



PVPSIT

Department of Mechanical Engineering

NEWS LETTER

January-June, 2023

EDITORIAL BOARD

Chief Patron: DR. K. SIVAJI BABU

Chief Editor: DR. B. RAGHU KUMAR

Department Editor:
DR. SD. ABDUL KALAM

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.

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.

Contents

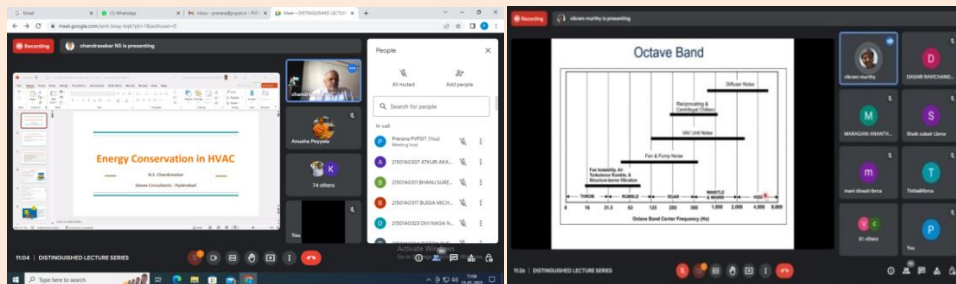
- ◆ *Guest Lectures / Workshops Organized*
- ◆ *Faculty Achievements*
- ◆ *Faculty Publications/ Conferences*
- ◆ *Workshops Attended by Faculty*
- ◆ *Industrial visits*
- ◆ *Students Achievements*

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

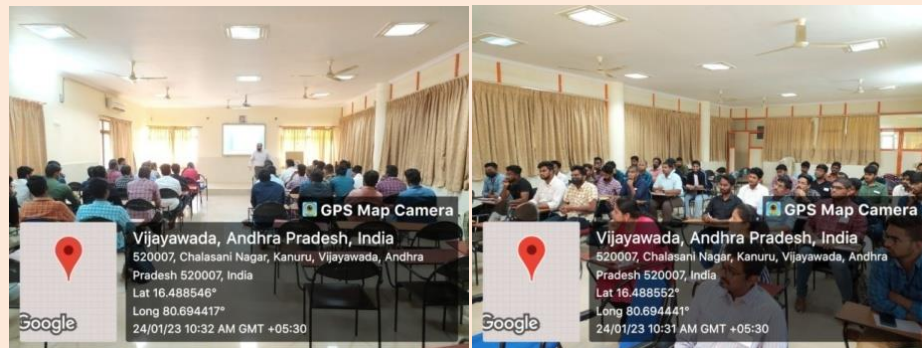
Department of Mechanical Engineering in association with ISHRAE Vijayawada Chapter is organized five DISTINGUISHED LECTURE SERIES from 23.01.2023 to 28.01.2023 by industry personals for IV -B. Tech. ME students and staff from 11:00 AM to 01:00 PM in the Google meet platform.

Distinguished Lecture Series are:

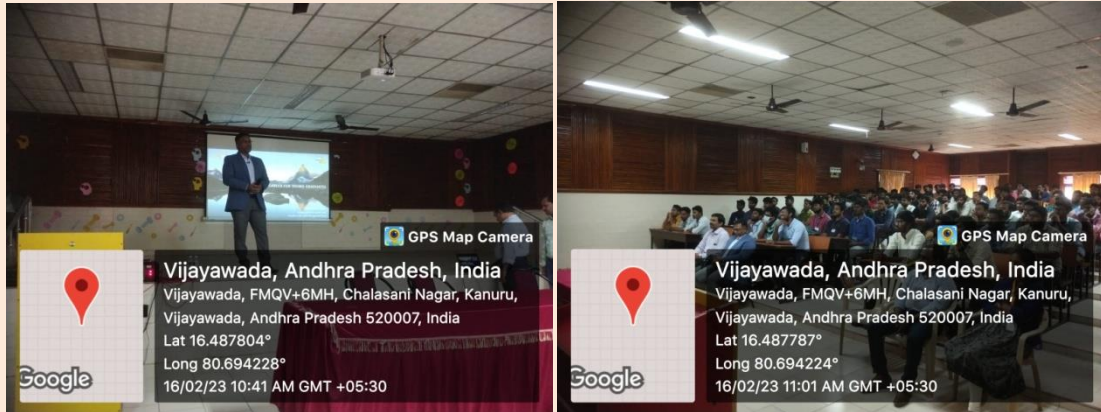
- i. “Energy Efficient HVAC Systems” by Mr.N.S.Chandrasekar, National President, ISHRAE Chief Consultant & Certified Energy Auditor, Genex Consultants, Hyderabad on 23.01.2023.
- ii. “DUCT DESIGN” by Mr. Vikram Murthy, National Past President, ISHRAE, Director, Univac Environment Systems Pvt. Ltd. Mumbai on 24.01.2023.
- iii. “Understanding Diversity in VRF Design” by Mr. A Madhukar, National Student Chair, CEO- Climatics, Bangalore on 25.01.2023.
- iv. “PROJECT MANAGEMENT” by Dr.R.V.S.S.Prasad, Imm Past President – Deccan Head of Business Development -Pavani Engineers, Hyderabad on 27.01.2023.
- v. “KITCHEN VENTILATION” by Dr. B. Anand, National ICP Vice Chair, ISHRAE, Partner Consultant, Genex Consultants, Hyderabad on 28.01.2023.



- vi. A Guest Lecture on “Scope of Engineering Graduates in the Techno-Management Sector” by Dr. P Muralidhar, Head (LSCM), NICMAR, Hyderabad and Prof. Ravindranadh Chowdary .K, Asst. Professor, NICMAR Hyderabad for IV-B. Tech. ME students on 24.01.2023 from 09:30 AM in the e-class room (255), ECE department.



- vii. A Seminar on “Career Opportunities for young graduates in SAP” by Mr. Paparao Madasu, Managing Director, Apsolut Software India Pvt. Ltd., Vijayawada and Viswanath Peyyety, Vice – President, Apsolut Software India Pvt. Ltd., Vijayawada. , for III & IV -B. Tech. ME students on 16.02.2023 from 10:00 AM to 12:00 Noon in the Ground floor Seminar hall.



- viii. In association with ISHRAE Vijayawada Chapter is organized a Four day ICP Certified course on “AC Service Level-1” by Dr. B. Anand, National ICP Vice Chair, ISHRAE, Partner Consultant, Genex Consultants, Hyderabad, Dr. R.V.S.S.Prasad, Pavani Engineers, Hyderabad, Mr. K. V. Trinadha Prasad, Training Chair, ISHRAE Vijayawada Chapter, Director, KELVI COOL Agencies, Vijayawada, Dr. P. Anusha, Assistant Professor , Dept. of Mech. Engg., PVPSIT, Vijayawada as technical experts for non teaching staff of Mechanical Engineering and outside participants at PVPSIT from 23.02.2023 to 26.02.2023” in the room number 134A.



- ix. Two day International Conference on RECENT ADVANCES IN MECHANICAL AND INDUSTRIAL ENGINEERING (ICRAMIE-2022) on 24.03.2023 and 25.03.2023 organized by Department of Mechanical Engineering sponsored by Siddhartha Academy of General and Technical Education, Vijayawada.
- x. A “Interactive session on NDT & Placement Opportunities” on 12.04.2023 by Mr. G. Vijay Kumar. CEO, In-house training division, Prakash Spectro cast Pvt. Ltd. &

SYNERGEM, for III & IV -B. Tech. ME students from 10:00 AM to 12:30 PM in the Ground floor Seminar hall.



- xi. A certification course on “Applications of Non-Destructive Testing” is conducted from 01.05.2023 to 06.05.2023 from 01.00 PM to 6.00 PM for the registered III B. Tech Mechanical Students in collaboration with “SYNERGEM”, Hyderabad. Mr. B. Ravi Teja, Technical Trainer from Synergem handled the training classes for both theory and hands-on practice sessions. Total 44 students gained knowledge from this course.

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

- i. **E.Kavitha**, Dr.K.Sivaji Babu, Dr.M.R.S.Satyanarayana has participated and presented a paper on “Hydrothermal Impact on Mechanical Behavior of Carbon T300 and S Glass Hybrid Fiber-Reinforced Composites Under Various Staking Sequences” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
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- xv. Jalli Emanuel, Prasada Raju Kanteti, **G Bala Krishna**, M Vijay Daniel, B Durga Prasad Optimization of process parameters in Friction stir welded AA6063 and AA7075 Joints, “Intelligent manufacturing and Energy Sustainability”, Pp-285-294, June-2023, Scopus
- xvi. **K. Venkata Rao**, Ch Lakshmikanth, P Savithri devi, Y. Rohith, T Hari Krishna, V. Veera Manikanta, “ A study on the mechanical and thermal properties of natural fiber reinforced hybrid composites”, at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023
- xvii. **Ch Lakshmikanth**, K. Venkata Rao, K Bhagya Sri, T kiran kumar, M Manoj Kumar, V Murali Krishna” Experimental Investigation of teak wood particles and hemp fiber hybrid reinforced composites, at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023
- xviii. M. Venkateswarlu, **M. V. H. Satish Kumar**, G. Dharmiah, Mathematical study of MHD nano Carreau liquid flow in an inclined cone and wedge in the proximity of porous medium and chemical reaction, AIP Conference Proceedings 2819, 050001 (2023), <https://doi.org/10.1063/5.0137011>, JUNE 08 2023

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

a) Seminars/Webinars:

- i. Jasti Surendra has participated in one day National Seminar on “Green Chemistry Applications in Process Development” organized by department of Chemistry, KL University on 11.11.2022.

b) Workshops:

- i. Dr. K. Srividya, Dr. Sd. Abdul kalam, Dr.P.Anusha, Dr.M.N.Swapna Sri, Dr. KIV Vandana, Dr. M. Rajyalakshmi, E.Kavitha, P. Mastan Rao, M. Radhadevi, P.Gopalakrishnaiah, V.Sravani have participated in the "5-Day Technical workshop on Energy Efficient HVAC Systems" by Industry experts organized by ISHRAE Vijayawada Chapter from 23.01.2023 to 28.01.2023.
- ii. M.Radhadevi has participated in the Three Days Online International Workshop on “Advanced Research Tools for Effective Research” at Research and Publication Division,

Scholars Gate- Research Training Institute, Tamilnadu, India from 10.05.2023 to 12.05.2023.

- iii. M.Radhadevi has attended Two -Day Workshop on “Development of IoT system for targeted Application using ARM” organized by ECE Department in association with Physitech Electronics Hyderabad at P.V.P.S.I.T from 21.06.2023 to 22.06.2023.

c) STTP/STCs:

- i. Vidya Chaparala has successfully completed the course of "Moodle for Training and Professional Development" organized by Infosys Springboard on 17.03.2023.
- ii. M.Radhadevi has participated in Online Continuing Education Program on “Opportunities and Challenges in Artificial Intelligence & Machine Learning for Mechanical Engineers” at NIT, Warangal from 24.04.2023 to 28.04.2023.
- iii. Ch.Vidya has successfully completed the course on “Kanban for Operations: Managing Projects using Kanban” by Infosys Springboard on 26.05.2023.
- iv. M.Radhadevi has attended online Short Term Course on “Machine Learning and Applications” at NIT, Warangal from 29.05.2023 to 02.06.2023.
- v. Dr. K. Ravi Prakash Babu has participated in the one-week short-term course titled “Electric Vehicle Technology" organized by the Thermal Systems Laboratory at the Department of Mechanical Engineering, NIT Rourkela (Odisha) India from 29.05.2023 to 03.06.2023.
- vi. M.Radhadevi has participated in one week High End Research Training Program on “Material Science in Additive Manufacturing” at NIT, Warangal from 12.06.2023 to 18.06.2023.
- vii. Ch.Vidya successfully has completed the course on Fundamentals of AI & ML: Introduction to Artificial Intelligence” by Infosys Springboard on 24.06.2023.

d) Faculty Development Programmes:

- i. P.Mastan Rao has participated FDP on “Recent advancements in Machine Learning and Artificial Intelligence” at Godavari Institute of Engineering and Technology(GIET) from 23.01.2023 to 28.01.2023.
- ii. Dr.P.Phani Prashanthi, K.Srividya, E.Kavitha, M. Radha Devi, Ch Mohan Sumanth, J.Surendra, M.Somaiah Chowdary ,V.Sravani have completed One Week FDP on “Thesis and Research Paper Writing” by NITTTR Kolkata organized at PVPSIT from 30.01.2023 to 03.02.2023.
- iii. Dr.M.Rajyalakshmi, Dr.K.I.V.Vandana have successfully participated in the FDP on “Yoga in Daily Life” organized by CSE Dept in association with IQAC from 13.02.2023 to 17.02.2023.

- iv. Dr.B.Raghu Kumar participated in One Week FDP on “Applications of Computer Vision using Deep Learning” at Seshadrirao Gudlavalleru Engineering College from 20.02.2023 to 25.02.2023.
- v. E.Kavitha, P.Mastan Rao, V.Sravani, Dr.Sd.Abdul Kalam have participated in “A One-day FDP on Effective Teaching Learning Methodology for the Pluralistic Classroom” organized by FED at PVPSIT 25.02.2023.
- vi. Vidya Chaparala has successfully completed the NPTEL Course of "Introduction to Professional Scientific communication" from Jan-Feb 2023.
- vii. Dr. K. Ravi Prakash Babu has participated in the one week online FDP on "Applications of Artificial Intelligence & machine learning in Mechanical Engineering" organized by Dept. of Mechanical Engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru from 06.03.2023 to 10.06.2023.
- viii. Dr. K. Srividya has successfully completed the NPTEL Course of "Principle of Casting Technology" from Jan-March 2023.
- ix. Vidya Chaparala has successfully completed the course of "Basics of Python" organized by Infosys Springboard on 17.03.2023.
- x. Dr.K.Srividya, Dr.M.N.SwapnaSri, Dr.P.Anusha have participated in one day FDP on "Research Development & Fund Grant" organized by Department of IT, PVPSIT, Vijayawada on 20.03.2023.
- xi. M.Radhadevi has successfully completed NPTEL – AICTE FDP course on "Introduction to Internet of Things” from Jan - April 2023.
- xii. E.Kavitha, V.Sravani have successfully completed the NPTEL – AICTE FDP course on "Human Behaviour” from Feb - April 2023.
- xiii. Dr. K. Ravi Prakash Babu has participated in the 7 Day National Level Online Faculty Development Program on "Outcome Based Education (OBE)" organised by Nirmala College, Muvattupuzha in association with The Kerala State Higher Education Council. from 10.05.2023 to 17.05.2023.
- xiv. Dr. K. I. V. Vandana, Dr.P.Anusha, Dr.M.Naga Swapna Sri have participated in the five day online FDP on “Recent Advances in Mechanical Engineering” at Nadimpalli Satyanarayana Raju Institute of Technology (A), Visakhapatnam from 05.06.2023 to 09.06.2023.
- xv. Dr.P.Anusha, E.Kavitha, T.Srinag, Dr.M.Naga Swapna Sri, Ch. Mohan Sumanth, V.Sravani, Dr. K. Ravi Prakash Babu have participated in One week FDP on “Advancements in Mechanical Engineering” at Lakireddy Balireddy College of Engineering, Mylavaram from 19.06.2023 to 24.06.2023.

e) Guest Lectures: NIL

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

g) Conferences:

- i. **E.Kavitha**, Dr.K.Sivaji Babu, Dr.M.R.S.Satyanarayana has participated and presented a paper on “Hydrothermal Impact on Mechanical Behavior of Carbon T300 and S Glass Hybrid Fiber-Reinforced Composites Under Various Staking Sequences” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
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4. Publications by the faculty (National/International Journals / Conferences):

a) Scopus indexed journals:

- i. **M. Naga Swapna Sri**, P. Anusha, Vittel Rao, Rajendranrao, Krishnajirao, Manickam Selvaraj, B. Muthuvel, N. Karthikeyan, Experimental Investigation of Material Removal Rate Parameters in ECM for Aluminum Hybrid Matrix Composites Using the RSM Technique, Advances in Materials Science and Engineering, Volume-2023, Special Issue, 8406751, ISSN: 1687-8434, February-2023, Scopus Indexed
- ii. G. Vijay Kumar, **P. Gopalakrishnaiah**, M. Radha Devi, T. Vishnu Vardhan Balram Yelamasetti, Multi parameter optimization in end milling of S-glass fiber reinforced polymer composite using Taguchi technique coupled with Grey Relational Analysis, International Journal on Interactive Design and Manufacturing (IJIDeM), Volume-17, Issue-2, ISSN : 1955-2513, March-2023, Scopus Indexed
- iii. Raviteja Surakasi, Yenda Srinivasa Rao, **Sd. Abdul Kalam**, Naziya Begum, Emissions and Performance of Diesel Engines Correlated with Biodiesel Properties, Journal of Engineering, Hindawi, 2023, Article no: 5274325, Pg: 1-4, ISSN: 2314-4904, April-2023, Scopus Indexed.
- iv. **Kode Srividya**, Seelam Pichi Reddy, Kurra Hari Prasad, Naga Sai Rama Krishna Thati, Kilari Snehlita, Unnam Sai Pranay, Naga Venkata Sairam Yellapragada, Optimization of Process Parameters for Preparation of Lanthanum Hexa-Aluminate Powders Using Combinatorial Approach of Taguchi-GRA and ACO Methods, International Information and Engineering Technology Association (IIETA) Annales de Chimie - Science des Matériaux, Volume-47, Issue-1, ISSN: 1958-5934, Pp: 43-50, April-2023, Scopus Indexed
- v. **P. Phani Prasanthi**, Jaya Madhuri Mandava, V. V. Venu Madhav, Kuldeep K. Saxena Ch. Sri Chaitanya Chander Prakash, Iman Kareem Kadhim, Manoj Kumar Agrawal, Computational analysis for flexural response of composite laminates using finite element method, International Journal on Interactive Design and Manufacturing (IJIDeM), Volume-17, Issue-2, Pp:1-7, ISSN: 1955-2513, May-2023, (Scopus Indexed)
- vi. **Anusha P**, M.Naga Swapna Sri, Vijayakumar, S, Jeyakrishnan, S Saxena, K.K., Design and optimization the wear characteristics for Al7178/TiO2/B4C/FA central hybrid composite, International Journal on Interactive Design and Manufacturing (IJIDeM), ISSN: 1955-2513, May-2023, Scopus Indexed

- vii. Bhiksha Gugulothu, K. Bharadwaja, S. Vijayakumar, T. V. Janardhana Rao, **M. Naga Swapna Sri**, P. Anusha, Manoj Kumar Agrawal, Modeling and parametric optimization of electrical discharge machining on casted composite using central composite design, International Journal on Interactive Design and Manufacturing (IJIDeM), ISSN: 1955-2513, May-2023, Scopus Indexed

b) SCI/SCIE/ESCI indexed journals:

- i. **P.Phani Prasanthi**, M.S.R.Niranjan Kumar, M.Somaiah Chowdary, V. V. Venu Madhav, Kuldeep K Saxena, Kahtan A. Mohammed, Muhammad Ijaz Khan, Gaurav Kumar, Sayed M Eldin, Mechanical Properties of Carbon Fiber Reinforced with Carbon Nanotubes and Graphene Filled Epoxy Composites: Experimental and Numerical Investigations, Materials Research Express, IOP Publishing Ltd, February-2023, ISSN / eISSN:2053-1591, **SCI Indexed**
- ii. **M. Naga Swapna Sri**, P. Anusha, V.V.Venu Madhav, Kuldeep Kumar Saxena, Ch. Sri Chaitanya, R Haranath Bharath Singh, Influence of Cu particulates on a356MMC using frequency response function and damping ratio, Advances in Materials and Processing Technologies, ISSN: 2374-0698, February-2023, **SCIE Indexed**
- iii. **Phani Prasanthi P**, N Raghu Rama, V Venu Madhav, Manoj Kumar Agrawal, Prasanta Kumar Mohanta, Kuldeep K Saxena, Ch Sri Chaitanya, Karrar hazim Salem, Barno Sayfutdinovna Abdullaeva, Tensile Behaviour of Natural Polymer Composite Materials at Ambient and Elevated Temperatures, Indian Journal of Engineering & Materials Sciences, Volume-30, Pp- 331-337, ISSN: 0975-1017, April-2023, **SCIE Indexed**
- iv. **Phani Prasanthi P**, K. SivajiBabu, M.S.R. Niranjan Kumar (2023): Influence of cellulosic particle fillers on mechanical properties of hemp fibre-reinforced composites, Advances in Materials and Processing Technologies, DOI: 10.1080/2374068X.2023.2215593, ISSN: 2374-0698, Pp: 1-15, May-2023, **SCI Indexed**
- v. **Phani Prasanthi. P**, V. V. Venu Madhav, C. S. Chaitanya, V.V. Spandana, Kuldeep Kumar Saxena, Rajesh Deorari, Abhishek Chand Thakuri, Karrar Hazim Salem & Kahtan A. Mohammed (2023): Force and Roughness Analysis for Natural Bagasse Fiber Reinforced Composites Under Milling Machining: An Experimental Study, Advances in Materials and Processing Technologies, DOI: 10.1080/2374068X.2023.2204774, May-2023, **SCI Indexed**
- vi. **Vidya Chaparala**, Ravi Kiran Sastry Gadepalli, Phani Prasanthi Parvathaneni, A molecular dynamics approach for a parametric study of colloidal suspension aggregation kinetics, International Journal on Interactive Design and Manufacturing (IJIDeM), Volume-17, Issue-2, Pp:1-11, ISSN: 1955-2513, May-2023, **ESCI Indexed**

c) IEEE/Springer journals: NIL

d) UGC/other journals:

- i. **T J Prasanna Kumar**, Y Ayyappa, M Kiran Kumar, SK Roshan, P Tharun Kumar, Flow Simulation and Experimental Comparative Study of Aerodynamic Forces on NACA 2415 Airfoil Scaled Model, Journal of Aerospace Engineering & Technology (JoAET), Volume-12, Issue-3, ISSN: 2231-038X, Pg:34-54; February-2023, , Others

- ii. **K. I. Vishnu Vandana**, Cutting temperature of graphene-reinforced ceramic cutting tool inserts during dry turning of hardened steels, Multi-Disciplinary Science Journal, Volume-5, Issue-3, Pp:1-7, ISSN: e2023038, May-2023, Others
- iii. M. Venkateswarlu, **M.V.H. Satish Kumar**, G. Dharmaiah,” Mathematical Analysis of Gold, Platinum, and Magnetite Nanoparticle Shapes on Unsteady Radiative Flow of Nanoliquid along an Infinite Vertical Flat Plate in the Proximity of Convective Boundary Condition, Diffusion Foundations and Materials Applications, ISSN: 2674-029X, Vol. 33, pp 3-21, April 2023. **Others**
- iv. **Mastan Rao Papabathina**,Siva Sankara Babu Chinka,Nageswara Rao Putta,Murkonda Vijaya, Effect of Graphite on Mechanical and Tribological Properties of Al6061/SiC Hybrid Composites, Annales de Chimie - Science des Matériaux, International Information and Engineering Technology Association (IIETA), Volume-47, Issue-3, Pg 125-132, ISSN: -151-9107, June-2023. **UGC Journal**

e) Conference Proceedings:

- i. **U. Koteswara Rao** , Tarun kumar has participated and presented a paper on “Collaborative Learning Robots” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- ii. **I Manoj Kumar**, V L Krishnan, V Sravani, G Pavan Kumar, K Kiran Kumar has participated and presented a paper on “Design of IOT Based System for Ensuring Reliable Functioning of Solar Powered Unmanned Aircrafts” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- iii. **Mr. Koteswara Rao Unnam**, Bommu Tarun Kumar, Karra Jagadeesh, Kandula Naveen, Mallampalli Kushwanth has participated and presented a paper on “A Novel PCB prototype for smart garden” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- iv. **Sd. Abdul Kalam**, Sk. Ziaavulla, Sk. Abdul Rahman, Sk. Karim, R. Santhosh has participated and presented a paper on “Strength Analysis of Aircraft Composite Structure due to Air loads during flight by Finite Element Method" at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- v. **T J Prasanna Kumar**, Y Ayyappa, M Kiran Kumar, Sk Roshan, P Tarun Kumar has participated and presented a paper on “Comparative Analysis of Semi Monocoque Structured Aircraft Nose Cone Made of Different Titanium Graded Alloys at different operating conditions" at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- vi. Sivananda Uddagiri Aishwarya Nalluri Pradeep Sathivada Kali Prasad Potluri, **P.Mastan Rao** has participated and presented a paper on “Design of a Self Guarded Drone and

- Analysis Using Fusion 360” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- vii. **Dr. M.Naga Swapna Sri**, Dr.P.Anusha, Rumalla Haranath, Dr.K.Srividya, Neelapu Nikhil Babu, Pajjuru Jaswanth, Rakesh Nimmakuri, Vineeth Pamu Rahul, Muppalla Praveen Chowdary has participated and presented a paper on “Design and Fabrication of Total Emissivity Measuring Apparatus” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- viii. **Dr. K. Srividya**, Ch. Ravi Kiran, B. Raghu Ram, B. Ravindra Naik, K. Varun Sai has participated and presented a paper on “New Approach of Generation of Power by Using Wind Energy” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- ix. **Dr.P.Anusha**, Dr.M.Naga Swapna Sri, Dr.K.Srividya, V.Sravani, Vemulapalli Chinmai, Saggurthi Ramadevi, Shaik Khiser Siddiq, Tellam Venkanna babu, Muppalla Praveen Chowdary has participated and presented a paper on “Colour Importance in Radiation Heat Transfer-An Experimental Work” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- x. Ch.Mahesh , D.Sai Charan ,Abdul Sattar ,E.Rupesh Tarun, **Ch. Mohan Sumanth** ,Dr. P. Phani Prasanthi has participated and presented a paper on “Analysis of Welded Structure in Finite Element Method” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- xi. **K. Venkatarao**, Ch. Lakshmi Kanth, Venkata Jayasri, Ch. Mani Kishore, Chaitanya has participated and presented a paper on “Estimation of Mechanical and Thermal Properties of Glass and Sisal Fiber Composites with Polyester Resin Matrix” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- xii. **Dr. K.I.Vishnu Vandana**, Dr. M. Rajyalakshmi, Dr. P. Phani Prasanthi, S. Chandrasekhar Tirumala Kumar has participated and presented a paper on “Two-body abrasive wear of Alumina and Alumina-graphene composite ceramic material: Effect of Speed and Sliding Distance” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- xiii. **M. Rajyalakshmi**, K. I. V. Vandana, S. Naga Kumar has participated and presented a paper on “Multi-Response Optimization of Machining factors in Pocket Milling of AA6082 Using Grey Relational Analysis” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.

- xiv. Jalli Emanuel, Prasada Raju Kanteti, **G Bala Krishna**, M Vijay Daniel, B Durga Prasad Optimization of process parameters in Friction stir welded AA6063 and AA7075 Joints, “Intelligent manufacturing and Energy Sustainability”, Pp-285-294, June-2023, Scopus
- xv. **K. Venkata Rao**, Ch Lakshmikanth, P Savithri devi, Y. Rohith, T Hari Krishna, V. Veera Manikanta, “ A study on the mechanical and thermal properties of natural fiber reinforced hybrid composites”, at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023
- xvi. **Ch Lakshmikanth**, K. Venkata Rao, K Bhagya Sri, T kiran kumar, M Manoj Kumar, V Murali Krishna” Experimental Investigation of teak wood particles and hemp fiber hybrid reinforced composites, at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023
- xvii. M. Venkateswarlu, **M. V. H. Satish Kumar**, G. Dharmiah, Mathematical study of MHD nano Carreau liquid flow in an inclined cone and wedge in the proximity of porous medium and chemical reaction, AIP Conference Proceedings 2819, 050001 (2023), <https://doi.org/10.1063/5.0137011>, JUNE 08 2023

f) Book chapters:

- i. Mulpuri Nikhitha, T. Akshita & **P. Phani Prasanthi**, Analysis of Carbon Epoxy and Glass Epoxy-Reinforced Composites Under Low Impact Velocity Using the Finite Element Method, Lecture Notes in Mechanical Engineering. Springer, Singapore., Li, X., Rashidi, M.M., Lather, R.S., Raman, R. (eds) Emerging Trends in Mechanical and Industrial Engineering. Pp:713-721; January-2023; https://doi.org/10.1007/978-981-19-6945-4_53, **Scopus Indexed**
- ii. Jaya Madhuri Mandava, Nalluri Aishwarya, Saggurthi Ramadevi, Muppalla Praveen Chowdary, Vemulapalli Chinmai & **P. Phani Prasanth**, Acoustic Analysis of Composite Materials Using Finite Element Method Lecture Notes in Mechanical Engineering. Springer, Singapore., Li, X., Rashidi, M.M., Lather, R.S., Raman, R. (eds) Emerging Trends in Mechanical and Industrial Engineering. Pp:1009-1020; January-2023; https://doi.org/10.1007/978-981-19-6945-4_77, **Scopus Indexed**

g) Books: NIL

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

- i. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, 2.Dr.Sd.ABDUL KALAM, 3. Dr.B.RAGHU KUMAR4. T. SRINAG5. Dr.P.PHANI PRASANTH., **IPR Titled TRICYCLE FOR DISABLED PERSONS”** Application Number:**386083-001**granted/Registered on 31/7/2023
- ii. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY2. MOHAMMAD SAMEER3. KANUTURI PAVAN 4. AVALA LIKHITH SAI ANISH5. KANCHARLA SIDDARDHA6. N.RAGHU RAM7. Dr.P.PHANI PRASANTHI, **IPR**

Titled: “MULTI-PURPOSE AIR PURIFIER” Application Number:376971-001, **Granted/Registered on 03/3/2023**

- iii. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, Dr. M. S. R. NIRANJAN KUMAR, Dr. P. PHANI PRASANTHI, K. THARUN KUMAR, K. PRASANTH, M. S. N. S. HARSHA, G. NIKHIL VENKAT SAI, V. SAI MADHAV, Y. KALYAN SAI, **IPR Titled: “Portable Apparatus For Rain Water Harvesting”** Application Number:351732-001, **Granted/Registered on 17/2/2023**
- iv. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY 2. N RAGHU RAM 3. Dr. PHANI PRASANTHI 4. CH. HEMANTH SIVARAM SIDHU 5. J. SREEKANTH 6. G. SUSHANK 7. G. CHINMAYA SRI 8. V. SAI MADHAV 9. Y. KALYAN SAI, **IPR Titled: “Package Lifting Mechanism For Buildings”** Application No:352185-001, **Granted/Registered on 13/1/2023**

1. Patents Published:

- i. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, DR. K. SRIVIDYA, Application number: 202341028632, Title of the patent: NON CONVENTIONAL GENERATION OF POWER BY USING WIND ENERGY, published on 16/6/2023
- ii. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, T J PRASANNA KUMAR, Dr. P. PHANI PRASANTHI, PERAVARAPU HARSHA VARDHAN KUMAR, SAMPASALA SAI, TIKKISSETTI HARISH NALLABOLU TONY, Title of the patent: MULTI PURPOSE STEPS, Application number: 202341021823, published on 21/04/2023
- iii. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY 2. KUNAPAREDDY SAI DIKSHIT 3. RAJAMOULI GUNTURU 4. JASWANTH GINNELA 5. KONAPARTHI SAI THARUN 6. Dr. P. PHANI PRASANTHI, Title of the patent: AIR COOLER WITH CHILLER, Application number: 202341005826, published on 10/02/2023
- iv. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY 2. Dr. M. S. R. NIRANJAN KUMAR 3. JAYA MADHURI MANDAVA 4. UPPALAPATI DHANUSH 5. PARVATHANENI VAMSI 6. SAYANA GOWTHAM 7. Dr. P. PHANI PRASANTHI, Title of the patent: MILK ADULTERATION TESTING DEVICE, Application number: 202341005819, published on 10/02/2023
- v. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY 2. DADI NOKESH 3. KEMBURI ASHOK 4. KOMMINENI VENU 5. BOLLU CHAITANYA 6. Dr. B. RAGHU KUMAR 7. Dr. P. PHANI PRASANTHI, Title of the patent: WET RICE GRAINS DEHUMIDIFIER, Application number: 202341005821, published on 10/02/2023
- vi. PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY 2. MOHAMMAD SAMEER 3. KANUTURI PAVAN 4. AVALA LIKHITH SAI ANISH 5. KANCHARLA SIDDARDHA 6. N. RAGHU RAM 7. Dr. P. PHANI PRASANTHI, Title of the patent: MULTI-PURPOSE AIR PURIFIER, Application number: 202341005822, published on 17/02/2023

b. Ph.Ds awarded: Nil

c. Guest lectures delivered:

- i. Dr.P.Anusha has delivered a Technical Talk to the Industry Experts on “Refrigeration Types – Industrial Applications” at ISHRAE Vijayawada Chapter, Patamata, Vijayawada on 23rd April, 2023.
- ii. Dr.P.Anusha has delivered a guest lecture on “Refrigeration Systems – Working Principles” at Dr.Lakireddy Hanimireddy Government Degree College, Mylavaram on 15th May, 2023.
- iii. Dr.B.Raghu Kumar has delivered a guest lecture on “Vibration Based Condition Monitoring of rotating equipment using Machine Learning” at Nadimpalli Satyanarayana Raju Institute of Technology (A), Visakhapatnam on 6th June, 2023.
- iv. Dr.B.Raghu Kumar has delivered a guest lecture on “Outcome Based Education” at Sree Vahini Institute of Science & Technology, Tiruvuru on 15th June, 2023.
- v. Dr.Phani Prasanthi has delivered a guest lecture on “ Scope of Mechanical Engineering after 2026” to the first year mechanical engineering students of Prasad V Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada as part of WING’s Program on April 19th 2023.
- vi. Dr.Phani Prasanthi has delivered a guest lecture on “ Gateway to claims Pathway for IP Rights Filing” to the all first year students of Prasad V Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada as part of WING’s Program on May 10th 2023.

d. Reviewers of journals:

- i. Ch Vidya reviewed a paper titled, “Experimental study and CFD Simulation of drag reduction and heat transfer enhancement in a vertical pipe using water/PIB/nano-Sio2 poly nano-fluids,” submitted to 'Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE)'.
ii. Dr.P Phani Prasanthi reviewed a paper titled, “Hydrodynamic performance and acoustic response of ship propeller,” submitted to 'Transaction on Maritime science'.
- iii. Dr.P Phani Prasanthi reviewed a paper titled, “Solution for elasatic module of three phase compositewith random distribution of coated ellipse inclusions,” submitted to 'Functional composites and structures'.
- iv. Dr.P Phani Prasanthi reviewed a paper titled, “analysis of Spectorscopic Morpological charcterization and interaction of Dye molecules for the surface modification TiB2 nano particles,” submitted to 'Journals of nanomaterials'.
- v. Dr.Abdul kalam Sayyad reviewed a paper titled, “Frame work and technical analysis of pressure vessel,” submitted to 'Journals of Aerospace engineering and technology'.

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

- i. Dr. B. Raghu Kumar, Professor & HOD of ME acted as a BOS member and attended meeting on 26.05.2023 at VVIT, Nambur.

7. MOOCs courses completed by the faculty:

- i. Dr.K.Sri Vidya completed and certified a course titled “ Principles of Casting Technology” organized by IIT Roorkee through NPTEL.
- ii. Mr.M.V.H.Sathish Kumar completed and certified a course titled “ Thermal Engineering: Basic and Applied” organized by IIT Guwahati through NPTEL.
- iii. Ms.M.Radha Devi completed and certified a course titled “ Introduction to IOT” organized by IIT Kharagpur through NPTEL.
- iv. Mr.T.J.prasanna Kumar completed and certified a course titled “ Steam and Gas Power Systems” organized by IIT Roorkee through NPTEL.
- v. Ms.V.Sravani completed and certified a course titled “ Human Behavior” organized by IIT Guwahati through NPTEL.
- vi. Ms.Vidya Chaparala completed and certified a course titled “ Introduction to Professional Scientific Communication” organized by IIT Kanpur through NPTEL.
- vii. Ms. Vidya Chaparala successfully completed and certified the INFOSYS SPRINGBOARD offered course “Introduction to AI & ML” on 24th June 2023.
- viii. Ms. Vidya Chaparala successfully completed and certified the INFOSYS SPRINGBOARD offered course “Kanban for Operations: Managing Projects Using Kanban ” on 26th May 2023.
- ix. Ms. Vidya Chaparala successfully completed and certified the INFOSYS SPRINGBOARD offered course “Moodle for Training and professional Development ” on 17th March 2023.
- x. Ms. Vidya Chaparala successfully completed and certified the INFOSYS SPRINGBOARD offered course “Basics of Python ” on 176th March 2023.
- xi. Ms. Vidya Chaparala successfully completed and certified the INFOSYS SPRINGBOARD offered course “Fundamentals of AI:ML ” on 24th June 2023.
- xii. Ms. Vidya Chaparala successfully completed and certified the INFOSYS SPRINGBOARD offered course “Machine learning Introduction” on 26th June 2023.

8. Industrial Visits:

- i. II b.tech section-1 mechanical engineering students visited G.s alloy castings surampalli on 14/3/2023
- ii. II b.tech section-2 mechanical engineering students visited G.s alloy castings surampalli on 15/3/2023
- iii. III b.tech section-2 mechanical engineering students visited Harsha Liners Ltd telaprolu on 26/4/2023
- iv. III b.tech section-1 mechanical engineering students visited Harsha Liners Ltd telaprolu on 29/4/2023

9. Students' achievements:

a) Co-curricular Activities:

- i. M.Praveen Chowdary, N.Aishwarya, Sk.Roshan, S.Pradeep, V.Chinmai, S.Rama Devi have participated in the chapter level AQUEST QUIZ competition organized by ISHRAE Vijayawada Chapter on 30th Jan,2023.
- ii. K.Sanjay Sai, G.Naga Sai Kiran of III B.Tech has participated in General Quiz event held as a part of Vignan Mahotsav 2023 at Vignans Foundation for Science, Technology & Research from 15th -17th February, 2023.
- iii. K.Sanjay Sai, M.Mohan Murali Krishna, G.Naga Sai Kiran of III B.Tech has participated in the event Tech-Quiz at VRSEC from 24th -25th February, 2023.
- iv. P.Pardha Viswanadh of III B.Tech has actively participated in the Gora Science Exhibition and received a **certificate of appreciation** at Gora Science Centre, Vijayawada on 28th Feb, 2023.
- v. N.Dhanush Reddy of III B.Tech has actively participated in the Gora Science Exhibition and received a **certificate of appreciation** at Gora Science Centre, Vijayawada on 28th Feb, 2023.
- vi. D.Naveen of III B.Tech has actively participated in the Gora Science Exhibition and received a **certificate of appreciation** at Gora Science Centre, Vijayawada on 28th Feb, 2023.
- vii. Sk.Sirajuddin of III B.Tech has actively participated in the Gora Science Exhibition and received a **certificate of appreciation** at Gora Science Centre, Vijayawada on 28th Feb, 2023.
- viii. Sk.Raggaik of III B.Tech has actively participated in the Gora Science Exhibition and received a **certificate of appreciation** at Gora Science Centre, Vijayawada on 28th Feb, 2023.
- ix. Sk.Mohammed Ismail of III B.Tech has actively participated in the Gora Science Exhibition and received a **certificate of appreciation** at Gora Science Centre, Vijayawada on 28th Feb, 2023.
- x. Jaya Prakash Reddy of III B.Tech has actively participated in the Gora Science Exhibition and received a **certificate of appreciation** at Gora Science Centre, Vijayawada on 28th Feb, 2023.
- xi. J.Yasaswi of III B.Tech has participated in the Workshop on “Hands-on Blockchain” at SRM University on 01st March, 2023.
- xii. G.Naga Sai Kiran, J.Yasaswi of III B.Tech has participated in Technical Quiz event of BECTAGON 2023-A National Level Techno Fest at Bapatla Engineering College from 3rd-4th March, 2023.
- xiii. A.Siva Rama Krishna, B.Sai Kaushik of III B.Tech have participated in the event Cadathon at A National Level Techno Cultural Fest, SITAR-2023 and **won 1st Prize** at PVPSIT on 10th & 11th March, 2023.
- xiv. Ch.Balsubrahmanyam, K.Venkateswarlu of IV B.Tech have participated in the event Cadathon at A National Level Techno Cultural Fest, SITAR-2023 and **won 2nd Prize** at PVPSIT on 10th & 11th March, 2023.

- xv. P.Sreekar, D.Naveen B.Sai Kaushik of III B.Tech have participated in the event Cadathon at A National Level Techno Cultural Fest, SITAR-2023 and **won Consolation Prize** at PVPSIT on 10th & 11th March, 2023.
- xvi. P.Praveen Kumar of II B.Tech have participated in the event Tool Search at A National Level Techno Cultural Fest, SITAR-2023 and **won 1st Prize** at PVPSIT on 10th & 11th March, 2023.
- xvii. K.Satish of III B.Tech have participated in the event Tool Search at A National Level Techno Cultural Fest, SITAR-2023 and **won 2nd Prize** at PVPSIT on 10th & 11th March, 2023.
- xviii. D.Nokesh of IV B.Tech have participated in the event Tech Quiz at A National Level Techno Cultural Fest, SITAR-2023 and **won 1st Prize** at PVPSIT on 10th & 11th March, 2023.
- xix. P.Manikanta, P.Harsha Vardhan Kumar of IV B.Tech have participated in the event Toy Mania at A National Level Techno Cultural Fest, SITAR-2023 and **won 1st Prize** at PVPSIT on 10th & 11th March, 2023.
- xx. A.Siva Rama Krishna Sai, M.Kavya Sree of III B.Tech have participated in the event Toy Mania at A National Level Techno Cultural Fest, SITAR-2023 and **won 2nd Prize** at PVPSIT on 10th & 11th March, 2023.
- xxi. J.Yasaswi of III B.Tech has participated in Engine Montage Workshop event conducted in Torque'23 at JNTU, Kakinada from 18th-19th March, 2023.
- xxii. M.Mohan Murali Krishna, G.Naga Sai Kiran, J.Yasaswi of III B.Tech has participated in the event Know your PC as a part of your Fest , A Two Day National Level Techno Cultural Symposium at Usha Rama College of Engineering and Technology on 25th March, 2023.

b) Extra-curricular Activities: NIL

c) Coursera/NPTEL Details of the students:

- i. III B.Tech. 15 students of MED completed NPTEL certification courses.
- ii. II B.Tech. 33 students of MED completed NPTEL certification courses.

d) Internships: NIL

e) Student Publications:

International Journals:

- i. P. PhaniPrasanthi 1 · Jaya MadhuriMandava 1 · V. V. VenuMadhav 2 · Kuldeep K. Saxena 3 · Ch. Sri Chaitanya 2 ·ChanderPrakash 3 · Iman Kareem Kadhim 4 · Manoj

Kumar Agrawal, “Computational Analysis for Flexural response of composite laminates Using Finite Element Method”, International Journal on Interactive Design and Manufacturing (IJIDeM), <https://doi.org/10.1007/s12008-023-01356-y>

Book Chapters:

- i. Jaya MadhuriMandava, NalluriAishwarya, SaggurthiRamadevi, Muppalla Praveen Chowdaryvemulapallichinmai , Dr. P. PhaniPrasanthi, Acoustic Analysis Of Composite Materials Using Finite Element Method, Lecture Notes in Mechanical Engineering, Springer, SCOPUS/SCI Conference Proceeding,2023.
- ii. M.Nikitha1, T.Akshital, Dr.P.PhaniPrasanthi, “Analysis Of Carbon-Epoxy And Glass-Epoxy Reinforced Composite Under Low Impact Velocity Using Finite Element Method”, Lecture Notes in Mechanical Engineering Springer, SCOPUS/SCI Conference Proceeding, 2023.

International Conferences:

- i. U. KoteswaraRao , Tarunkumar has participated and presented a paper on “Collaborative Learning Robots” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- ii. I Manoj Kumar, V L Krishnan, V Sravani, G Pavan Kumar, K Kiran Kumar has participated and presented a paper on “Design of IOT Based System for Ensuring Reliable Functioning of Solar Powered Unmanned Aircrafts” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- iii. Mr. KoteswaraRaoUnnam, BommuTarun Kumar, KarraJagadeesh, Kandula Naveen, MallampalliKushwanth has participated and presented a paper on “A Novel PCB prototype for smart garden” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- iv. Sd. Abdul Kalam, Sk. Ziavulla, Sk. Abdul Rahman, Sk. Karim, R. Santhosh has participated and presented a paper on “Strength Analysis of Aircraft Composite Structure due to Air loads during flight by Finite Element Method" at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- v. T J Prasanna Kumar, Y Ayyappa, M Kiran Kumar, SkRoshan, P Tarun Kumar has participated and presented a paper on “Comparative Analysis of Semi Monocoque Structured Aircraft Nose Cone Made of Different Titanium Graded Alloys at different operating conditions" at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- vi. SivanandaUddagiriAishwaryaNalluriPradeepSathivada Kali Prasad Potluri, P.MastanRao has participated and presented a paper on “Design of a Self Guarded Drone and Analysis Using Fusion 360” at Two Day International Conference on Recent Advances in

- Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
- vii. Dr.M.NagaSwapna Sri, Dr.P.Anusha, RumallaHaranath, Dr.K.Srividya, Neelapu Nikhil Babu, PajjuruJaswanth, RakeshNimmakuri, VineethPamu Rahul, Muppalla Praveen Chowdary has participated and presented a paper on “Design and Fabrication of Total Emissivity Measuring Apparatus” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
 - viii. Dr. K. Srividya,Ch. Ravi Kiran, B. Raghu Ram, B. RavindraNaik, K. VarunSai has participated and presented a paper on “New Approach of Generation of Power by Using Wind Energy” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
 - ix. Dr.P.Anusha, Dr.M.NagaSwapna Sri, Dr.K.Srividya, V.Sravani, VemulapalliChinmai, SaggurthiRamadevi, ShaikKhiserSiddiq, TellamVenkannababu, Muppalla Praveen Chowdary has participated and presented a paper on “Colour Importance in Radiation Heat Transfer-An Experimental Work” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
 - x. Ch.Mahesh , D.SaiCharan ,Abdul Sattar ,E.RupeshTarun, Ch. Mohan Sumanth ,Dr. P. PhaniPrasanthi has participated and presented a paper on “Analysis of Welded Structure in Finite Element Method” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
 - xi. K. Venkatarao, Ch. Lakshmi Kanth, VenkataJayasri, Ch. Mani Kishore, Chaitanya has participated and presented a paper on “Estimation of Mechanical and Thermal Properties of Glass and Sisal Fiber Composites with Polyester Resin Matrix” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
 - xii. Dr. K.I.VishnuVandana, Dr. M. Rajyalakshmi, Dr. P. PhaniPrasanthi, S. Chandrasekhar Tirumala Kumar has participated and presented a paper on “Two-body abrasive wear of Alumina and Alumina-graphene composite ceramic material: Effect of Speed and Sliding Distance” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.
 - xiii. M. Rajyalakshmi, K. I. V. Vandana, S. Naga Kumar has participated and presented a paper on “Multi-Response Optimization of Machining factors in Pocket Milling of AA6082 Using Grey Relational Analysis” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.

10. Higher Education:

- i. Alokam. Chandradeep (15501A0305) of 2015-2019 Batch joined Masters Degree in Industrial Engineering in 'The University of Texas' at Arlington.
- ii. IKKURTHI NAVEEN (18501A0335) of 2018-2022 batch got admission of Masters in Computer and Information Sciences at Northwest Missouri State University U.S.
- iii. NALAJALA KARTHIK SAI (18501A0366) of 2018-2022 batch got admission of M.S. in Computer/Information Technology Services Administration and Management at Concordia University - St. Paul, U.S.
- iv. REDDI VEERA VENKATA SAI MAHESH PRABHAKAR (18501A0384) of 2018-2022 batch got admission of M.S. in Engineering/Industrial Management at University of North Texas, Denton, U.S
- v. YADLA GOWTHAM (18501A03A7) of 2018-2022 batch got admission of M.S. in Computer and Information Sciences at Northwest Missouri State University, Maryville, U.S.
- vi. Jonnalagadda Sreekanth(18501A0337) of 2018-2022 batch got admission of MSc Engineering (Automotive) with Advanced Practice at Wrexham glyndwr university.
- vii. Rohith Kumar Atluri (18501A0306) of 2018-2022 batch got admission of MSc Aerospace Engineering at Technical University of Darmstadt, Germany
- viii. Siripurapu Naga Kumar (18501A0392) of 2018-2022 batch got admission of MSc - Industrial engineering and International Management at Hochschule Fresenius GmbH (Next Generation University), Germany.

11. Other Information:

a) Students and Staff membership of professional bodies:-

- i. Student Memberships: **ISTE- 93, IE -64, ISHRAE- 71**
- ii. Faculty Memberships: **ISTE -29, IE-03, IAENG-06, IRED -10, SFA-01, CMSI -01, ISHRAE-01, SOLETE-01**

b) Cultural / Literacy activities:- -NIL

c) Equipment Procured :-

Description	Amount
Thermal Conductivity of Metal Rod Heat Transfer through a concentric Sphere (Insulating Material)	1,15,000/-
FIB Universal Testing Machine	4,82,030/-
Saroj Rockwell cum Brinel Hardness Tester	94,400/-
ANSYS AMC	1,79,800/-
Creo Elements /Pro-E University Pius Lab Bundle	1,83,697/-

d) Alumni Interaction:

- i. Mr. Vivek (18501A0320) alumni of this college and PG student of Defence institute of advanced technology, Girinagar, Pune, Maharashtra acted as a Resource Person on 15.02.2023 to guide II B.Tech II Sem ME students on the topic of **Carrier orientation talk on GATE.**