



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.

BFKCT- Bharat Formula Karting

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Bharath Formula karting powered by CADD Technologies School of Design Pvt. Ltd. BFKCT – is an event to bring out the students talent and enrich their knowledge in the emerging passionate filed of Motorsport Engineering. BFKCT will provide a platform to the budding engineers to enhance their knowledge and technical skills into reality.

The team consists of a total of 19 enthusiast women engineers from Mechanical and EEE department of SVECW who proved their mettle again in parallel to that of Men on a common racing track. A total of 85+ teams(43 M-kart & 42 E-Kart) has participated for the event. The event was of 04 days schedule from 10th - 13th September, 2019. Team E-Juno Racers had a good attention throughout the event due to its uniformity & Discipline in the team.

Finally, Team has bagged the award mentioned below-

1. Overall Best Business plan award.
2. Best performing team throughout event.

In this even we are honored to announce that our faculty advisor Mr. Manoneet Kumar has awarded the prestigious Dronacharya Award in this event. This recognition is a testament to dedication, expertise, and excellence in automotive technology .



DASSAULT Global Certification on 3D Experience Platform From 25-29/JUL/2019

Dassault Systems offers a range of global certification programs for its 3D Experience platform to validate users' skills and expertise in using their software tools. These certifications are widely recognized in industries that rely on Dassault's software for design engineering, and manufacturing.

As a part of this program 15 students from IV year and III year mechanical engineering have appeared for 3d experience certification related to mechanical designer and mechanical platform explore organized by dassault systems at NBKR Institute Of Science And Technology, Nellore on 26/07/2019. 10 students of which are certified for mechanical platform explore and 15 students qualified for both to mechanical designer and mechanical platform explore.



5 DAY FDP ON MATERIALS AND MANUFACTURING

The Department of Mechanical Engineering, Shri Vishnu Engineering College for Women has conducted a 5 day workshop on Materials and Manufacturing from 17-21/Sep/2019.

During these 5 days several topics related to the advances in materials and manufacturing have been covered.

- Dr Chandan Mondal, Scientist-F from DMRL has delivered sessions on the design of aluminium alloys for light weight and high strength applications.

- Dr MJ Davidson and Dr A Kumar from NIT warnagal have shared their expertise on advances in Metal forming and Unconventional machining processes and how to model and solve the research problems using optimization techniques.

- Dr K Venkateswarlu, Scientist-F & Dy. Director, NAL, Bangalore has shared his expertise in the area of advanced composites and their applications in aerospace industries

Faculty and students participants gained lot of knowledge and understood the application of advanced materials in aerospace industries. Dr K Venkateswarlu had discussed, how to submitting research projects and publishing papers with faculty and scope for internships in NAL for B.Tech students.



Faculty development program on ARC -2.0 by ARC Labs

A Faculty Development program was organized by ARC 2.0 for the faculty members of ARC Labs as part of “Indo European Skilling Centres for Mechatronics and Industrial Robotics” from 9-12/August/2019 at VIT-AP, Amaravati.

Dr Ch Hari Krishna from the Department of Mechanical Engineering and Mr T Sairam Vamsi from Electronics and Communications Engineering Department from Shri Vishnu Engineering College for Women attended the faculty development program.

During this 5 day workshop, Faculty were trained on the robotic programming using simulation software C-PROG. Several programs were developed for pick and place operation using single Robot and by collaborating two robots.

The faculty trained on ARC 2.0 will provide training to the registered students of Mechanical Engineering, Electronics and communications engineering and Electrical Engineering students.



Inauguration of Vehicle Design Lab

The Department of mechanical engineering has established vehicle design lab facility to impart training to the students on vehicle design and manufacturing. It was inaugurated by the Mr. Kamal Bali President & Managing Director at Volvo Group, India

VDL provides all the facilities to Mechanical Engineering students involved in design and development of automotive systems for all terrain vehicles in the Department. VDL is equipped with all essential Computing & Software facilities used in modeling, analysis, design and drafting purposes during Vehicle Design.

Our mission is to complement qualitative methods for integrated vehicle design by developing and using novel, quantitative integrated design methods that can facilitate the best overall vehicle design solutions.

Major activities carried out in this laboratory are:

- Vehicle design and Fabrication
- Manufacturing of all-terrain vehicles for the Baja events conducted every year
- Manufacturing of e-bikes, e-bicycle and campus utility vehicles
- Fabrication of Go-Karts
- Conducting various workshops, guest lectures and training to students on latest developments in the automobile sector.



Faculty attended Workshops/ Conferences



- Dr Ch Hari Krishna attended Faculty development on ARC 2.0 during 05-08-2019 to 12-08-2019
- Mr. B. Satya Krishna attended Regional Research Symposium at PBL during 22-11-2019 to 23-11-2019
- Mr.J.Teja Venkata Satish attended Faculty development on Wipro 3D Centre add wise programme on metal additive manufacturing during 20-12-2019 to 21-12-2019.
- Mr.J.Teja Venkata Satish attended Faculty development on Research problems in Materials and Manufacturing with Hands on Experience during 17-09-2019 to 21-09-2019
- Mr. V. Lakshmi Narayana attended Faculty development on Research problems in Materials and Manufacturing with Hands on Experience during 17-09-2019 to 21-09-2019
- Mr. Manoneet Kumar attended a two week FDP on Noise, Acoustic, Vibration control, and measurement in various engineering applications with hands on session during 04-06-2019 to 15-06-2019
- Dr Ch Hari Krishna attended International conference on Recent Trends in Metallurgy organised by Materials Science and Manufacturing IMME19 during 27-12-2019 to 28-12-2019
- Dr Ch Hari Krishna attended Malaysia-Singapore Research Symposium 2019 (MS-2019), organised by Sustainable Development in Mechanical engineering National University of Singapore during 05-09-2019
- Mr UDS Prathap Varma attended two week FDP Green And Sustainable Technologies for Materials Manufacturing and Processing's during 10-06-2019 to 22-6-2019

Faculty Publications:

- Dr.Ch.Hari Krishna, published a paper on Analysis of anisotropy in the upsetting process of AA2014 cast alloy embedded with fly ash in the Journal of Mechanical Engineering Science.
- Mr.B. Satya Krishna, published a paper on Fatigue Analysis of Motor Cycle Alloy Wheel in International Journal of Innovative Technology and Exploring Engineering
- Dr.Ch.Hari Krishna, published a paper on Damage modeling and critical damage evaluation of AA2014 cast alloy embedded with fly ash composite under upsetting in the Journal of Mechanical Engineering Science.

