



Newsletter of Mechanical Engineering Association

DEPARTMENT OF MECHANICAL ENGINEERING SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN :: AUTONOMOUS

Vision of the Department

- To be recognized globally for quality education and research leading to well-qualified, innovative, entrepreneurial and successful mechanical engineer

Mission of the Department

- To Impart quality education to enhance skills and make graduates globally competitive.
- To Prepare students to pursue lifelong learning,, serve the profession and meet intellectual,, ethical and work place challenges.
- To Provide Research facilities and opportunities to faculty & students to create,, interpret,, apply and disseminate knowledge.

Program Educational Objectives

- Have foundation in engineering and science to apply Technical Knowledge and skills in various areas of Mechanical Engineering.
- Become effective engineers to meet society''s needs with their research capabilities in interdisciplinary subjects.
- Acquire skills for life-long learning and practice of professional ethics.

INDUSTRIAL VISIT TO MSME, VISHAKAPATNAM

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MSME Technology Centre, Visakhapatnam is the premium skill development centre established through the Ministry of Micro, Small and Medium Enterprises, Govt. of India under the auspices of World Bank. The primary objective of the Training centre is to provide the world-class education, skill development training and conduct innovation research at the interface of multiple disciplines to create high quality human resources in disciplinary and interdisciplinary areas of Engineering Technologies.

Dr Ch Hari Krishna, Mr J Eswara Manikanta from the Department of Mechanical Engineering and Mr A Siva from Electrical & Electronics Engineering have visited MSME to explore the state of art facilities available at the Centre. The aim of this visit is to identify the opportunities for student internships, project works and faculty research. MSME- Technology Centre has state-of-the-art production machinery under single roof & offer an array of cutting-edge production services.

It is an ideal production Centre for Tool & Die, Jigs Fixtures, Precision Machining, Industrial Fabrication and Indigenization of Marine, Aviation and Aerospace components and Systems with wide spectrum of sophisticated Technologies includes all latest & advanced machines.

The Technology Centre also having the following state-of-art facilities:

- Latest Software's for designing and Reverse Engineering
- 3D Scanner for Reverse Engineering
- Material Mechanical and chemical testing Laboratory
- CMM Laboratory, Hydraulic Laboratory
- SCADA/ PLC Automation and VLSI/ Embedded Systems Laboratory



Three Day Workshop on Full Stack Web Development

This Full-Stack Development workshop will serve as a comprehensive introduction to various topics in Web Development. This course is a proper blend of theory and practical with hands-on sessions on each and every concept. In this workshop, you will be learning the fundamentals of Web development by gaining in-depth knowledge of front-end technologies and webpage creation.

Companies are in constant need of Full-Stack Developers as they are equipped to work on various aspects of web development. They can troubleshoot unique and challenging problems using innovative solutions.

A 3 day training on “Full Stack Development” was organized by the Department of mechanical engineering during 13-10-2022 to 15-10-2022 to aware students with various software engineering fields and their scope and to encourage the student to come up with innovative ideas in the field of Information Technology.

The session commenced with an introductory session conducted by Mr. Pavan Kusuma ,Senior Designer, Microsoft Session has been started with introductory concepts Full Stack Development and its importance. Further, he has explained the various project development concepts.

He also talked regarding scope of various technologies currently used in IT industries for Full Stack Development. He had explained how these technologies are help in real world scenarios and what are the future scope with these technologies.



Student Testimonial

As a student of SVECW, I can proudly say i have chosen a great path in my career. SVECW is a challenging place for students, offering unique opportunities to learn new skills and expand the knowledge. The wide range of resources and support services in this college helped me to achieve my goals. Women in mechanical engineering is still a frequently faced question by me. But this college gave me confidence to stand up and say that women will excel in mechanical engineering too and it is not gender biased apart from that I can show me as an example to them.



Vaddi kalyani
Caterpillar India pvt.ltd

The best part from the mechanical branch is the support system that I got. I have done few projects in 4 years and at every step my lectures guided me in a very great way.Their involvement helped us to convert our small ideas into great results.I want to specially mention about baja project, there were many takeaways from this project both technically as well as regarding personal development. Being as a captain I developed people management and leadership qualities.It keeps us the enthusiasm to learn and execute new ideas everyday.I believe that an engineer should always have the desire to make a difference in the world.The opportunities for that will be always provided in this college.

Inauguration of Vishnu ATV & Go-kart Track

Development of the **Vishnu ATV & Go-kart Track** at Yanamadurru village in Bhimavaram, The track is **“First of Its Kind Throughout India”** among Educational Institutions. Which provides Proving Ground for All Student Made Go-Karts and All-Terrain Vehicles and also open for all budding Engineers and Start-up who want to use it for their different Testing and Validation purposes.



Graduation Day in Shri Vishnu Engineering college for women

Sixth Graduation Day was celebrated at Shri Vishnu engineering college for women, bhimavaram on 21/11/2022. **Shri. S. P. Velumani, M.A, M.Phil, Honourable Minister for Municipal Administration and Rural Development** was invited as the Chief Guest.



Welcome address was proposed by the Principal, Prof. Dr. G.SrinivasaRao, **Shri.** gave the presidential address. Administration of oath was done by the Principal. G.Srinivasa Rao was awarded to the graduates by the dignitaries. A memento and provisional certificates were presented to the graduates individually.

Student achievements

Epiroc Vidya Sahayog Program is a CSR initiative of Epiroc that focuses on education. This program aims to provide financial assistance to the socially and economically weaker section of students in the form of a scholarship, developing school/institute/hostel infrastructure for a better learning environment, and providing any other education-related facility. 7 students of Mechanical Engineering from svecw has been awarded 25000 thousand rupees each under this scheme.



Faculty Publications

➤ N. Malleswararao Battina, Chirala Hari Krishna, and Varaha Siva Prasad Vanthala published a paper on Influence of pin profile on formability of friction stir-welded aluminum tailor-welded blanks in the Transactions of the Canadian Society for Mechanical Engineering. **46(3): 602-613.**

➤ Battina NM, Chirala HK, Inala R, Kummitha OR, Veeravalli LN, Pericherla SR published a paper on Influence of coefficient of friction between punch-blank interface on formability of friction stir welded aluminum tailor welded blanks- in the *Journal of Mechanical Engineering Science*. 2022;**236(17):9677-9686.**



Faculty attended Workshops/ Conferences



- Dr.CH.Harikrishna attended 5-day Faculty Development Program on “Industry 4.0: Strategic & Technological Perspectives For Indian Capital Goods Industries” during 8th to 12th December.
- Mr. P Surya Prakash Varma attended 5-day Faculty Development Program on “Advances And Futuristic Trends In Mechanical Engineering (Aftme)” during 19th to 24th December.
- Mr. N Srinivasa Rao attended FDP on Trends & Challenges In The Development Of Electric Vehicles & Hybrid Electric Vehicles (Series-1) during 26th to 30th September 2022.
- Mr. J V Narsimha Raju attended One Week Faculty Development Program on Advances And Futuristic Trends In Mechanical Engineering (Aftme) During 19th To 24th December
- Mr. B.Satya Krishna attended workshop on Thermal Energy Production Of Biomass, Heat Exchange, Thermal Fluid Transport To Prevent Global Warming During 25th October 2022.
- Mr. V.L.Narayana attended workshop on Thermal Energy Production Of Biomass, Heat Exchange, Thermal Fluid Transport To Prevent Global Warming during 25th October 2022.
- Mr. U.D.S.Prathap Varma attended One Week Faculty Development Program on Inculcating Universal Human Values In Technical Education) during 11th to 15th July 2022
- Mr. U.D.S.Prathap Varma attended One Week Faculty Development Program on Universal Human Values during 23rd to 27th August 2022.

Faculty Achievements

- Battina N Malleswara Rao, Assistant Professor of Mechanical Engineering Department has been awarded Ph.D. in the area of “Metal Forming” on November 24-11-2022.
Title of the Research Work: “Investigations On The Mechanical, Metallurgical, And Formability Behaviors Of Aluminium Tailor Welded Blanks Produced By Friction Stir Welding”.



- Under the supervision of Dr. V.V.S.Prasad, Professor and HOD, Marine Engineering Department, Andhra University, Visakhapatnam and Dr. B.V.Appa Rao, Professor, Marine Engineering Department, Andhra University, Visakhapatnam.

- Mr. Javadi Eswara Manikanta, Mr. Adina Srinivasa Vara Prasad et al, Published a Patent with the
Title of invention: Fixture for Square Guided Apparatus
Patent Application Number: 202241067302 A
Date of filing: 23/11/2022
Date of Publication: 02/12/2022

