute of Technology and Management (GITAM), Bengaluru from 5th -9th July, 2021.
- iv. M.Radha Devi has successfully participated in the “3 Day Workshop on Advances in Materials Processing -3D Printing and Opportunities” at VIT-AP University, Amaravati (AP), India from 24th -26th July, 2021.
- v. T.J.Prasanna Kumar has participated in the three-day online workshop entitled” Structural & CFD Analysis using ANSYS” at VIT-AP University, Amaravathi from 28th – 30th August,2021.
- vi. Ch.LakshmiKanth has participated in the National Supercomputing Mission’s online KLA Workshop on "AI and HPC in Semiconductor Manufacturing " organized by IIT Madras 27th September – 01st October, 2021.
- vii. Dr. T. Ramakrishna has attended an online Workshop on "High performance computing in Engineering" Organized by Indian Institute of Technology Kharagpur and Ansys under the aegis of the National Supercomputing Mission, from 21st – 22nd October, 2021.
- viii. V.Sravani has participated in a one day workshop on “Improving Institute Industry Interaction and Consultancy” at VRSEC on 13th November, 2021.
- ix. M.Rajya Lakshmi has successfully completed 30days Renewable Energy Master Class at Pantech e Learning Pvt Ltd, Chennai in association with AP Skill APSSDC from 17th October - 16th November, 2021.

- x. U.Koteswara Rao has participated in the MoE, Government of India sponsored Five Day Online National SPARC Workshop on “Tribological and Corrosion Behaviour of Advanced Metal Matrix Nano-Composites for Engineering/Biomedical Sector” at NIT, Warangal from 18th – 22th October, 2021.
- xi. Dr.T.Rama Krishna has actively participated in a Two Day Online Workshop on “Write Research Articles using Latex conducted from 27th - 28th December, 2021.

c) STTP/STCs:

- i. Dr.G.Vijay Kumar has completed AICTE Sponsored One Week (Online) Short Term Training Programme (STTP-II) on Innovations and challenges in Industry 4.0 Automation and Smart Manufacturing at Kallam Haranadha Reddy Institute of Technology from 28th June- 03rd July, 2021.
- ii. Dr. Sd. Abdul Kalam has completed AICTE Sponsored One Week (Online) Short Term Training Programme (STTP-III) on Innovations and challenges in Industry 4.0 Automation and Smart Manufacturing at Kallam Haranadha Reddy Institute of Technology, Guntur from 26th - 31st July, 2021.
- iii. M.Rajya Lakshmi has participated in online National Level Short Tem Training Program on Outcome-Based Teaching, Assessments and Evaluation jointly organized by Sinhgad School of Engineering, Pune and Inpods Inc., USA from 02nd - 04th August, 2021.
- iv. M.Rajya Lakshmi has actively participated in Online National Level Short Term Training Program on Outcome Based Teaching, Assessments Teaching & Evaluation jointly organized by NBN Sinhgad School of Engineering, Pune and Inpods Inc., USA from 02nd -04th August, 2021.
- v. Radhadevi Matti has Participated in the One week Online Training Programme on "Mentoring and Counselling Skills for Teachers" Conducted by NITTTR, Chennai from 04th – 08th October, 2021.
- vi. P Gopalakrishnaiah has Participated in the One week Online Training Programme on “Advances in Casting and Manufacturing” Conducted by NITTTR, Chennai from 25.10.2021 to 29.10.2021.
- vii. K.Venkat Rao, Ch.Lakshmi Kanth Chintalapati have successfully completed and received a passing grade in "Data Science Tools" powered by IBM Developer Skills Network on 04th December, 2021.

d) Faculty Development Programmes:

- i. E.Kavitha has participated in One Week (Online) Faculty Development Program on” Emerging Trends in Thermal and Renewable Energy Systems” at Lakireddy Bali Reddy College of Engineering, Mylavaram from 28th June- 02nd July, 2021.
- ii. E.Kavitha, G.Bala Krishna, M.Somaiah Chowdary, Ch.Mohan Sumanth, J.Surendra has participated & successfully completed One Week Faculty Development Program on “Modern Industrial Technology in Mechanical Engineering” at Adithya Engineering College, Surampalem from 2nd -8th July, 2021.

- iii. E.Kavitha has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Mechatronics &MEMS" at NIT, Warangal from 05th -09th July, 2021.
- iv. Dr.Sd.Abdul Kalam, K.I.V.Vandana K.Venkata Rao, Ch.Lakshmi Kanth, M.Somaiah Chowdary has attended ISTE sponsored One Week Faculty Development Program on "Emerging Trends in Advanced Materials & Manufacturing Processes (ETAMMP-2021)" at Kakatiya Institute of Technology & Science ,Warangal from 12th -16th July,2021.
- v. J.Surendra has participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Manufacturing: Hindsight to Foresight" at Birla Institute of Technology & Science ,Pilani(BITS Pilani) from 16th -20th July,2021.
- vi. M.Somaiah Chowdary has participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Non Destructive Testing and Evaluation " at NIT, Srinagar from 26th -30th July,2021.
- vii. T.Srinag , M.Somaiah Chowdary have participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Sustainable Green Composites: Design, Manufacturing and Characterization" at NIT Meghalaya from 09th – 13th August, 2021.
- viii. Dr.K.Srividya, E.Kavitha has participated & successfully completed AICTE Training and Learning (ATAL)Academy Online Elementary FDP on "Additive Manufacturing : Current Trends and Prospects Towards Developing AM Research" at Indian Institute of Technology, Kanpur from 22nd - 26th August, 2021.
- ix. M.Radha Devi has actively participated and successfully completed APSSDC Online FDP on Advanced Surface Design by CATIA from 16th August – 01st September, 2021.
- x. Ch.Lakshmi Kanth has actively participated and successfully completed APSSDC Online FDP on Product Design and Drafting by CATIA from 16th August – 01st September, 2021.
- xi. M.Somaiah Chowdary, J.Surendra has participated and completed successfully AICTE Training and Learning(ATAL) Academy Online Elementary FDP on "Advances in Novel Composite Materials:Fabrication,Analysis and Optimization" at NIT, Patna from 06th - 10th September, 2021.
- xii. Dr.G.Vijay Kumar has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Stress Management" at VNR Vignana Jyothi Institute of Engineering and Technology from 13th – 17th September, 2021.
- xiii. Dr.B.Raghu Kumar has participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Design and Analysis using CATIA/ANSYS" at Dr.Ambedkar Institute of Technology from 20th -24th September, 2021.
- xiv. M.Rajya Lakshmi has participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "FDP on Guidance, Counselling & Mentoring" at Dr.Hari Singh Gour Vishwavidhalaya (A Central University) Sagar, MP from 20th -24th September, 2021.

- xv. N.Raghu Ram has participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Processing of Novel Materials” at IIT (BHU), Varanasi from 20th -24th September, 2021.
- xvi. Koteswara Rao Unnam has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Design and Analysis using CATIA/ANSYS” at Dr Ambedkar Institute of Technology from 20th -24th September, 2021.
- xvii. Koteswara Rao Unnam has successfully completed one week online FDP on "Vibration and Condition Monitoring (VACM -2021) organized by Department of Mechanical Engineering, Vasavi College of Engineering from 20th -24th September, 2021.
- xviii. Dr. T. Ramakrishna has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “ Faculty Development Programme on Energy Storage: Science & Technology at Motilal Nehru National Institute of Technology Allahabad from 20th -24th September, 2021.
- xix. Dr.K.Sri Vidya has participated in Two weeks Online Faculty Development Programme on “Matlab Programming for Additive Manufacturing and 3D Printing (MPAM)” jointly organized by Electronics and ICT Academies at IIT Guwahati, MNIT Jaipur, NIT Patna and PDPM IITDM Jabalpur from 20th Sept to 01st Oct, 2021.
- xx. Mr.Koteswara Rao Unnam has successfully completed one week (online) faculty development program on "New Age Materials & Technologies" organized by the Department of Mechanical Engineering, Sree Vidyanikethan Engineering College (Autonomous), from 04th – 08th Oct, 2021.
- xxi. Lakshmi Kanth Chintalapati has attended online FDP on "Advanced Artificial Intelligence and Machine Learning Applications" Conducted by Dept. of CSE, NIT Warangal from 11th – 15th Oct, 2021.
- xxii. Ch.Lakshmi Kanth has participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Advances in Numerical Methods for Engineering Structures: Fundamentals toward Applications" at Indian Institute of Technology Ropar from 25th – 29th Oct,2021.
- xxiii. Dr. T. Ramakrishna has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Fundamentals of Electric Vehicles” at Indian Institute of Technology (IIT) Jammu from 25th – 29th Oct,2021.
- xxiv. T.J.Prasanna Kumar successfully completed the course on “Aircraft Propulsion” and received Faculty Development Program certificate from NPTEL-AICTE during July-Oct-2021.
- xxv. M. Radha Devi has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Advanced FDP on “ Additive Manufacturing: Current Trends and Prospects Towards Developing AM Research” at IIT,Kanpur from 25th – 29th Oct,2021.
- xxvi. J.Surendra has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “: Lab on Chip and affordable diagnostics (under lab on chip thrust) at IIT , Kharagpur from 01st – 05th November, 2021.

- xxvii. Dr.G.Vijay Kumar has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “3D Printing & Design” at University College of Engineering, Osmania University from 08th – 12th November, 2021.
- xxviii. Dr.P.Phani Prasanthi, Dr.P.Anusha, T.J.Prasanna Kumar, KIV. Vandana has participated in a Three Day Faculty Development Program on “Recent Trends, Opportunities & Challenges in Tribology and Surface Coatings” at V.R.S.E.C from 16th -18th November, 2021.
- xxix. T.J.Prasanna Kumar has participated & successfully completed AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Recent Developments and Applications in Aerospace” at Punjab State Aeronautical Engineering College from 22nd - 26th November, 2021.
- xxx. V.Sravani has participated & successfully completed AICTE Training and Learning (ATAL) Academy Online Advanced FDP on “Processing of Novel Materials” at IIT (BHU) Varanasi from 22nd - 26th November, 2021.
- xxxi. Dr. G Vijay Kumar has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Advanced Industrial Automation" at Guru Gobind Singh Polytechnic Nasik from 06th – 10th December, 2021.
- xxxii. Dr.Sd.Abdul Kalam has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "3D Printing & Design" at NIT Warangal from 06th – 10th December, 2021.
- xxxiii. Lakshmi Kanth.Ch has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "IoT based Condition Monitoring” at Veermata Jijabai Technological Institute VJTI Mumbai from 06th – 10th December, 2021.
- xxxiv. M. Radha devi has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "3D printing and design of metals and polymers" at IIT Indore from 06th – 10th December, 2021.
- xxxv. Lakshmi Kanth.Ch has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Machine Learning Applications in Mechanical Engineering" at Acropolis Institute of Technology and Research from 13th – 17th December, 2021.
- xxxvi. T.J.Prasanna Kumar has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Additive Manufacturing: Lab Scale to Field Scale" at Indian Institute of Technology Palakkad from 13th – 17th December, 2021.
- xxxvii. Dr. G Vijay Kumar has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "ROBOTICS" at Sri Venkateswara University College of Engineering from 20th – 24th December, 2021.
- xxxviii. Ch.Lakshmi Kanth has attended Online FDP on “Python for Artificial Intelligence for Beginners” at NIT, Warangal from 24th -28th December, 2021.

e) Guest Lectures: NIL

f) Awareness programmes/Interaction meet/Quizzes, etc:

- i. Dr.P.Anusha has successfully completed Emergency Preparedness and Response by UNICEF on 13th October, 2021.
- ii. Dr.P.Anusha has received a certificate of completion on Alumni Leadership Program for completing 6-tracks Training Program on alumni relations conducted by Vaave on 13th November, 2021.

g) Conferences: NIL

4. Publications by the faculty (National/International Journals/ Conferences):

a) Scopus indexed journals:

- i. Kothuri Chenchu Kishore Kumar, Bandlamudi Raghu Kumar, Nalluri Mohan Rao, Fabrication and Corrosion Characterization of AZ31 Mg Alloy SIC Reinforced Composites. , Design Engineering, Vol-2021, Issue-5, Pg No: 2556-2570. September-2021,
- ii. P. Phani Prasanthi, K. Sivaji babu, A. Eswar Kumar, Waviness Effect of Fiber on Buckling Behavior of Sisal/Carbon Nanotube Reinforced Composites Using Experimental Finite Element Method, IJE TRANSACTIONS C: Aspects Vol. 34, No. 12, ISSN: 2617-2623, (December 2021).
- iii. Anupama Francy Kothasiri Srinivasa Rao Chalamalasetti, Gopalakrishnaiah Peteti Multiple Process Parameter Optimization Of Forward Extrusion Process On AA 2024, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. XIII, No. 2 / 2021 page: 63-75, December-2021.

b) SCI/SCIE/ESCI indexed journals:

- i. Kothuri Chenchu Kishore Kumar, Bandlamudi Raghu Kumar, Nalluri Mohan Rao, Microstructural, Mechanical Characterization, and Fractography of AZ31/SiC Reinforced Composites by Stir Casting Method, Silicon, Springer Nature B.V. 2021, ISSN: 1876-9918, August -2021, (SCI).
- ii. M V Ramesh, G Vijaya Kumar, B Suresh Babu , Exploration of Multi-Purpose electric vehicle for Agriculture using IOT, Tobacco Regulatory Science, ISSN: 2333-9748, Volume-7, Number 5-1, September-2021, (SCI)

c) IEEE/Springer journals: NIL

d) UGC/other journals:

- i. Prasanna Kumar T J, P Vamsi Raj Kumar, Md Saif, Sk Abdur Rehman, Md Abbas, published a paper titled “Steady State Thermal Analysis to Investigate Total Heat Flux in a Fiber Metal Laminate for Variable Thickness”, in International Research Journal on

Advanced Science Hub, (IRJASH), ISSN: 2582-4376, Volume 3, Issue Special Issue 7S, Pages 20-24, July-2021, (Others)

- ii. K VenkataRao, Y Kalyansai, B Saisuryavarun, P Rakesh, V Mourya chandra, published a paper titled “Influence of Teakwood Particulates on Mechanical Behavior of Biodegradable Polyester Hemp Fiber Reinforced Composites” in Journal of Emerging Technologies and Innovative Research, JETIR, July 2021, Volume 8, Issue 7, ISSN-2349-5162, PP: a762-a770, (Others)
- iii. M. Pavan Kumar, K. Prithvi Raj, B.Sridhar, Ch. Mohan Sumanth, Dr. K. Srividya published a paper titled “Oil Separator Skimmer” in International Journal of Research in Engineering and Science (IJRES), ISSN (Online): 2320-9364, ISSN (Print): 2320-9356, Volume 9, Issue 7 July- 2021, PP. 01-06, (Others)
- iv. Koteswara Rao Unnam, Bangaru Babu P, Nagaraju Ch, published a paper titled “Tuning of Natural Frequencies through Geometry Modification” in Levant Journal, Volume-20, Issue-7, PP:356-362, ISSN: 1756-3801, July-2021, (Others)
- v. Bala krishna G, B Raghu kumar, B Bala Krishna, published a paper titled “Multi objective prediction and optimization of control parameters of Friction stir welding on Casted AlSi10Mg plates with Taguchi – Gray Relational Analysis” in Global Journal of Engineering and Technology Advances, 2021, Volume- 08, Issue-01, PP: 001–009, ISSN: 2582-5003, July-2021, (Others)
- vi. G. Ashok Kumar, B. Sai Sundar, D. Ganesh Naik, Vidya.Ch, Parametric Analysis of Automotive Radiator Using Silicon Oxide Nanofluid asCoolant, International Journal of Research Publication and Reviews, ISSN 2582-7421, Volume-2, Issue-8, August 2021, pp: 1094-1097, (Others)
- vii. K. Sai Sankaran, K.Navya Sri,K. I. Vishnu Vandana, M. Rajyalakshmi, published a paper titled “Laser Beam Machining - A Review on Current Development” in International Journal of Research Publication and Reviews, ISSN 2582-7421, Vol. 2, no. 10, pp. 245-248, October 2021, (Others)
- viii. M. Rajyalakshmi, K. I. V. Vandana, M. Venkata Madhuvani, P. Madan Mohand , S. Trinadh Raj , Sk. Tabassum Farhana, published a paper titled “Design and Fabrication of Pyramidal-Hemispherical Solar Still” in International Journal of Research Publication and Reviews, ISSN 2582-7421, Vol. 2, no. 10, pp. 150-159, October 2021, (Others)
- ix. M. Rajyalakshmi1, K. I. V. Vandana, L. Ravi Teja, K. Bala Sai Narendra, K. Girish Babu, published a paper titled “Modeling, Analysis and Fabrication of Easy Fit Filter Cap” in Advancement in Mechanical Engineering and Technology, Volume 4 Issue 3, HBRP Publication Page 1-11 2021, December, 2021, (Others)

e) Conference Proceedings:

- i. Navuri Karteek, Pothamsetty Kasi V Rao, K. Ravi Prakash Babu, D. Mojeshwara Rao published a paper titled “Structural Analysis of Motorcycle Alloy Wheel”, E3S Web of Conferences 309, 01158 (2021), 3rd International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2021), Scopus Indexed

f) Book chapters: NIL

g) Books: NIL

5. Faculty Achievements (Patents, Higher Qualification awarded, guest lectures given, awards and rewards, acted as a Resource person etc.):

a. Patents:

- i. Dr. M. S. R. Niranjana Kumar, Dr. P. Phani Prasanthi, K. Tharun Kumar, K. Prasanthi, M. S. N. S. Harsha, G. Nikhil Venkat Sai, V. Sai Madhav, and Y. Kalyan Sai filed a patent titled, 'Portable Apparatus For Rain Water Harvesting' with the application number: 351732-001 on 20-10-2021.
- ii. Dr. P. Phani Prasanthi, K. Venkata Rao, P. Sasidhar, S. Naga Kumar, S. Siddhartha, S. S. Nagendra Babu, V. Sai Madhav, Y. Kalyan Sai filed a patent titled, 'Fruit Harvester' with the application number: 351508-001 on 20-10-2021.
- iii. Dr. P. Phani Prasanthi, Ch. Lakshmikanth, P. Anuroop, Sk. Kalisha, N. Mahesh, U. K. V. P. Sri Sai, V. Sai Madhav, and Y. Kalyan Sai filed a patent titled, 'Chair For Old People' with the application number: 351534-001 on 20-10-2021.
- iv. Dr. P. Phani Prasanthi, Dr. K. Srividya, G. V. R. D. Eswar, B. Siva Prasad, Ch. Vijaya Babu, Akula Surya, V. Sai Madhav, Y. Kalyan Sai filed a patent titled, 'Suitcase With Currency Counting Machine' with the application number: 351733-001 on 20-10-2021.
- v. Dr. P. Phani Prasanthi, T. J. Prasanna Kumar, Bevara Teja, A. Rohit Kumar, B. Harsha vardhan, A. Anil Sai, V. Sai Madhav, Y. Kalyan Sai, filed a patent titled, 'Ceiling Fan' with the application number: 351731-001 on 20-10-2021.
- vi. Dr. B. Raghu Kumar, Dr. P. Phani Prasanthi, R. Sai Kishan, N. Pavan, P. Ajay Sri Vastav, Praneeth, Y. Sai Madhav, Y. Kalyan Sai, filed a patent titled, 'Sea Water Desalination Apparatus using Solar Energy' with the application number: 351814-001 on 20-10-2021.
- vii. Dr. G. Vijay Kumar, Dr. P. Phani Prasanthi, I. Naveen, B. Abhilash Dattu, K. Madhva Rao, Y. Sai Madhav, Y. Kalyan Sai filed a patent titled, 'Solar Powered Package Lifting Mechanism For Buildings' with the application number: 351860-001 on 20-10-2021.
- viii. Dr. Phani Prasanthi, J. Surendra, L. Bharadwaja, Ch. Naveen Raju, K. Y. Sai Kiran Sandeep, Ch. Joseph Venkat Vidya Roy, V. Sai Madhav, Y. Kalyan Sai filed a patent titled, 'Black Gram Skin Removing Machine' with the application number: 351807-001 on 20-10-2021.
- ix. Dr. P. Phani Prasanthi, M. Radha Devi, K. Sai Sankaran, B. Lokesh, M. Yikas Dass, J. Akhil, V. Sai Madhav, Y. Kalyan Sai filed a patent titled, 'Spectacles For Invigilators' with the application number: 351835-001 on 20-10-2021.
- x. Dr. P. Phani Prasanthi, Dr. M. Naga Swapna Sri, E. U. Ramana Pranith, B. Sai Kiran Naik, A. Charan Teja, A. Teja Sai Abhiram, Y. Sai Madhav, Y. Kalyan Sai filed a patent titled, 'Overflow Indicator of the Water Fule Tank' with the application number: 351894-001 on 20-10-2021.
- xi. Dr. P. Phani Prasanthi, Dr. P. Anusha, N. Naveen, T. D. Venkata Krishna Sai Kireet, R. Setu Madhav, N. Sai Santosh, V. Sai Madhav, V. Kalyan Sai filed a patent titled, 'Sea Water Desalination Apparatus Using Wind Energy' with the application number: 351895-001, on 20-10-2021.

- xii. Dr.P.Phani prasanthi,Ch.Vidya, M. Musharaf abbas,K. Dileep, K. Bala Subramanyam, K. Raja, Y.Sai Madhav, Y.Kalyan Saifiled a patent titled, 'Foot Operated Lift Door' with the application number:351917-001, on 24-10-2021.
- xiii. T.Srinag,Dr.P.Phani Prasanthi, D.Uday Kiraan, A. Sesha Sai Narayana, B. Rajeev Kumar, A.Hema Manikanta Reddy, Y.Sai Madhav, Y. Kalyan Saifiled a patent titled, 'Floor Cleaning Machine'with the application number:351916-001, on 24-10-2021.
- xiv. Dr.P.Phani Prasanthi, Mohan Sumanth CH, G. Poorna Chandra Rao,K.Sai Krishna,K.Mohan Sri Vinay, K.Noel Prasanth,Y.Sai Madhav, Y.Kalyan Saifiled a patent titled, 'Semi-Automatic Dishwasher' with the application number:351938-001on 24-10-2021.
- xv. Dr. Phani Prasanthi, P. Mastan Rao, G. Rohith, A. Sukumar, K.Joseph, M.Krishna Charan, V.Sai Madhav,Y.Kalyan Saifiled a patent titled, 'Umbrella With Adjustable Stand' with the application number:351991-001on 25-10-2021.
- xvi. Dr. Phani Prasanthi, M. Nikhitha, T.Akshita, Y. Lokeswara Lakshmi Srinivas, V. Bhargav Sai, V.Sai Madhav,Y.Kalyan Saifiled a patent titled, 'Agricultural Machinery to Remove Excess Water From Crop fields'with application number:352002-001on 25-10-2021.
- xvii. NRaghu Ram,Dr. Phani Prasanthi,CH.Hemanth Sivaram Sidhu5 J.Sreekanth,G.Sushank G.Chinmaya Sri V.Sai Madhav,Y.Kalyan Saifiled a patenttitled, 'Package Lifting Mechanism For Buildings' with application number:352185-001on 28-10-2021.
- xviii. Dr. Phani Prasanthi, Dr. ChKishore Reddy, CH.V.S.S. Vivek, B.Uday,D.Kiran Sai, K.Jagadeesh, V.Sai Madhav, Y.Kalyan Saifiled a patent titled, 'Plant Pot To Save The Water'with application number:352186-001on 28-10-2021.
- xix. Dr. Phani Prasanthi, M. Rajya Lakshmi,M.Phani Priya, R.Gowtham Sai, M.Siva Rithwick,N.Hemanth Rao,V.Sai Madhav, Y.Kalyan Saifiled a patent titled, 'Automatic Dosa Making Machine' with the application number:352184-001on 28-10-2021.
- xx. Dr.P.Phani Prasanthi,K. I. V. Vandana, K.Navyasri, M.Poorna Krishna Sai, K.Shashank, Jaswanth, V.Sai Madhav, V.Kalyan Saifiled a patent titled, 'Semi-Automatic Roti Making Machine' with theapplication number:352275-001on 29-10-2021.
- xxi. Koteswara Rao Unnam,Dr.P.Phani Prasanthi, Ashok Kumar, Sohail Sarfaraj, Pranay, Arif, V.Sai Madhav, V.Kalyan Saifiled a patenttitled, 'Mechanical Drier For Clothes' with the application number:352273-001on 29-10-2021.
- xxii. Dr.P.Phani Prasanthi, T.J.Prasanna Kumar, B.Chitanya Naresh, B.A.Bhargav,M.Hema Latha,B.Sai Krishna, V.Sai Madhav, Y.Kalyan Saifiled a patent titled, 'Mechanical Drier For Clothes'with theapplication number:352341-001 on 29-10-2021.
- xxiii. Dr. Phani Prasanthi, Dr. Sayyad Abdul kalam, Y.Bhagavan Pradeep, Y.Gowtham, P.Udaya Durga, M.S.K.Chaitanya, Y.Sai Madhav,Y.Kalyan Saifiled a patent titled, 'Umbrella With Adjustable Stand' with the application number:352342-001on 29-10-2021.
- xxiv. Dr.P.Phani Prasanthi. Dr.T.Rama Krishna, Yadlamudi Chetan,SK.Mohammad Asif,N.Jagadeesh, K. Rakesh,V.Sai Madhav, Y.Kalyan Sai filed a patent titled, 'Centre

Stand For Two Wheeler Motorcycle’ with the application number:352345-001 on 29-10-2021.

- xxv. Dr. Phani Prasanthi, P. Gopalakrishnaiah, K. Satish, B. Sai Teja, N. Bhanu Prasad, G. Venkata Jaswanth, V. Sai Madhav, Y. Kalyan Sai filed a patent titled, ‘Leg Massage Device’ with the application number:352376-001 on 30-10-2021.
- xxvi. Dr. Phani Prasanthi, Jami. Sairevanth, Pavan kumar Gudipudi, Kuchibhotla Sai Phani Teja, Amam Rama Satyanarayana filed a patent titled, ‘Multi Use Agricultural Machine for Seeding, Ploughing, Pesticide Spraying And Grass Cutting (Utility)’ with the application number:347146-001 on 30-10-2021.
- xxvii. P. Phani Prasanthi filed a patent titled, ‘Fuel Tank’ with the application number:347463-001, on 06-08-2021.
- xxviii. P. Phani Prasanthi filed a patent titled, ‘Cot For Physically Disabled Persons’ with the application number:347464-001 on 06-08-2021.
- xxix. P. Phani Prasanthi filed a patent titled, ‘Size Extendable Lunch Box’ with the application number:347465-001 on 06-08-2021.
- xxx. P. Phani Prasanthi filed a patent titled, ‘Muscle Massage Device’ with the application number:347466-001 on 06-08-2021.
- xxxi. P. Phani Prasanthi, application number:347467-001, on 06-08-2021.
- xxxii. P. Phani Prasanthi filed a patent titled, ‘Dual Stamping Device’ with the application number:347468-001 on 06-08-2021.
- xxxiii. P. Phani Prasanthi filed a patent titled, ‘Legs Exercise Machine’ with the application number:347469-001, on 06-08-2021.
- xxxiv. P. Phani Prasanthi filed a patent titled, ‘Multiple Rubber Stamp Holding Device With Ink Pad’ with the application number:347470-001 on 06-08-2021.
- xxxv. P. Phani Prasanthi filed a patent titled, ‘Twin Chamber Vertical Dustbin’ with the application number:347471-001, on 06-08-2021.
- xxxvi. P. Phani Prasanthi filed a patent, titled, ‘Chopping Board’ with the application number:347472-001 on 06-08-2021.
- xxxvii. P. Phani Prasanthi filed a patent titled, ‘Size Adjustable Cot’ with the application number:347473-001 on 06-08-2021.
- xxxviii. P. Phani Prasanthi filed a patent titled, ‘Vegetable Holding Device’ with the application number:347474-001 on 06-08-2021.
- xxxix. P. Phani Prasanthi filed a patent titled, ‘Height inclination on Adjustable table’ with application number:347475-001 on 06-08-2021.
- xl. P. Phani Prasanthi filed a patent titled, ‘Water Bottle With Purifier’ with application number:347476-001 on 06-08-2021.
- xli. P. Phani Prasanthi filed a patent titled, ‘Id Card Holder With Sanitizer Dispenser’ with the application number: 347477-001 on 06-08-2021.

b. Ph.Ds awarded:

- i. T Ramakrishna was awarded Ph.D. degree for his thesis titled, "Numerical and Experimental Investigation of Buoyancy Induced Convection in High Porosity Media" from IIT Kharagpur on 25-08-2021.

c. Guest lectures delivered:

- i. Dr.G.Vijay Kumar acted as resource person and has delivered an informative and thought provoking technical talk in AICTE Sponsored One Week (Online) Short Term Training Programme (STTP-II) on Innovations and challenges in Industry 4.0 Automation and Smart Manufacturing on the theme topics "Industry 4.0 and Smart Manufacturing" and "Industry 4.0 Cyber Security" at Kallam Haranadha Reddy Institute of Technology, Guntur from 28th June- 03rd July, 2021.
- ii. Dr.G.Vijay Kumar acted as resource person and has delivered a guest lectures on "Industry 4.0 & Smart Manufacturing" and "Collaborative Robots" in AICTE Sponsored One Week (Online) Short Term Training Programme (STTP-III) on Innovations and challenges in Industry 4.0 Automation and Smart Manufacturing at Kallam Haranadha Reddy Institute of Technology, Guntur from 26th - 31st July, 2021.
- iii. Dr. G. Vijay Kumar has presented an innovative expert lectures on " Industry 4.0 & Smart Manufacturing and Collaborative Robots" in the AICTE sponsored one week (Online) Short Term Training Programme on " Innovations and challenges in Industry 4.0 Automation and smart Manufacturing" organized by Kallam Harinadhareddy Institute of Technology, from 9th -14th August, 2021.
- iv. Dr.P.Anusha has received a token of appreciation letter for delivering the webinar on the topic "The role of gas and liquid pipeline insulations in VCR System" at K.L.University on 23rd August, 2021.
- v. Dr.P.Anusha has delivered an informative and thought provoking lecture as Guest Speaker on "Addressing Learning Gaps on HVAC" at VVIT on 24th September, 2021.
- vi. Dr.B.Raghu Kumar, T.Srinag, N.Raghu Ram acted as Resource Persons and has delivered 3 sessions on different criteria on NAAC Accreditation Process at D.M.S.S.V.H College of Engineering , Machilipatnam on 25th September, 2021.

d. Reviewers of journals:

- i. Dr. B. Raghu Kumar, Professor & HOD, Department of Mechanical Engineering reviewer for Journal of Mechanics and Design.

6. Faculty Participation (as a Judge, Guest, or BOS member, & Chairing a session, etc.):
NIL

7. MOOCs courses completed by the faculty:

COURSERA:

- i. Dr.G.Vijay Kumar completed a course titled "Big Data Artificial Intelligence and Ethics" authorized by the University of California and offered through Coursera on 5/01/2022.

- ii. Mr. K.Venkata Rao completed a course titled “Data Science Math Skills” authorized by Duke University and offered through Coursera on 20/06/2021.
- iii. Mr. Ch.Lakshmi Kanth completed a course titled “Data Science Math Skills” authorized by Duke University and offered through Coursera on 22/06/2021.
- iv. Mr. Ch.Lakshmi Kanth completed a course titled “Machine Design Part-1” authorized by Georgia University and offered through Coursera on 12/12/2021.

NPTEL:

- i. Mrs.M. Rajya Lakshmi completed a course titled “Accreditation & Outcome based Learning” authorized by IIT Kharagpur and offered through NPTEL during July-September 2021.
- ii. Mr.K.Ravi Prakash Babu completed a course titled “Product Design & Development” authorized by IIT Roorkee and offered through NPTEL during July- August 2021.

8. Industrial Visits:

- i. Ten students of Third year and final year of Mechanical Engineering visited ATAL TUNNEL, MANALI from 12/11/2021 to 17/11/2021.
- ii. III B.Tech I semester (Section- 2) of Mechanical Engineering students visited the CIPET industry, Surampalli on 21/12/2021.
- iii. III B.Tech I semester (Section- 1) of Mechanical Engineering students visited the CIPET industry , Surampalli on 24/12/2021.

9. Students' achievements:

a) Co-curricular Activities:

- i. K.Sai Dikshit, Md.Sameer, Md.Abdul Rahim Ahmed of II B.Tech has participated in the Event CORE RIDERS 2021 supported by Cisco Networking Academy in association with Edu Skills during June-July,2021.
- ii. K.Sai Susheth of II B.Tech has participated in the Event “Jam” of connect 2K21 at CR Reddy college of Engineering, Eluru from 2nd -3rd July, 2021.
- iii. K.Sai Susheth of II B.Tech has participated in the Event “Mock Interview” of Online Techfest connect 2K21 at CR Reddy college of Engineering, Eluru from 2nd -3rd July, 2021.
- iv. K.Sai Susheth of II B.Tech has participated in the Event “Technical Test” of connect 2K21 at CR Reddy college of Engineering, Eluru from 2nd -3rd July, 2021.
- v. K.Sai Susheth of II B.Tech has participated in 5-Days Workshop on Web Development at Brain O Vision Solutions Pvt Ltd from 12th -16th July, 2021.
- vi. K.Venu, K.Sai Dikshit, Md. Sameer, Md. Abdul Rahim Ahmed and K Sai Susheth of II B.Tech have successfully completed "Cpp test" organized at Prasad V. Potluri Siddhartha Institute of Technology by Department of Computer Science & Engineering, through

google meet with course material provided by the Spoken Tutorial Project, IIT Bombay, conducted remotely from IIT Bombay on 7th August, 2021.

- vii. 15 students of III B. Tech have successfully completed “C” test organized at P.V.P.S.I.T by department of CSE through Google meet with course material provided by spoken tutorial project , IIT Bombay conducted remotely from IIT Bombay on 07th August ,2021.
- viii. 22 students of III B.Tech have successfully completed C++ test organized at P.V.P.S.I.T by department of CSE through Google meet with course material provided by spoken tutorial project, IIT Bombay on 07th August, 2021.
- ix. 6 students of IV B.Tech have participated in One Day Seminar on “Role of Internships and Industrial Projects in Engineering Education” at V.R.S.E.C on 11th November, 2021.
- x. 49 students of IV B.Tech (SEC-1) have successfully completed the Training Program on “Product Design and Drafting by CATIA” organized by APSSDC from 27/09/2021 to 01/10/2021.
- xi. 39 students of IV B.Tech (SEC-2) have successfully completed the Training Program on “Product Design and Drafting by CATIA” organized by APSSDC from 4th -9th October, 2021.
- xii. 50 students of III B.Tech (SEC-1) have successfully completed the Training Program on “Product Design and Drafting by CATIA” organized by APSSDC from 18/10/2021 to 23/10/2021.
- xiii. 50 students of III B.Tech (SEC-2) have successfully completed the Training Program on “Product Design and Drafting by CATIA” organized by APSSDC from 25/10/2021 to 30/10/2021.
- xiv. M.Nikhitha of IV B.Tech has participated in event Technical Paper Presentation and **won 1st Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xv. P.Sasidhar , Y.B.Pradeep of IV B.Tech has participated in event Technical Paper Presentation and **won 2nd Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xvi. P.Anuroop, Sk.Kalisha of IV B.Tech has participated in event Technical Paper Presentation and **won 3rd Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xvii. A.Rohith Kumar of IV B.Tech has participated in event Design Contest and **won 1st Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 08th October, 2021.
- xviii. U.Sivananda of III B.Tech has participated in event Design Contest and **won 2nd Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 08th October, 2021.
- xix. S.Rama Devi of III B.Tech has participated in event Design Contest and **won 3rd Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 08th October, 2021.

- xx. B.Ujjwal Srivatsav of II B.Tech has participated in event Tech Jam and **won 1st Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxi. Md.Abdul Rahim Ahmed of III B.Tech has participated in event Tech Jam and **won 2nd Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxii. E.Uthapal Raman Praneeth of IV B.Tech has participated in event Tech Jam and **won 3rd Prize** organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxiii. Y.Gowtham, S.Naga Kumar of IV B.Tech has participated in event Technical Paper Presentation organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxiv. N.Nikhil Babu, S.Rama Devi of III B.Tech has participated in event Technical Paper Presentation organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxv. K.Mani Naga Kumar of II B.Tech has participated in event Technical Paper Presentation organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxvi. S.Naga Kumar, Ch.H.S.S.Prasad of IV B.Tech has participated in event Tech Jam organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxvii. D.Nokesh, K.Mani Naga Kumar of III B.Tech has participated in event Tech Jam organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxviii. A.Govardhan Ganesh Kumar, D.Sai Charan , G.Bhargav, G.Srikar,G.Venkata Sri Raviteja, A.Rajesh, L.Adithi Chakravarthy, P.Akshitha, A.Tony Harsha Vardhan of II B.Tech has participated in event Tech Jam organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxix. B.Harsha Vardhan, S.Naga Kumar, P.Sasidhar,P.Anuroop, K.Tharun Kumar, B.Rajeev Kumar, B.Teja, N.Vikas, A.Hema Manikanta Reddy, K.Satish, N.Manohar of IV B.Tech has participated in event Design Contest organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxx. G.Rajamouli, K.Mani Naga Kumar, K.Siddhartha, K.Jagadeesh Babu, K.Ashok, N.Nikhil Babu, V.Venkateswara Rao, P.Manikanta, V.Chinmai, D.Nokesh of III B.Tech has participated in event Design Contest organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 07th October, 2021.
- xxxi. K. Sai Dikshit of III B.Tech has got **appreciation certificate** for his contribution as a College co-ordinator for KOUSHAL Quiz competition being conducted by APCOST and Bharatiya Vijnana Mandali.
- xxxii. K. Sai Susheth of III. B.Tech has **won 1st Prize** in the Grand Quiz event as a part of Azadi Ka Amrit Mahostav'2021, official 75 years of Indian Independence conducted by District Admission, Gov. of Andhra Pradesh in association with Siddhartha Academy of

General & Technical Education & JIGNASA Interface Private Limited from 26th -27th November, 2021.

- xxxiii. Md. Abdul Rahim Ahmad, M. Praveen Chowdary, N. Aishwarya of III B.Tech have participated in the event as a part of Azadi Ka Amrit Mahostav'2021, official 75 years of Indian Independence conducted by District Admission, Gov. of Andhra Pradesh in association with Siddhartha Academy of General & Technical Education & JIGNASA Interface Private Limited from 26th -27th November,2021.
- xxxiv. Vemulapalli Chinmai of III.B.Tech has participated and **secured 3rd prize** in the Design challenge event at XXV National Level Student Technical Symposium Ropple 2K21 organised by Rajeev Gandhi Memorial College of Engineering & Technology from 01st - 02nd December, 2021.
- xxxv. S. Rama Devi of III B.Tech has participated in Design challenge event at XXV National Level Student Technical Symposium Ropple 2K21 organised by Rajeev Gandhi Memorial College of Engineering & Technology from 01st -02nd December, 2021.
- xxxvi. S. Rama Devi and Vemulapalli Chinmai of III B.Tech has presented a Technical paper entitled " Ceramic cutting tools for dry machining of hardened steels" at the XXV National Level Student Technical Symposium Ropple 2K21 organised by Rajeev Gandhi Memorial College of Engineering & Technology from 01st -02nd December, 2021.
- xxxvii. Dadi. Nokesh and Jaya Madhuri M of III B.Tech have presented a Technical paper entitled " Hybrid Electric Vehicles" at the XXV National Level Student Technical Symposium Ropple 2K21 organised by Rajeev Gandhi Memorial College of Engineering & Technology from 01st -02nd December, 2021.
- xxxviii. Dadi. Nokesh of III B.Tech has participated in the event 100 m sprint at Vasireddy Venkatadri Institute of Technology from 01st -02nd December, 2021.
- xxxix. K. Sai Dikshit, Md. Sameer and Md. Abdul Rahim Ahmed of III. B. Tech has participated and **secured 3rd position** in the Quiz competition organised by VVIT in association with ISHRAE Vijayawada Chapter and CII-IGBC Amaravati Chapter on 07th December, 2021.
- xl. D. Nokesh of III B. Tech has **won 1st Prize** in the event body assembly organised by Vasireddy Venkatadri Institute of Technology on 21st December,2021.
- xli. K. Sai Susheth of III B. Tech has **won 1st Prize** in the event SAP Quiz organised by Vasireddy Venkatadri Institute of Technology on 21st December,2021.
- xlii. Sai Susith of III B. Tech has **won 1st Prize** in the event Tech hunt organised by Vasireddy Venkatadri Institute of Technology on 22nd December,2021.
- xliii. K. Sai susheth, K. Nagaraju, K. Uday Gopal of III B.Tech have got **appreciation certificate** for their contribution as district organizing Team member for Koushal Quiz/poster competition being conducted by APCOST and Bharatiya Vijnana Mandali on 29th December, 2021.

b) Extra-curricular Activities: NIL

c) Coursera/NPTEL Details of the students:

III B.Tech Mechanical Engineering students have completed 05 certification courses through Coursera.

10. Higher Education:

a) The following students got admission for doing Higher studies (MS/ME/M.Tech...).

- i. B. PUJITHA (16501A0308) of 2016-2020 Batch Joined MS in International Business and Management at LIVERPOOL JOHN MOORES University.
- ii. D. VINEETH KRISHNA (16501A0320) of 2016-2020 Batch Joined in ME in Mechanical engineering at University of Ottawa.
- iii. G. PRASANNA SAI (16501A0325) of 2016-2020 Batch Joined MS in Mechanical engineering at Cleveland State University.
- iv. B. ANIL (15501A0313) of 2016-2020 Batch joined MS in Mechanical engineering at Southern Illinois University Edwardsville.
- v. T. PRATAP KUMAR (17501A03B1) of 2017-2021 Batch joined M. Tech in Fluid and Thermal Sciences at IIT Kanpur.
- vi. SHAIK KHAJA MOBIN (16501A0388) of 2016-2020 Batch joined MS in Mechatronics Engineering at TEXAS A&M University Kingsville.
- vii. U. DEVI SUSHMA (17501A03B2) of 2017-2021 Batch joined M. Tech in Materials and Manufacturing at SRM University.
- viii. KVPT JAGANADHA RAO (17501A0340) of 2017-2021 Batch joined M. Tech in Robotics and Mechatronics at K L University.
- ix. V. SAI HARSHA VARDHAN (16501A03A4) 2016-2020 Batch joined MS in Mechanical Engineering at Southern Illinois University, Edwardsville.
- x. R VENKATA CHAITNYA REDDY (17505A0318) of 2016-2020 Batch joined MS in Mechanical Engineering at TEXAS A&M University Kingsville.
- xi. V. SAILESH (16501A03A7) of 2016-2020 Batch joined in Professional Studies – MPS at The Graduate School at UMBC, University of Maryland.
- xii. BORUGADDA SRIDHAR (17501A0315) of 2017-2021 Batch joined M. Tech in Energy systems at JNTU, Anantapur.

b) The following students got qualified in State/National/International Level competitive examinations (IELTS/GRE/PGECET...)

- i. Five Students (17501A0357, 17501A0363, 17501A0354, 17505A0320 and 7501A0335) qualified for the IELTS examination.
- ii. Five Students (17501A0357, 17501A0363, 16501A0352, 16501A0336 and 17501A0335) qualified for the GRE examination.
- iii. Four Students (16501A0352, 17501A0366, 16501A0322 and 17501A0335) qualified for the Duolingo English examination.
- iv. 17501A0358 and 17501A0323 qualified for the TOEFL examination
- v. 17501A0315 qualified for the PGECET examination.

11. Other Information:

a) Students and Staff membership of professional bodies:

- i. Student Memberships: ISTE-93 and IE-64
- ii. Faculty Memberships: ISTE -29, IE-03, IAENG-06, IRED-10, SFA-01, IIM-01, PMAI-01, MRSI-01 and CMSI-01.

b) Cultural / Literacy activities:-

- i. 14 Students of Mechanical Engineering Participated CHITRALEKHANA competition on “SOCIO-CULTURAL CONTEXT OF DEEWAALI – A GLOBAL VIEW” conducted by the Techno Cultural Committee, Department of Mechanical Engineering on 28th October 2021.
- ii. B. Sriyutha 20501A0306 got FIRST Prize, K. Yamineswari 20501A0345 and Yaswanth 20501A0311 got SECOND Prize.



c) Equipment Procured: NIL

d) Alumni Interactions:

- i. Mr. Kundett Kalyan Venkateswar (06501A0314) of 2006-2010 batch who is working as Manager QA at Hexaware Ltd Chennai, Interacted with II B.Tech Sec-1 students on the topic, "Opportunities in Core branches" on 26.07.2021
- ii. Mr. Siva Kuntamukkala (14501A0355) of 2014-18 batch who is working as Test engineer in Automation test engineer (TCS) at Bhuvaneshwar interacted with IV B.Tech II Sem Sec-2 Students on the topic “Modern trends in mechanical engineering,” on 08.09.2021



- iii. Mr. Balaji Tadikamalla (11501A03451) of 2011-15 batch who is working as Mechanical Design Engineer IN UNITEC Spa ITALY, interacted with IV B.Tech II Sem Sec-2 Students on the topic “Modern trends in mechanical engineering,” on 13.09.2021



- iv. Palivela Bhargav Chandan (12501A0374) of 2012-2016 batch who is working as full time PH.D Scholar at Indian Institute of Technology Tirupati (IIT Tirupati) interacted with II B.Tech II Sem Sec-2 Students on the topic “Career paths and research activities,” on 25.09.2021



- v. Radhika Chalasani (98501A1626) of 1998-2002 batch who is working as Resident Physician (Anesthesiology) interacted with Faculty and Final year Students in Online alumni meet on the topic “Career paths and research activities,” on 18.12.2021.



e) Placements:

- Ch Hemanth Sivaram Sidhusiva Prasad, Eluru Uthapal Raman Praneeth, Kandath Sai Sankaran, Maganti Poorna Krishna Sai, Mohammed Sohail Sarfaaz, Mulpuri Nikhitha, Phani Priya Matta, Reddi Veera Venkata Sai Mahesh Prabhakar, Syaed Shabbeer Basha, T Akshitha, Gunda Rohith, Natha Manohar, Repalle Sai Kishan of IV B.Tech I semester Placed in **Cognizant Technology Services** from Campus Placement Drive held on 5th October 2021.

- ii. Bevara Teja, Kokkiligadda Tarun Kumar, Pinjala Mohan Sai, Ch Hemanth Sivaram Sidhusiva Prasad, Kandath Sai Sankaran, Natha Manohar, Mulpuri Nikhitha of IV B.Tech I semester Placed in **Tata Consultancy Services** from Campus Placement Drive held on 11th October 2021.
- iii. Bokka Chaitanya Naresh, Prasanth Kanubuddi of IV B.Tech I semester Placed in **Accenture Solutions** from Campus Placement Drive held on 18th October 2021
- iv. Bejjam Uday Tej, Boda Lokesh, Chekka Venkata Sumanth, Dasari Uday Kiran, Konkala Navya Sri, Rayapati Gowtham Sai, Shaik Mohannad Asif, Yakkala Bhagavan Pradeep, Mallavalli Hemalatha, Prasanth Kanubuddi, Eluru Uthapal Raman Praneeth, Maganti Poorna Krishna Sai, Phani Priya Matta, Gunda Rohith, Repalle Sai Kishan, Pinjala Mohan Sai of IV B.Tech I semester Placed in **Wipro** from Campus Placement Drive held on 27th October 2021.

f) Consultancy:

- i. The Department of ME received an amount of Rs.22,500/- towards consultancy work for testing the specimens for tensile, bending and impact strength.

g) AICTE Project granted:

- i. An amount of Rs.2,00,000/- was sanctioned under AICTE YUVAK 2021 to visit the ATAL Tunnel, Manali. Rs.1,00,000- was already received from AICTE to the department of Mechanical Engineering.

h) Awards received by the faculty:

- i. Dr.P. Phani Prasanthi, Associate Professor, Department of Mechanical Engineering achieved a new 'Indian Record' by Indian Book of Records for being the first Indian to register 15 Intellectual Property Rights in just 24 hours on 06.08.2021 under Controller General of Patents, Designs and Trademarks.



- ii. Department of Mechanical Engineering achieved a record of 'Maximum patents filed' by Indian Book of Records for filing 25 patents in a span of nine days as confirmed on 11.11.2021.

12. Students Corner:

i) The Spark of Hope

Amara sat at her desk, her eyes fixed on the blank page in front of her. The deadline for her novel's first draft loomed, but the words just wouldn't come. She had always dreamed of being a writer, of creating stories that could touch hearts, but now, she felt like a failure. Her mind was heavy with self-doubt, and the once bright passion for her writing had dimmed.

Frustrated, Amara stood up and walked to the window, staring at the bustling city below. People walked by, absorbed in their own lives, unaware of the struggle inside her. She wondered if anyone else had ever felt this way—lost, uninspired, and overwhelmed by the weight of their dreams.

Then, she saw an elderly man sitting on a bench across the street, his hands shaking as he carefully opened a small notebook. His clothes were worn, his hair thin and gray, yet there was a calm focus in his eyes. Amara noticed how he smiled softly as he began to write, the pen moving slowly but steadily across the page.

Curiosity tugged at her. She grabbed her coat and left her apartment, crossing the street toward the bench. The man looked up as she approached, his smile widening.

"Excuse me," Amara said, "I couldn't help but notice... you were writing. Can I ask what you're working on?"

The man chuckled, his voice warm and gentle. "Ah, just some thoughts. It's been a lifetime of words, you know. Some days, they come easily, and other days, not at all. But I write because I must. The stories, the words—they're always there, waiting to be written."

Amara felt a spark of something inside her, something she hadn't felt in weeks. "But what if they don't come? What if the inspiration never strikes?"

The man paused, looking at her with kind eyes. "You see, inspiration isn't something that strikes like lightning. It's more like the sunrise—it might be hidden behind clouds, but it's always there, waiting to rise. The key is to keep showing up, even on the days when it seems impossible."

Amara stood there, absorbing his words. It was simple, yet powerful. She realized that the pressure she had placed on herself was preventing her from writing. Inspiration wouldn't come by force—it came through persistence, through showing up even when it felt like the words were lost.

"Thank you," she whispered, feeling a weight lift from her shoulders.

The elderly man nodded, turning back to his notebook. "Remember, the words will find you. Just keep writing."

Amara walked back to her apartment, her heart lighter, her mind clearer. She sat down at her desk, pen in hand, and began to write—slowly at first, but with the certainty that inspiration was never too far away.

And so, her story began.

Article by
Sk. Afzal Nabi
20501A0384

ii) Whispers of Nature

The breeze hums soft through ancient trees,
A song of earth carried on the seas.
Leaves shimmer in the golden light,
Dancing gently, day to night.

Mountains rise with silent grace,
Their snow-capped crowns a vast embrace.
Rivers carve the land below,
In winding paths where wildflowers grow.

The sky unfurls its endless blue,
Painted with the sun's bright hue.
Clouds like dreams drift slow and wide,
Tracing paths where secrets hide.

Birds on wings of freedom glide,
Their songs a symphony of pride.
The earth below, the heavens high,
In nature's arms, we learn to fly.

A world alive with colors bold,
With stories whispered, yet untold.
In every stone, in every tree,
The pulse of life beats wild and free.

Article by
P Savithri Devi
21505A0318

iii) **WHO ARE YOU.....**

Who are you?
Are you an angel,
Who came to save me,
Who can make me conquer the world,
If you are not beside me.

Who are you?
Are you a diamond,
Which is difficult to understand
Which is so precious to handle,
But still liked by all.

Who are you?
Are you a fortune,
Which gives victory
To the world you may be someone
But to me you are the only world.

Who are you?
Are you a hope,
With stands beside me,
And Guides me in right path
To lead a successful life

Who are you?

You are my guideline
You are my philosopher
You are my Divine Light
“YOU ARE MY TEACHER”

Article by
Gummadi Naga Sai Kiran
21505A0309

iv) ATAL Tunnel Experience

I am Mohammad Sameer, carrying roll number 19501A0348 from PVP Siddhartha Institute of Technology. With the support of the AICTE Yuvak Scheme, I, along with 9 other members, had the opportunity to visit the Atal Tunnel.

The Atal Tunnel, also known as the Rohtang Tunnel, is a remarkable highway tunnel located beneath the Rohtang Pass in the eastern Pir Panjal range of the Himalayas, along the Leh-Manali Highway in Himachal Pradesh, India. At a length of 9.02 km, it is the longest single-tube highway tunnel in the world at an altitude above 10,000 feet (3,048 meters). The tunnel is named in honor of former Prime Minister of India, Atal Bihari Vajpayee.

With the existing Atal Tunnel and the under-construction Shingo La Tunnel (set to be completed by 2024), both the Leh-Manali Highway and the Nimmu-Padum-Darcha road will soon become all-weather routes, making travel easier and safer in this challenging region.

During our trip, all 10 of us enjoyed our visit to Manali immensely. We not only had a great time but also learned a lot about the technology behind the Atal Tunnel and its numerous advantages. The experience was educational and inspiring, and we are grateful for this opportunity.



Article by
Mohammad Sameer
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