Department of Mechanical Engineering

VELAGAPUDI RAMA KRISHNA
SIDDHARTHA ENGINEERING COLLEGE

Academic Year 2021-22 Issue - II

DEPARTMENT NEWS LETTER

DEPARTMENT NEWS LETTER
DEPARTMENT NEWS LETTER

4/4 ME student Sheikh Afeef Ahmed secured 1st place in debate at the National Integration Camp held at Raipur during 21st to 27th May 2022

3/4 ME Students secured 2nd prize for the project titled Self Recharge System using Renewable Energy in "VISION QUEST" Competition was organised by the Institute of Engineers Student Chapter

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE

Vision of the College

To nurture excellence in various fields of engineering by imparting timeless core values to the learners and to mould the institution into a centre of academic excellence and advanced research.

Mission of the College

To impart high quality technical education in order to mould the learners into globally competitive technocrats who are professionally deft, intellectually adept and socially responsible. The institution strives to make the learners inculcate and imbibe pragmatic perception and pro-active nature so as to enable them to acquire a vision for exploration and an insight for advanced enquiry.

DEPARTMENT OF MECHANICAL ENGINEERING

Vision of the Department

The Department of Mechanical Engineering endeavours to become a centre of academic excellence and research

Mission of the Department

Preparing graduates by providing a comprehensive knowledge and experience in a state of the art mechanical engineering education to become creative, inquisitive and innovative professionals in global environment.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Progress in professional career with a solid foundation in Physical and Engineering sciences.
PEO2: Solve real time engineering problems using professional knowledge and skills resulting in significant societal development.
PEO3: Demonstrate multidisciplinary skills to analyze engineering issues in a broader perspective with ethical responsibility towards sustainable development.
PEO4: Demonstrate interpersonal skills, leadership and team building to achieve organization goals and pursue lifelong learning and higher education, necessary for successful profession

PROGRAM OUTCOMES (POs)

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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.
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.
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.
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.
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.
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.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
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.
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.
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)

PSO1: Apply their Knowledge in the domain of thermal systems to solve engineering problems using modern technological tools.
PSO2: Develop and implement new ideas related to product design and manufacturing for societal and industrial needs using modern CAD/CAM/CAE tools.

WORKSHOPS/SEMINARS/FDP/CONFERENCES ORGANISED

One day Seminar on "**Industrial Internet of Things Implementation: Present Status and Challenges**" Under **AICTE Margdarshan Scheme** organized by Mechanical Engineering Department, V R Siddhartha Engineering College on 19th March 2022. Speakers : 1. Dr. V Vasu, Associate Professor Department of Mechanical Engineering, NIT, Warangal, 2. Dr. P Chandrasekhar, Technical Director - Management Consultant, 7s Technologies, Hyderabad, 3. Dr. E Suresh Babu, Asst. Professor Department of Computer Science & Engineering, NIT, Warangal and 4. Shri Girish Kumar M, Scientist 'D', CMTI, Bangalore.

Anti- Ragging, Women Grievance and Student Welfare (ARWGSW) cell, Department of Mechanical Engineering organized a program on "**Heartfulness Meditation**" in association with **Shri Ram Chandra Mission**, Vijayawada from 21st to 23rd June 2022 at 4 pm in the Mechanical Seminar Hall. In this Program K. Sridevi, preceptor explained the importance of meditation to control the thoughts and emotions for balanced life. In this first day she explained about meditation, second day about inner soul cleaning and third day rejuvenate processes which are to be practiced in the daily life. Around sixty students and 15 faculty members participated in this programme.

FACULTY PUBLICATIONS

International Journals:

1. **Ramanaiah Kandula, Srinivasa Prasad Sanaka, Ratna Prasad** , " Thermo-Physical And Fire Properties of Natural Fiber Composites for Energy Saving Applications", **Journal of Natural Fibers, March 2022, ISSN : 1544-046X, SCIE, IF 4.18.**

2. **Nandagopal Kaliappan**, **M. Balaji**, Ch. Anil Kumar, Haqqani Arshad, N. B. Prakash Tiruveedula, S. Hemavathi, Kibebe Sahile, " Machining Performance of AA2024/5Al_2O_3 Mixed Dielectric Medium", International Journal of Chemical Engineering, April 2022, **SCIE, IF 2.257.**

3. Syam Prasad Ammineni, **Ch.Naga Raju**, D.Linga Raju," Thermal degradation of naturally aged NBR with time and temperature" , Materials research express, no 6, vol 9, June 2022, **SCIE, IF 2.025.**

4. Jyoti Menghani, Akash Vyas, **Satish More**, Christ paul, Amar Patnaik, "Parametric investigation and optimization for CO_2 Laser Cladding of AlFeCoCrNiCu Powder on AISI 316", High Temperature Materials and Processes July 2021, 40, 265-280, **SCOPUS.**

5. Kolhalkar N R, **Krishnan V L**, Pandit A A, Somkuwar R G, Shaaikh J A., "Design and Performance Evaluation of a Novel End-Effector with Integrated Gripper Cum Cutter for Harvesting Greenhouse Produce", International Journal of Advanced Technology and Engineering Exploration. 2021; 8 (84): pp. 1479-1489. DOI:10.19101/IJATEE.2021.874507. November 2021, **SCOPUS.**

6. **Prakash Babu Kanakavalli**, **Satish R More** "Determining optimal parameters using Taguchi's design of experiments (DOE) for improving the quality of biogas generation process" Engineering Research Express Vol 4 (2022) ISSN: 2631-8695, May 2022, **SCOPUS, ESCI.**

7. **Satish R More**, Dhananjay V Bhatt, Jyoti V Menghani and Rahul K Jagtap, "CFD Simulation and Experimental Results Validation of Slurry Erosion Wear using Slurry Pot Test Rig", TRENDS IN SCIENCES 2022; 19(11): 4524, June 2022, https://doi.org/10.48048/tis.2022.4524, **SCOPUS.**

8. Praveen, Anchupogu, **G. Jamuna Rani**, and B. Balakrishna. "Effect of MWCNTs as nano additives in C. Inophyllum biodiesel blend (CIB20) on the performance and emission parameters of a diesel engine." *Materials Today: Proceedings* (2021), Volume 50, Part 6, 2022, Pages 2581-2586, ISSN : 2214-7853 , February 2022, https://doi.org/10.1016/j.matpr.2021.11.158, **SCOPUS.**

9. **Ponnaganti Gopinadh Chowdary**, Ch.Sri Chaitanya, Sammeta Venkata Satya Swamy Sai Charan, Avinash James, Sudanagunta Sai Naveen "Evaluation of mechanical properties of Banyan/glass fiber reinforced epoxy composites", AIP Conference Proceedings vol 2469, issue 1, PP 020007(1-7), ISSN :1551-7616 March 2022, https://doi.org/10.1063/5.0080430, **SCOPUS.**

10. M. Nageswara Rao, **K.Prakash Babu** , Kiran Kumar Dama, Santosh Kumar Malyala & Prem Kumar Chaurasiya "Flexible Manufacturing System Simultaneous Scheduling Through Palmer Heuristic Algorithm" Technology Innovation in Mechanical Engineering , Lecture Notes in Mechanical Engineering book series (LNME), ISSN : 2195-4364, pp 1013–1021, ISBN: 978-981-16-7909-4 29, April 2022, **SCOPUS.**

11. M. Nageswara Rao, **K. Prakash Babu**, T. Vijaya Kumar, Santosh Kumar Malyala & Sanjay Kumar Singh "Simultaneous Scheduling with J N D Gupta Heuristic Algorithm with Mean Tardiness" Technology Innovation in Mechanical Engineering , Lecture Notes in Mechanical Engineering book series (LNME), pp 1001–1012, ISBN: 978-981-16-7909-4 ,29, ISSN : 2195-4364, April 2022, **SCOPUS.**

12. M. Nageswara Rao, **K. Prakash Babu**, G. R. Sanjay Krishna, T. Vijaya Kumar & Upendra Rajak "Implementation of Campbell, Dudek, Smith Algorithm in Flexible Manufacturing System with Mean Tardiness" Technology Innovation in Mechanical Engineering ,Lecture Notes in Mechanical Engineering book series (LNME), pp 867–878, ISBN: 978-981-16-7909-4 ,29 , ISSN : 2195-4364, April 2022 **SCOPUS**.

13. Nageswara Rao, **K. Prakash Babu**, Kiran Kumar Dama , Santosh Kumar Malyala & Upendra Rajak "AGVs and Machines Scheduling with Campbell, Dudek, Smith Algorithm" Technology Innovation in Mechanical Engineering , Lecture Notes in Mechanical Engineering book series (LNME), pp 879–887, ISBN: 978-981-16-7909-4 ,29, ISSN : 2195-4364, April 2022 **SCOPUS.**

14. M. Nageswara Rao, **K. Prakash Babu**, Kiran Kumar Dama , Santosh Kumar Malyala & Upendra Rajak "Implementation of Jatinder N. D. Gupta Algorithm for FMS Scheduling Problems" Technology Innovation in Mechanical Engineering , Lecture Notes in Mechanical Engineering book series (LNME), pp 837–845, ISBN: 978-981-16-7909-4 ,29, ISSN : 2195-4364, April 2022 **SCOPUS.**

15. M. Nageswara Rao, T. Vijaya Kumar, **K. Prakash Babu**, G. R. Sanjay Krishna, Prem Kumar Chaurasiya & Anshul Raj "Mean Tardiness with Heuristic in Intelligent Manufacturing

System" Technology Innovation in Mechanical Engineering , Lecture Notes in Mechanical Engineering book series (LNME), pp 989–999, ISBN: 978-981-16-7909-4 ,29, ISSN : 2195-4364, April 2022 **SCOPUS**

16. M. Nageswara Rao, T. Vijaya Kumar, **K. Prakash Babu**, G. R. Sanjay Krishna & Sanjay Kumar Singh "Implementation of Priority Rules in Flexible Manufacturing System Scheduling with Mean Tardiness" Technology Innovation in Mechanical Engineering , Lecture Notes in Mechanical Engineering book series (LNME), pp 977–988, ISBN: 978-981-16-7909-4 ,29, ISSN : 2195-4364, April 2022 **SCOPUS**
17. M. Nageswara Rao, Kiran Kumar Dama , T. Vijaya Kumar**, K. Prakash Babu** & Upendra Rajak "Implementation of Branch and Bound Algorithm in FMS with Mean Tardiness" Technology Innovation in Mechanical Engineering , Lecture Notes in Mechanical Engineering book series (LNME), pp 889–901, ISBN: 978-981-16-7909-4 ,29, ISSN : 2195-4364, April 2022 **SCOPUS**
18. Kolhalkar, N., **Krishnan, V. L**., Somkuwar, R., Pandit, A., "Design of IoT-based Mechatronic Module for Real-Time Yield Monitoring During Harvesting of Greenhouse Produce and Vineyards," (2022) International Review of Mechanical Engineering (IREME), vol 16, no1, pp. 48-55.

International Conferences:

1. **N.Ravi Kumar**, "Comparison of Tensile Properties of AL5154/SIC/TIB2 with AL7075/6063 Metal Matrix composites", Virtual International Conference on Product Design, Development and Deployment (PD3 -2021), 11th & 12th September 2021 held at VIT AP.
2. **K. Srinivas**, K. Mahesh Babu, AHR Madhuri, "Performance and emission characteristics of fumigated butanol on a duel fuel mode hcci engine" E3S web of Conferences, 309, 011228(2021) ICMED 2021, October 6th-9th October 2021.
3. **Ch. Sri Chaitanya, P. Gopinadh Chowdary**, G. Chitti Babu, and R. Narasimha Rao, Development of Close Celled Cenosphere Based Polymer Syntactic Foams, 3rd Innovative Product Design and Intelligent Manufacturing Systems International Conference [IPDIMS-2021], December 30-31, 2021, National Institute of Technology Rourkela, Rourkela, India.
4. Sri Pavan Krishna A, Mohan Sai Raju, Mukesh CH.S. N. S. B, **Balakrishna Murthy.V**, " Numerical Simulations on Effectiveness of Sacrificial Piers in Scour reduction", 66th Congress

of the Indian Society of Theoretical and Applied Mechanics (ISTAM), 3rd -5th December 2021, organized by ISTAM and VIT -AP University, Amaravathi, AP, PP 74

5. Sulochana G, **Venkata Prasad Ch**, Bhatti S K, " The influence of Emission Characteristics of Hybrid Biodiesel with Nano-Particles by using CFD", International Conference on Materials and Technologies, organized by NIT Raipur, India on 28th-29th January 2022.

6. Hari Krishna Chirala, **Nagaraju Cherukuri**,Sai Saran K and Davidson MJ, "Effect of ZrO_2 on the Heterogeneous distribution of Hardness in Upsetting Test of Al% ZrO_2 using Experimental and Finite Element Investigations", International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences (ICFAMMT 2022) , 20th-22nd January , 2022 at IITRAM Ahmedabad, Gujarat, India

7. **A. N. Phani Deepthi**, V. Vasu, S. Srinivasa Prasad, Kethan Bayaneni "Experimental investigation of thermal conductivity for human dermal layers", International Conference on Advances in Mechanical Engineering, Industrial Informatics and Management, Department of Mechanical Engineering, National Institute of Technology, Raipur, 25th-26th February 2022

8. **Srinivasa Prasad Sanaka**, Mounica Sunkara, Keziya Mulupuri, Anusha Bayana," Development of Cost -Effective High-Pressure Water Pump Fire Fighting System, " International Conference on Advances in Mechanical Engineering, Industrial Informatics and Management, Department of Mechanical Engineering, National Institute of Technology, Raipur, 25th-26th February 2022, PP 26.

9. **K. Ramanaiah**, Srinivasa Prasad SAnaka, Chilaka Moses Aravind, K. Hemachandra Reddy, " Experimental and numerical investigations of sustainable thermal insulation competence of natural fiber reinforced composite", International Conference on Advances in Mechanical Engineering, Industrial Informatics and Management, Department of Mechanical Engineering, National Institute of Technology, Raipur, 25th-26th February 2022.

10. **Srinivasa Prasad Sanaka**, N. Pardhasaradhi, K. Durga Rao, Sravani Vemuri, "Analysis on structural and Acoustic Response of Marine Propeller", International Conference on Advances in Mechanical Engineering, Industrial Informatics and Management, Department of Mechanical Engineering, National Institute of Technology, Raipur, 25th-26th February 2022, PP 44.

11. **M. Sumalatha**, Kesava Rao VVS, Karuna Kumar G, Surya Vamsi S " Investigation of Tensile, Hardness and Corrosion Tests on TIG Welded Martensitic Stainless Steel (AISI 410) Plates", International Conference on Advances in Mechanical Engineering, Industrial Informatics and

Management, Department of Mechanical Engineering, National Institute of Technology, Raipur, 25th-26th February 2022.

12. **Venkateswarlu Alapati**, Naga Bhardwaj purighalla, Sri Charan Sanagalaa, Gaurav S Kumar "Semi- Automatic Farming", International Conference on Advances in Mechanical Engineering, Industrial Informatics and Management, Department of Mechanical Engineering, National Institute of Technology, Raipur, 25th-26th February 2022, PP 30

13. **Vemuluri Vasu, A. N. Phani deepthi,** "Performance analysis of domestic refrigeration system using Zinc Oxide Nano lubricant", International Conference on Advances in Mechanical Engineering, Industrial Informatics and Management, Department of Mechanical Engineering, National Institute of Technology, Raipur, 25th-26th February 2022, PP50

14. G. Chittibabu, **Ch. Sri Chaitanya**, Babar Pasha Mahammod, Manoj Gupta, Syed Ismail and R. Narasimha Rao, Tribological Behaviour of Titanium Carbide Reinforced Aluminum Composite Materials, International Conference on Smart Materials and Structures [ICSMS - 2022], February 15-16, 2022, Vasireddy Venkatadri Institute of Technology, Nambur, India.

15. **Ch. Sri Chaitanya**, G. Chittibabu, Babar Pasha Mahammod, T. Bharath Kumar, A. Charan Reddy, C. Pranaya Joshi, and R. Narasimha Rao, Compression Deformation Models of Cenosphere Reinforced Polymer Syntactic foams, International Conference on Smart Materials and Structures [ICSMS - 2022], February 15-16, 2022, Vasireddy Venkatadri Institute of Technology, Nambur, India.

16. Peddakondigalla Venkateswara Babu, K. Satyanarayana, V. Kiran Kumar, SK. Abdul Saleem, **Ch Sri Chaitanya**, Syam Kumar Chokka, Syed Ismail, Effect of Graded layers on Void formation in Metal Based Functionally Graded Materials, International Conference on Smart Materials and Structures [ICSMS - 2022], February 15-16, 2022, Vasireddy Venkatadri Institute of Technology, Nambur, India.

17. Lakshmipathi Rao. N, Raju. M, **Balaji.M**, Nagarjuna. U, Sudheer D," Fabrication and analyzing the properties of brick which is made of shredded surgical masks and ground granulated blast-furnace slag", International conference on Recent Trends in engineering Technologies and Engineering -ICRTET-2022, Organized by International Institute of research in Multidisciplinary -skill development trust , on 24th April 2022.

18. K.Nikhil Chand, **V.V.Venu Madhav**, P.Phani Prasanthi, Ch. Sri Chaitanya, A.V.S.S.K.S. Gupta, V. V. Spandana, "Fracture behavior of a composite lamina under Mechanical, Thermal and

Thermo- Mechanical loading conditions", 5 th International Conference on Design, Analysis, Manufacturing and Simulation ICDAMS-2022, organized by Saveetha School of Engineering, Chennai, 18-19th May 2022

19. D. Yaswanth Sai, **V.V.Venu Madhav**, P.Phani Prasanthi, Ch. Sri Chaitanya, A.V.S.S.K.S. Gupta, V. V. Spandana, "Fracture behavior of a Rectangular Composite lamina with a Virtual Crack Under Different Loading Conditions", 5 th International Conference on Design, Analysis, Manufacturing and Simulation ICDAMS-2022, organized by Saveetha School of Engineering, Chennai, 18-19th May 2022.

GUEST LECTURES DELIVERED BY FACULTY

Dr.C.Mahesh delivered a guest lecture on "**Performance of Engines and Turbines for Mechanical Engineering Students**" at Anantha Lakshmi Institute of Technology and Sciences, Anantapur on 3rd March, 2022**.**

WORKSHOPS/SEMINARS/FDP ATTENDED BY FACULTY

1. **Dr.Ch.Chaitanya** attended a Webinar on "**Design Thinking,Critical Thinking and Innovation Design**" at VRSEC ,Vijayawada on 22nd January 2022.
2. **Dr.V.Venu Madhav** attended a FDP on "**3D&4D Printing Applications**" at NITTTR Chandigarah from 17th to 21st January 2022.
3. **V.Sudheer Kumar** attended FDP on "**Post Covid Green Sustainable Development Practices in manufacturing Industries**" at CVR College of Engineering, Telangana State from 17th to 21st January 2022.
4. **Dr. V.V.Venu Madhav, Dr. Ch.Chaitanya** attended FDP on "**Advanced Manufacturing of Biomedical Devices for Precision Health Technologies**" at IIT Tirupati from 24th to 28th January 2022.
5. **Dr. S.Srinivasa Prasad, Dr. K.Ramanaiah** attended a Webinar on "**Strategies of Stress Free Healthy Life (SSFHL-2022)**" NIT Rourkela from 7th to 11th February 2022.
6. **G.Srivalli** attended a national FDP on "**UHV Refresher 1, Part 1**" from 7th-11th February, 2022 at AICTE , NEW DELHI.
7. **Dr. V.V.Venu** Madhav attended a national FDP on "**Electrical Vehicle Technology**" from 14th to 18th February at NITTTR, Chandigarh.

8. **V. Sudheer kumar** attended a Seminar on **Electric Vehicle Technology** from 16th-18th February, 2022 at VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad.

9. **Ch.Venkata Prasad** attended a international FDP on "**Recent Advances in Materials and Challenges in Manufacturing Techniques**" from 7th to 19th February 2022 at JNTUK.

10. **Ch.Venkata Prasad** attended a national seminar on "**Recent Advances in Manufacturing Processes for Industrial Applications**" from 21st-26th March, 2022 at NIT Surathkal.

11. **Dr. V.L.Krishnan, Dr. V.Sridhar** attended a national FDP on "**Industry 4.0 and Smart Manufacturing**" 19th-26th February, 2022 at NIT Warangal.

12. **Dr. V.Sridhar** attended a national FDP on "**Industry 4.0 and Smart Manufacturing**" 19th-26th February, 2022 at NIT Warangal.

13. **V. Sudheer Kumar** attended a national seminar on "**Additive Manufacturing**" on 26th February, 2022 at Nadar Saraswathi College of Engineering and Technology, Theni.

14. **Dr. Ch.Chaitanya, Dr. A.Venkateswarlu** attended a national workshop on "**Material Characterization Techniques**" from 25th-26th February, 2022 at VIT-AP.

15. **Dr. Satish R More, G.Srivalli, Dr. Ch.Chaitanya** attended a national FDP on "**Scientific Educational Practices**" from 17th-19th March, 2022 at VRSEC,Vijayawada.

16. **B.Supraja Reddy, Dr. M.Sumalatha** attended a national FDP on "**Artificial Intelligence/ Machine Learning for Mechanical Engineering Problems**" from 21th-26th March, 2022 at Shri Vishnu Engineering College for Women, Bhimavaram.

17. **Dr. V.V.Venu Madhav, Dr.Ch.Chaitanya** attended a national FDP on "**Progressive Trends In Mechanical Engineering**" from 28th March to 1st April 2022 at Andhra Loyola Institute Of Engineering And Technology, Vijayawada..

18. **Dr. V.Bapi Raju** attended a national FDP on "**Programming, Data Structures and Algorithms using Python**" from Jan-Mar, 2022 at NPTEL-AICTE.

19. **Dr. Ch.Chaitanya** attended a national FDP on "**Design Thinking**" from 4th-8th April 2022 at VRSEC, Vijayawada.

20. **Dr. V.V.Venu Madhav, Dr. M.Sumalatha, M.Ashok Chakravarthy, K.Siva Prasad** attended industry training program on "**Part Programming on CNC Turning center with FANUC system control**" from 20th-25th June, 2022 at Kusalava International Limited, Telaprolu, Krishna District (A.P.)

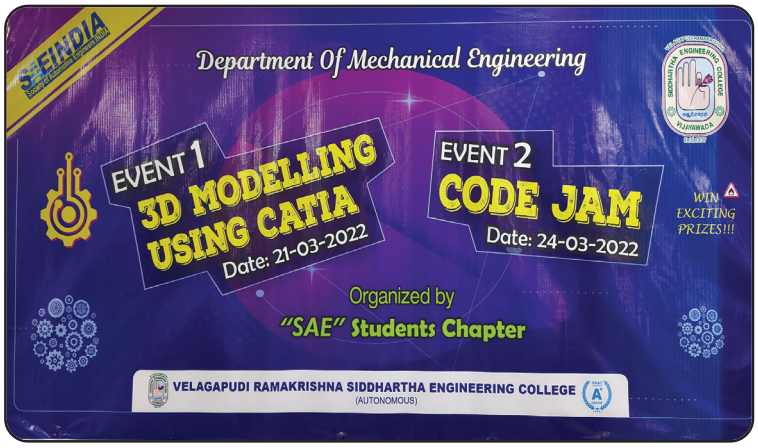
SKILL TRAINING PROGRAMS ATTENDED BY THE FACULTY

1. A One Week training on Basics of Programmable Logic Controllers (PLC)" from 13-06-2022 to 18-06-2022 organized by Department of Electronics and communications Engineering, V R Siddhartha Engineering College Vijayawada.

2. A One Week industry training on "Part Programming on CNC Turning center with FANUC system control" from 20th - 25th June, 2022 at Kusalava International Limited, Telaprolu, Krishna District (A.P.).

DEPARTMENT PROFESSIONAL ASSOCIATION/CHAPTER EVENTS

Event on "**3D Modeling using CATIA**" was organized by the **SAE** Student Chapter Mechanical Engineering Department, VR Siddhartha Engineering College, on 21/03/22.



Event on "**CODE JAM**" was organized by the **SAE** Student chapter Mechanical Engineering Department, VR Siddhartha Engineering College, on 24/03/22.

A Technical Model Competition "**VISION QUEST**" was organized by the **Institution of Engineers INDIA (IEI),** Students' chapter Mechanical Engineering Department, VR Siddhartha Engineering College, on 18/04/22.

A Webinar on "**Business Model Canvas**" was Organized by Department of Mechanical Engineering in association with **Institution Innovation Council** on 30/05/2022, Speaker: Dr. Venkata Kiran Kumar Ravi, Asst. Professor, VRSEC, Vijayawada.

Guest Lecture on "**Development of Leadership skills and Project Management**" was organized by the **ASME** Mechanical Engineering Department, VR Siddhartha Engineering College, on 13/05/22, Speaker: Mr. CH. Sreenivasa Rao, Group Project Manager, Infosys, Hyderabad.

Guest Lecture on "**Advanced Technologies in Aircraft Engine: Design, Manufacturing and Maintenance**" was organized by the **ASME** Mechanical Engineering Department VR Siddhartha Engineering College, on 09/04/22, Speaker: Mr. N. Manoj, Staff Engineer, GE India, Bangalore.

DOCTORAL DEGREES SUBMITTED

S.No	Name	Designation	Qualification	University/ Institute
1	Sri.K.Siva Prasad	Assistant Professor	M.Tech	Dr. Y S R ANU College of Engineering and Technology, Guntur
2	Mrs. B. Supraja Reddy	Assistant Professor	M.Tech	Dr. Y S R ANU College of Engineering and Technology, Guntur

On Going Research (Doing Ph.D)

Sl. No.	Name of the Faculty	Year of Registration	Name of the University
1	Sri K. Ravi Kumar	2013	JNTU Kakinada
2	Sri P. Sateesh Kumar Reddy	2011	ANU Guntur
3	Sri V. Sudheer Kumar	2011	ANU Guntur
4	Sri M. Rajesh	2017	KLEF Vaddeswaram
5	Sri Ch. Venkata Prasad	2012	JNTU Kakinada
6	Sri P. Gopinath	2020	NIT Warangal
7	Smt. G. Srivalli	2016	ANU Guntur
8	Smt. A.Phani Deepthi	2019	Annamalai University
9	Sri V. Vasu	2019	NIT Wrangal
10	Sri M. Ashok Chakravarthy	2012	JNTU Kakinada
11	Sri G. Sreedhara Babu	2018	AU Visakhapatnam
12	Sri G. S. Pavan Kumar	2018	Annamalai University

GUIDING Ph.D

Sl. No	Faculty Name	Designation	Name of the scholar	University & Year of Registration
1.	**Dr. A.V. Ratna Prasad,**	Professor & Principal	G. Vijay Prakash	ANU Guntur 2011
			P. Srinivaas Rao	KLEF, 2013
			G. Pavan Kumar	Annamalai 2018
2.	**Dr. N. VijayaSai**	Professor & H.O.D	U. Hari Babu	ANU, 2011

3.	**Dr. V. Bala Krishna Murthy**	Professor	N. Vijeta	JNTUK, 2010
			S. Rambabu	JNTUA, 2011
			Y. Sai Babu	JNTUA, 2012
			V. Mohan Manoj Gupta	JNTUK, 2016
4.	**Dr. N. Ravi Kumar**	Professor	Ch. Ranga Rao	JNTUK, 2014
			G.V.N.B. Prabhakar	JNTUK, 2015 (Awarded 10-5-2022)
5.	**Dr. Ch. Naga Raju**	Professor	K. Ravi Kumar	JNTUK, 2013
			V. Sudheer Kumar	ANU, 2011
			P. Sateesh Kumar Reddy	ANU, 2011
			A. Syam Prasad	JNTU K 2016
			U. KoteswaraRao	NIT Warangal, 2010
			Ch. Rama Krishna	JNTUK, 2016
6.	**Dr. S.S. Prasad**	Professor	Smt. A.N. Phani Deepthi	Annamalai University, 2019
7.	**Dr. G. DilliBabu**	Associate Professor	Obulesu Taperla	JNTUK, 2016
			C.Ramanjaneyulu	Annamalai University, 2020
			B. Yedukondala Rao	Annamalai University, 2019
8.	**Dr. K.N.M. Rao**	Associate Professor	M. Peraiah	JNTUK, 2016
			V Vasu	NIT Warangal,2019
9.	**Dr. V.L.Krishnan**	Associate Professor	K. Raja Satyanarayana	KLEF, 2014
			Nilesh Kolhalkar	KLEF, 2016

RESEARCH AND DEVELOPMENT PROJECTS SANCTIONED

S. No	Title of the Project& File No.	Funding Agency & Scheme	Amount (in Lakhs Rs.) & Duration	Sanctioned month/ year	Name of PI/Coordinator & Co-Investigators
1	Fabrication & Performance Analysis of Ventilation Assist Unit	IMEDS Visakhapatnam-530031(Subsidiary of AVANTEL Ltd., Hyderabad)	Rs.10.50 Lakhs	22nd Feb 2022	**Dr. N Vijaya Sai** (Mentor), Prof & Head (ME). **Dr.S Sreenivas Prasad** (PI), Professor (ME). Dr.A Vijay Shankar (Co-PI), (Asso Prof, Dept. of ECE, VRSEC)

RESEARCH AND DEVELOPMENT PROJECTS APPLIED

S. no.	Principal investigator	CO Investigator	Title of the project	Funding agency	Project Cost (in Lakh Rupees)	Application number/ Ref No.	Applied date	Project Duration (in Years)
1	Dr. K Nagamalleswara Rao	Dr. S Srinivasa Prasad	Development and Study of Variable Throat Area Convergent-Divergent Nozzle	DRDL Hyderabad	8.91		04th April 2022	12 Months
2	Dr. G Dilli Babu	Dr. Chaitanya Ch.	Influence of manufacturing variances on the progressive failure prediction of composite structures using classical laminate thery.	SERB DST	29.94	CRG/2022/007442	02nd May 2022	3 years
3	Dr S Srinivas Prasad	Dr K N M Rao	Data assimilation for fluid dynamics using experimental and computational data	ISRO - RESPOND	28.81	RES-VSSC-2022-001:	15th May 2022	3 years

PATENTS APPLIED, PUBLISHED AND AWARDED

S.No	Name of the Faculty	Title of the Patent	Year of application	Ref. No	Status
1.	Dr. V.V.Venu Madhav Dr. Ch. Sri Chaitanya V.V. Spandana	Excess Water Removing Techniques from the Crop Fields	30/06/2022	202241037656	Filed
2.	Karteek Navuri, Dr. Mallapuram Bala Chennaiah Dr. M. Sumalatha Devara Srinu	Integrated Airless Wheel for Motor cycle	26/06/2022	366794-001	Filed
3.	A.N.Phani Deepthi	A Method of preparation of biofuel	08/06/2022	202241032373	Published on 10/06/2022

4.	Karteek Navuri, Dr.Ch. Nagaraju Dr. K. Venkata Rao Putti Venkata SivaTeja	Negative stiffness tyre	04/03.2022	359848-001	Filed

CONSULTANCY DETAILS

S.no	Nature of the work	Agency to which consultancy is offered	Revenue earned
1.	Thermal Conductivity	U.Mounika, Roynagar, Gannavaram, Krishna District	2,360
2.	Thermal Conductivity	Abbun Divakar sai, Vijayawada	2,360
3.	Tensile Testing	Usha Rama College of Engineering and Technology, Telaprolu	1,475
4.	Tensile Flexural and Impact Testing	G.Teja Narendra Kumar, Ramachandra college of Engineering,Eluru	4,130
5.	Thermal Conductivity	M.Sri Saketh, NRPRD, Gadhinagar	2,360
6.	Flexural Testing	D.Mahesh Chandu, VKR, VNB & AGK College of Engineering, Gudivada	4,012
7.	Tensile Testing	A.Sudha, VKR, VNB & AGK College of Engineering, Gudivada	4,012
8.	Impact Testing	J.M.N.S Srinivas, VKR, VNB & AGK College of Engineering, Gudivada	2,006
9.	3D Printing Supporting Frame	S.Vijaya Krishna, EEE Department, VRSEC, Vijayawada	501
10.	Tensile Flexural and Impact Testing	Ch.Shyam, RVR & JC Engineering College, Gutur	2,832
11.	Wear Test	Mr.K.Prosool, Usha Rama College of Engineering and Technology, Telaprolu	3,540

12.	Micro Structure	A.Mazid Baig, Usha Rama College of Engineering and Technology, Telaprolu	2,832
13.	Composite testing	Ch.Naga Sai, Usha Rama College of Engineering and Technology, Telaprolu	2,832
14.	Materials	Principal, PVPSIT, Kanuru, Vijayawada	10,030
15.	Wear Test	M.Sriharsha, Usha Rama College of Engineering and Technology, Telaprolu	1,416
16.	Composite Materials	R.Ranjith Kumar, MIC College of Technology, Kanchikacharla	4,602
17.	Composite Materials	M.Sriharsha, Usha Rama College of Engineering and Technology, Telaprolu	1,770
18.	Composite Materials	P.Venkateswara Babu, Assistant Professor, VNIT Nambur	1,416
19.	Composite Materials	Ch. Naga Sai, Usha Rama College of Engineering and Technology, Telaprolu	2,124
20.	Composite Materials	Sk.Sahid Babu, Andhra Layola Institute of Engineering, Vijayawada	1,947
21.	Tensile, Flexural and Impact testing	St. Ann's College of Engineering & Technology, Chirala	11,328
22.	Tensile and Impact Testing	K.Krishna Kishore, St. Ann's College ,Chirala	1,239
Total Revenue Generated from January 2022 to June 2022			**71,124**

STUDENTS PUBLICATION

International Conferences:

1. Lakshmipathi Rao. N, Raju. M, **Balaji.M**, Nagarjuna. U, Sudheer D," Fabrication and analyzing the properties of brick which is madde of shredded surgical masks and ground granulated blast-furnace slag", International conference on Recent Trends in engineering Technologies and Engineering -ICRTETE-2022, Organized by International Institute of research inn Multidisciplinary -skill development trust , on 24th April 2022.

2. **Ponnaganti Gopinadh Chowdary**, Ch.Sri Chaitanya, Sammeta Venkata Satya Swamy Sai Charan, Avinash James, Sudanagunta Sai Naveen "Evaluation of mechanical properties of Banyan/glass fiber reinforced epoxy composites", AIP Conference Proceedings vol 2469, issue1, PP 020007(1-7), ISSN :1551-7616 March 2022, Mechanical Engineering Department https://doi.org/10.1063/5.0080430, **SCOPUS.**

3. **Dr. M. Sumalatha**, Kesava Rao VVS, Karuna Kumar G, Surya Vamsi S "Investigation of Tensile, Hardness and Corrosion Tests on TIG Welded Martenstic Stainless Steel (AISI 410) Plates", International Conference on Advances in Mechanical Engineering, Industrial Informatics and Management, Department of Mechanical Engineering, National Institute of Technology, Raipur, 25th-26th February 2022.

Placements

S.no	Name of the Student	Roll Number	Company Name
1	Illuri Raj Kumar	198W5A0320	Mindtree
2	Anisetti Anisetti Vikram	188W1A0359	Mindtree
3	Pragadaraju Siva Sai Charan	188W1A03F6	Mindtree
4	Muttevi Muttevi Raghu Datta	188W1A0393	Mindtree
5	Katarapu Raviteja	198W5A0322	Mindtree
6	Gadi Gadi Sai Balaji	188W1A0315	Mindtree
7	Uppu hemanth kumar	188W1A03B0	JSW steel
8	Narava veera sai kumar	188W1A0395	JSW steel
9	Kolli Naga Karthik	188W1A0380	Wipro
10	Abburi Divakar Sai Bhaskar	188W1A0301	Wipro
11	Nithya Sri Alaparthi	188W1A03B6	Wipro
12	Kundurthi Dheeraj	188W1A03E1	Wipro
13	Manasa Tejaswini Gorikapudi	188W1A0318	Wipro
14	Mantrala Srisaketh Krishna	188W1A0330	Infosys
15	Pabbisetty Gopichand	188W1A0338	Infosys
16	Anisetti Vikram	188W1A0359	Infosys
17	Arun Tejakasi	188W1A0379	Infosys
18	Mulupuri Gnana Deepthi Keziya	188W1A03E8	Infosys
19	Putti Meenakshi	188W1A03F8	Infosys
20	Vajjaparthy Durgarao	198W5A0324	Infosys
21	Mohammad Mahaboob Basha	198W5A0325	Infosys
22	Baireddy Anjaneyulu	188W1A0305	Hyundai Motors
23	MP Venkata Narendra	198W5A0311	Hyundai Motors

Models Prepared by the Students

S. no	Title	Name	Roll No.	Supervisor
1	Solar Panel Cleaning with Microfiber using Aurdino and LDR Sensor	M. Sri Saketh Krishna	188W1A0330	Dr. N. Ravi Kumar
		Syed Nazeer	188W1A0349	
		Ch. Koteswara Rao	188W1A0357	
		M. Naga Sai	188W1A0328	
		Ch. Sai Susmitha	198W5A0302	
2	Automatic Side Stand Retrieving System for Two Wheelers	P. Anjana Sai	188W1A03B8	Dr. K. Nagamalleswara Rao
		A. Nithya Sri	188W1A03B6	
		P. Bala Surya	188W1A03C0	
		B. Sowmya Deepika	188W1A03B9	
3	Enhancing the performance of a solar panel using flat plate reflectors	N. Bhanu Teja	188W1A0394	Dr. V. L. Krishnan
		R. Gireeswar	188W1A03A4	
		Md. Musharraf	198W5A0313	
		O A Mohammed Anas	188W1A0397	
		S. NV Syam Surya	178W1A03A3	
4	IOT Based Smart Fish Farming Aquaculture Monitoring System	M. Pavan Kumar	188W1A0329	Dr. A. Venkateswarlu
		A. Nayab Baba	188W1A0302	
		P Chandrakanth	188W1A0339	
		G. Manasa Tejaswinin	188W1A0318	
5	Fabrication of Copper Based Catalytic Converter	S. Yuvaraj Reddy	188W1A03A5	Dr. K. Srinivas
		Ch. Pradeep	198W5A0309	
		K. Naga Karthik	188W1A0380	
		L Joseph Emmanuel	188W1A0385	
		K Sri Sai	188W1A0381	
6	Adaptive Headlight system in Automobiles	K. Janardhan	188W1A0383	Dr. M. Bala Chennaih
		U. Hemanth Kumar	188W1A03B0	
		Farha Tabassum	188W1A0369	
		N. Jayaraju	198W5A0315	
		G. Seshadri Naidu	188W1A0372	
7	Fabrication of Brick Using Biomedical Waste	N Lakshmipathi Rao	188W1A0396	Dr. M. Balaji
		B. Karthik	188W1A0363	
		M Raju	188W1A0387	
		DVV Sudheer	188W1A0368	
		U Nagarjuna	188W1A03A9	

8	Design and Fabrication of a Water Can Carrying Machine	V. Vamsi	188W1A0352	Dr. Ch. Sri Chaitanya
		Md. Mustafa	188W1A0332	
		L. Vinit	188W1A0326	
		P. Gopichand	188W1A0338	
9	Energy Harvesting with Different Beams	A. Sai Teja	188W1A0303	Dr. T. Hari Krishna
		J Surya Simha	188W1A0321	
		M. Nagendra Sai Babu	188W1A0327	
		A Harshini	198W5A0301	
10	Design and Fabrication of Wind Blade.	K. Abhiram	188W1A0382	Sri M. Rajesh
		M. Vijay Kiran	188W1A0392	
		K. Sai Kiran	188W1A0378	
		Ch. Shanmukh Srinivas	188W1A0367	
		Y. Praneeth	188W1A03B3	
11	Object Detection in Extreme Dark Conditions	S. Surya Vamsi	188W1A03G1	Dr. M. Sumalatha
		NPSS Venkata Raman	188W1A03F2	
		Y. Gopi Krishna	188W1A03G9	
		MVSS Rama Krishnan	188W1A03F0	
		V. Sai	188W1A03G7	
12	Air Filtration by Vacuum Process	V. Sai Krishna	188W1A03B1	Smt. G. Sri Valli
		M. Keerthana	188W1A0388	
		K. Ajay Sagar	188W1A0377	
		Ch. Sudar Rao	188W1A03B4	
		Ch. Gireesh	188W1A0366	
13	Semi Automatic Farming	P. Raghava Sai Murthy	188W1A0341	Sri. P. Gopinadh
		P. Naga Bharadwaj	188W1A0342	
		S. Sri Charan	188W1A0347	
		Gaurav S Kumar	188W1A0316	
14	Four-Wheel Steering System	Y. Naga Sai Chandrika	188W1A03B2	Dr. R V Kiran Kumar
		M. Raghu Datta	188W1A0393	
		D. Puja	198W5A0310	
		B. Jeevan Reddy	188W1A0361	
		G. Anandh	188W1A0375	
15	Mini Peltier Based Cooler	G. Naveen	188W1A0320	Dr. V.V.Venu Madhav
		CH. Avinash	188W1A0313	
		Y. Sai Babu Patnaik	188W1A0356	
		SK. Altaf Rehman	188W1A0348	

16	Android Controlled Automatic Jack System for Vehicle	G. Teja	188W1A0373	Smt. G. Sri Valli
		N. Raghuanth	188W1A03A3	
		B. Nissy Flora	188W1A0362	
		M. Kiran Kumar	198W5A0312	
		N. Ravi Varma	168W1A3A1	
17	Multipurpose Agriculture Robot	M. Pavan Kumar	188W1A0329	Dr. A. Venkateswarlu
		A. Nayab Baba	188W1A0302	
		P Chandrakanth	188W1A0339	
		G. Manasa Tejaswinin	188W1A0318	
18	Fabrication of Pneumatic Powered Bumper Activation System for Vehicle Safety	N. V. Sai Kumar	188W1A0395	Sri. P. Sateesh Kumar Reddy
		P. Dhanunjay	198W5A0316	
		Ch. Vasu Teja	188W1A0365	
		Gadde Avinash	188W1A0371	
		G. Joseph Pravachan	188W1A0374	
19	Design and Development of Head Motion Controlled Wheel Chair	M. V. Gopi Krishna	188W1A0390	Mr. P. Gopinadh Chowdary
		A. Vikram	188W1A0359	
		P. Neha	188W1A03A1	
		T. Venkata Sai	188W1A03A8	
		R. Syam Krishna	168W1A03F9	
20	Motion Induced Table by Hand Raise Act (MITHRA)	K. Abhiram	188W1A0382	Sri M. Rajesh
		M. Vijay Kiran	188W1A0392	
		K. Sai Kiran	188W1A0378	
		Ch. Shanmukh Srinivas	188W1A0367	
		Y. Praneeth	188W1A03B3	
21	Design and Fabrication of Automatic Cleaning Mechanism for split Air Conditioner	Anjana Sai P	188W1A03B8	Dr. KNM Rao
		A. Nithya sri	198W5A03B6	
		P. Bala Surya	188W1A03C0	
		B. Sowmya Deepika	188W1A03B9	
22	Fabrication of a Wind and Solar Smart Charger	M. Bhargav Krishna	188W1A0333	Dr. G. Jamuna Rani
		S. Anand Kumar	188W1A0346	
		M. Ravi Kumar	188W1A0331	
		B. Ravi Teja	188W1A0306	
		N. Naveen	188W1A0336	
23	Android Controlled Automatic Jack with a Tyre Inflator	G. Teja	188W1A0373	Smt. G. Sri Valli
		N. Raghuanth	188W1A03A3	
		B. Nissy Flora	188W1A0362	

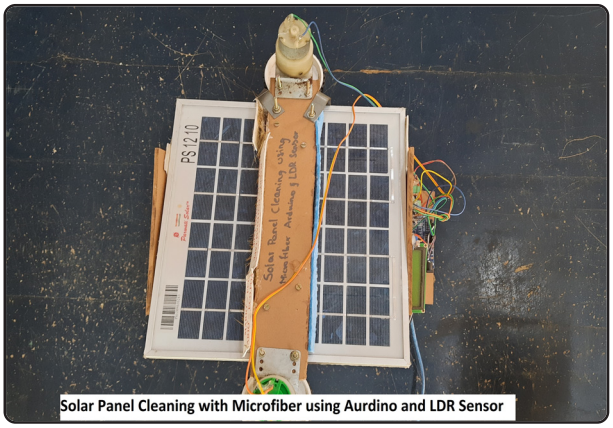
		M. Kiran Kumar	198W5A0312	
		N. Ravi Varma	168W1A3A1	
24	Pollution Capture and Control	M. Masroor Raza	198W1A0336	Dr. C. Mahesh
		G. Leela Prasad	198W1A0322	
		K. Pavan	198W1A0326	
		Ch. Vamsi	198W1A0314	
		P. Naga Sri Sai	198W1A0350	
25	Solar Panel Monitoring by Using IOT	K. Srinu	208W5A0305	Dr. V. L. Krishnan
		T. Hemanth Kumar	198W1A0360	
		Ch. Vamsi Krishna	198W1A0311	
		G. Nikesh	198W1A0318	
		S. Fahad	198W1A0357	
26	Foot Step Power Generation Using Piezo Sensors	D. Mohana Ranga Rao	208W5A0302	Mr. Ch. Venkata Prasad
		N. Venkata Ganesh	198W1A0345	
		A Lohith	198W1A0301	
		M. Prudhvi Venkat	198W1A0340	
		D. Jyothi Swaroop	198W1A0315	
27	Water Tin Carrier and Loader	K. Radha Krishna	208W5A0306	Dr. A. Venkateswarlu
		R Jatin	198W1A0354	
		N. Mahesh	198W1A0342	
		M.M.H. Baig	198W1A0337	
		G. Akash	198W1A0320	
28	Design of Mini Cold Storage	Inthiyaz Khan	208W5A0304	Dr. Ch. Naga Raju
		Ch. Prakash Raj	198W1A0310	
		B Uday Kumar	198W1A0306	
		M Charan Naga Vijay	198W1A0333	
		P Lakshmi Krishna Surya	198W1A0351	
29	Egg Incubator for Small Scale Poultry Farmers	R Srinivasa Sarath Kumar	198W1A0353	Dr. Ch. Sri Chaitanya
		Sk. Afeef Ahmed	198W1A0358	
		M. Gunadeep	198W1A0341	
		I Nishanth	198W1A0323	
30	Advanced Mosquito Killer Equipment	B. Hemanth Kumar	198W1A0308	Dr. K. Srinivas
		N. Hemsai	198W1A0343	
		M Prudhvi Nitish	198W1A0338	
		V. Sai Nivas	198W1A0361	

		K. Nithin Kumar	198W1A0327	
31	Automatic Seatbelt Mechanism of Automobile	B Rakesh Kumar	208W5A0301	Dr. G. Dillibabu
		BLSVD Madhu	198W1A0305	
		K Priyamvada	198W1A0328	
		M Anusha	198W1A0334	
		N Mani Varma	198W1A0344	
32	River Water Cleaning System	S Sai Varun	208W5A0313	Dr. V. Sridhar
		Sk Ismail	198W1A03B4	
		P. Uday Kumar	198W1A03A2	
		D Gopichand	198W1A0371	
		K Chaitanya	198W1A0382	
33	Solar Seed Treatment and Plantation Unit	P Raghu Venkat	208W5A0307	Dr. M. Balaji
		A Avinash	198W1A0304	
		MVS Chaitanya	198W1A0332	
		Y Dhanish	198W1A0316	
		A Manoj Kumar	198W1A0302	
34	Waste Heat Recovery System Using Thermo Electric Generator	K Nikhil Chand	198W1A0385	Dr. V. V. Venu Madhav
		A Srikanth	198W1A0362	
		G Bhanu Teja	198W1A0372	
		Ch Sri Varsha	198W1A0368	
		G Lakshman Chandu	198W1A0374	
35	Design of Helical Coil Condenser	Y Harshavardhan Varma	198W1A03C3	Mr. V. Vasu
		S Navya Keerthi	198W1A03B2	
		S Sai	198W1A03A8	
		Sk Afroz	198W1A03B3	
		K Kavya Sri	198W1A0381	
36	Waste Heat Recovery System for Power Generation Using Stirling Engine	I Siddhartha	198W1A0378	Smt. A. N. Phani Deepthi
		N Manoj Kumar	198W1A0396	
		S Nikhilendra Kishore	198W1A03B1	
		D Jashuva	198W1A0369	
		K Sai Praveen	198W1A0383	
37	Modelling and Manufacturing of Herringbone Gear by using 3D printing Technology	D. Hari Krishna	208W5A0310	Mr. M. Ashol Chakravarthy
		M Leela Krishna Babu	198W1A0392	
		M Uday Siddartha	198W1A0390	
		D Yaswanth Sai	198W1A0370	
38	Design and Fabrication of Groundnut Shelling Machine	G.V. Narasamma	208W5A0317	Mr. P. Gopinadh Chowdary
		D. Rahul	198W1A03E1	
		P Mahesh	198W1A03G9	

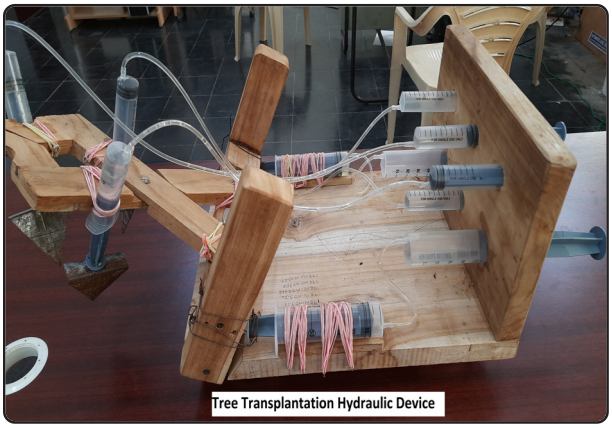
		P Bhuvan	198W1A03D1	
		B Komal	198W1A03D0	
39	Tree Transplantation Hydraulic Device	V Akshay	198W1A03I5	Dr. Ch. Sri Chaitanya
		P Lakshmi Reddy	198W1A03G7	
		S Sai Jayanth	198W1A03H4	
		D Jayanth	198W1A03D8	
		K Praveen Kumar	198W1A03F3	
40	Design and Fabrication of TriWheel Stair Climbing Hand Trolley	N Hari Charan	198W1A03G5	Mr. P. Sateesh Kumar Reddy
		R Manoj	208W5A0319	
		M Srinivasa Rao	198W1A03G0	
		K Ranjith Kumar	198W1A03F0	
		H Sai Phaneendra	188W1A03D6	
41	Fabrication of Mini Solar Water Heater	K Chaitanya Sai Teja	198W1A03F6	Dr. G. Jamuna Rani
		L Naveen Babu	198W1A03F9	
		M Sai Dileep Kumar	198W1A03G1	
		S Nikhil	198W1A03H5	
		D Sai Rohith	178W1A0375	
42	Bluetooth Control Grass Cutter Using Solar Power	Ch. Durga Rakesh	198W1A03D3	Dr. T. Hari Krishna
		Ch Bhavana	208W5A0316	
		M Krishna Sai	198W1A03F8	
		V Prudhvi	198W1A03I2	
		Y Bobby Yashwanth	198W1A03I6	
43	Piezoelectric Energy Harvesting Floor Mat	A Vinay	208W5A0315	Mr. K. Ravi Kumar
		N Vidyadhar	198W1A03G4	
		T Gopala Krishna	198W1A03H9	
		D Peddakasim	198W1A03E2	
		S Dheeraj	198W1A03H1	
44	Conservation of Kinetic Energy by Using a Flywheel in Bicycle	P Ram Reddy	198W1A03A6	Mr. Ch. Venkata Prasad
		A Saisri	198W1A0363	
		M Akash	198W1A0393	
		V Chiranjeevi	198W1A03B8	
45	Handy Harvesting Machine	Sk. Nishath Afroz	198W1A03B5	Dr. K Naga Malleswara Rao
		K Siva Teja	198W1A0386	
		P Veera Maha Lakshmi	198W1A03A0	
		Y Manideep	198W1A03C4	
		P Vamsi Anush	198W1A03A3	
46	Pico-Hydro Archimedes Screw Turbine For	L Upendra	208W5A0318	Dr. M. Bala Chennaiah
		Ch Naveen	198W1A03D4	

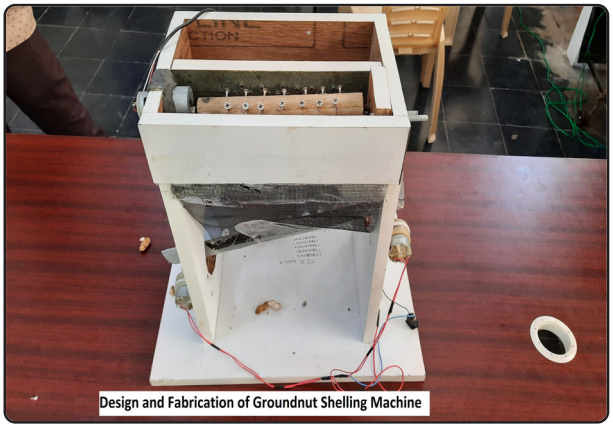
	Rural India Electrification	P Karthik Surya	198W1A03G8	
		T Vamsi Krishna	198W1A03I0	
47	Implementation of Rack and Pinion in Washbasin to Save Excess of Water	PNV Pradeep	198W1A03H0	Smt. B. Supraja Reddy
		K Sai Tarun	198W1A03F7	
		J Phanindra Kumar Naik	198W1A03E9	
		V Vivek	198W1A03I3	
		G Chakravarthy	198W1A03E7	
48	Enhancement of Flow Rate of Water Through Improvisation of Siphon Pump	P Vamsi	208W5A0312	Dr. K. Prakash Babu
		L Ganesh	198W1A0389	
		P Vinay Kumar	198W1A0398	
		SVSSALCM Subba Rao	198W1A03A7	
		S Sai Krishna	198W1A03A9	
49	Design and Fabrication of Beach Cleaning Machine	Sk. Fatimunnisa	198W1A03H2	Dr. V. Bapi Raju
		Ch Pramod	198W1A03D5	
		G Ravi Varma	198W1A03E5	
		V Siddhartha	198W1A03H3	
		A Sridhar	198W1A03C6	
50	Modelling and Fabrication of Eco-Friendly Road Cleaning Machine	V Srikanth	198W1A03I4	Mr. K. Siva Prasad
		Sk Ismail	208W5A0320	
		Ch Bhanu Prakash	198W1A03D2	
		K Mohanthi	198W1A03F2	
		M Bahaskara Sai	198W1A03G2	

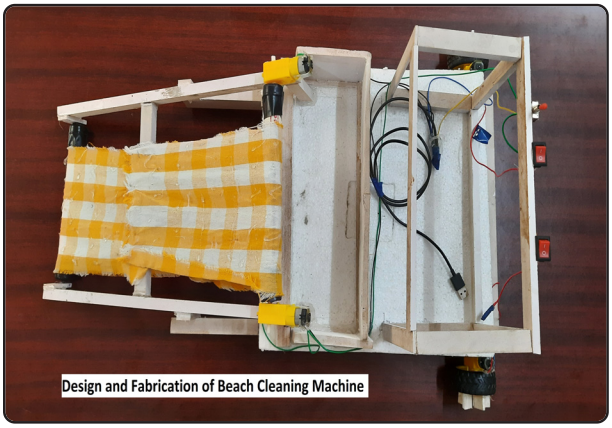
MODELS PREPARED BY STUDENTS

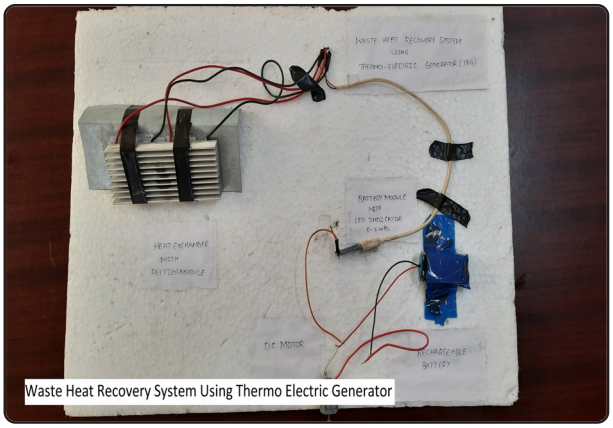


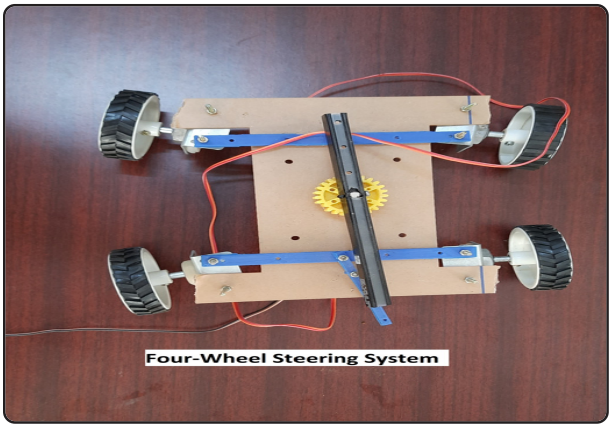
Solar Panel Cleaning with Microfiber using Aurdino and LDR Sensor


Tree Transplantation Hydraulic Device


Design and Fabrication of Groundnut Shelling Machine


Design and Fabrication of Beach Cleaning Machine


Waste Heat Recovery System Using Thermo Electric Generator


Four-Wheel Steering System

DEPARTMENT OF MECHANICAL ENGINEERING

V.R. SIDDHARTHA ENGINEERING COLLEGE

Kanuru, Vijayawada - 520 007.