

NIRVANA

DEPARTMENT OF MECHANICAL ENGINEERING
VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR. 08251-234555



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BIANNUAL NEWSLETTER

Seminar on “Cyber Securities & Ethical Hacking”

Department of Mechanical Engineering had organized Seminar on “Cyber Securities & Ethical Hacking” in association with TechByHeart Academy Bangalore, Mechanical Engineering Students Association (MESA),



ISTE Student Chapter & IQAC on 30/11/2023. Mr. Shazin Shahul, Cyber Security Analyst, TechByHeart Bangalore had participated as a resource person for the event. He gave insight on the importance of cyber security in day-to-day life, & also spoke on ethical hacking. He emphasized that there will be lot of job opportunities in the field of cyber security in near future. He motivated students to get trained in the domain and grab the opportunities. The session was demonstrated using real world examples/case studies. The seminar was organized in Krishna Chethana block with around 60+ participants from Mechanical Engineering Department. Prof. Harish S. R. Coordinator of MESA introduced the speaker and welcomed the gathering. Dr. Manujesh B. J, HOD. Dept. of Mechanical Engineering along with faculty members were present for the event.

Vision

“To be a well-recognized department striving continuously by providing conducive environment for learning, leading to, creative and innovative Mechanical Engineers”

Mission

M1: Students: To prepare, educate, inspire and mentor the students to excel as Professionals.

M2: Faculty: To edify, encourage and support in academic and research activities.

M3: Infrastructure: To render facilities and infrastructure in the field of Mechanical Engineering.

M4: Teaching Learning: To improve pedagogical methods employed in delivering the academic Programs to the needs of the industry.

Antikythera
Mechanism

The Antikythera mechanism is an ancient Greek, hand-powered mechanical device that is the oldest known analogue computer. It was used to predict astronomical positions, including the phases of the moon, and solar and lunar eclipses, often with a precision of decades. The mechanism was recovered from a shipwreck near the island of Antikythera in 1900-1, and is now on display in the National Archaeological Museum in Athens.

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Liebherr LTM
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The Liebherr LTM 11200-9.1 holds the distinction of being both the world's strongest and tallest telescopic mobile crane. Engineered by Liebherr, this all-terrain crane is renowned for its exceptional lifting capacity and unparalleled reach. **Maximum Lifting Capacity:** 1,200 tonnes (1,323 U.S. tons) at a 2.5-meter radius

INDUSTRIAL VISIT

The Department of Mechanical Engineering, Vivekananda College of Engineering and Technology, Puttur had organized an Industrial Visit to KSRTC Divisional Workshop, Puttur on 06.12.2023. The students of 3rd Sem ME along with 5 faculties had been to the visit. The visit was organized under the guidance of Dr. Manujesh B J, Head, Department of Mechanical Engineering, Prof. Harish S R, Prof. Satheeshakumar K, Prof. Naveenakrishna P.V, Prof. Naveen S P and Prof. Raghavendra accompanied the students. A total of 35 students had been to the visit.



The purpose of industrial visit for students is to provide technical knowledge with the technological development in the industry and to understand the gap between the theoretical and practical knowledge that could be passed in future. This experience can help



students to provide information regarding functioning of various industries and associated problems and limitations. Interacting with the industry also provides a chance to build networks and improve their communication skills.

After completing the initial formalities, students are permitted to visit the factory. The divisional mechanical engineer received and briefed about the activities of the workshop. The students got an opportunity to explore the various automotive service divisions like inventory, gearbox, radiator, engine, fuel injector, upholstery and tire divisions etc.

Workshop on “3D Printing & Applications”



Department of Mechanical Engineering had organized workshop on “3D Printing & Applications” in association with Mechanical Engineering Students’ Association (MESA) ISTE Student Chapter, Internal Quality Assurance Cell (IQAC), & Alumni Cell on 08/12/2023. Mr. Ashith C, Director, Aradraa Robotics Pvt. Ltd, Design Engineer, Yenepoya Technology Incubator Mangaluru had participated as a resource person for the event. He gave insight on the importance of 3D printing in the bio medical field. He also briefed various 3D printing types such as Stereolithography (SLA), Selective Laser Sintering

(SLS), Fused Deposition Modeling (FDM), Digital Light Process (DLP), Multi Jet Fusion (MJF). The session was interactive with demonstration of layering methods using open end software’s. The seminar was organized in CAED Lab, Madhu Chethana block with around 90+ participants from mechanical engineering department. Mr. Harish S. R. Coordinator of MESA introduced the speaker and welcomed the gathering. Dr. Manujesh B. J, HOD. Dept. of mechanical engineering along with faculty members were present for the event.

Mechanical Engineering carries the ethical responsibility to Design systems and machines that are safe, sustainable, and beneficial to society. Engineers must balance innovation with accountability, ensuring their creations do not harm people or the environment.

**Alumni Talk on
“Career Prospects in Mechanical Engineering”**

Department of Mechanical Engineering had organized talk on “Career Prospects in Mechanical Engineering” in association with Mechanical Engineering Students’ Association (MESA) ISTE Student Chapter, Internal Quality Assurance Cell (IQAC), & Alumni Cell on 09/12/2023. Mr. Karthik K.N., Design Engineer, Indo- Mim, Bangalore participated as a resource person for the event. He gave insight on the importance of mechanical engineering in industries and emphasized that there will be lot of job opportunities in designing field. He motivated students to get trained in the domain and grab the opportunities. The session was demonstrated using real world examples/case studies. The talk was organized in Krishna Chethana block with around 60+ participants from mechanical engineering department. Mr. Deepak B. C., of 7th Sem Mechanical Engineering had introduced the speaker and welcomed the gathering.



Class 2023-24 Mechanical Engineers



Krishna Raja Sagara DAM

The Krishna Raja Sagara (KRS) Dam is a major water reservoir built across the Cauvery River in Karnataka, India. It was constructed during the reign of the Wadiyar dynasty under the guidance of Sir M. Visvesvaraya, a renowned engineer and statesman. Completed in 1931, the dam plays a vital role in irrigation, drinking water supply, and hydroelectric power generation. Located near Mysuru, it supports the agricultural needs of the Mandya and Mysuru districts. The dam has a length of around 8,600 feet and a height of 130 feet. The reservoir created by the dam is known as the KRS Reservoir or simply KRS Lake. Brindavan Gardens, located below the dam, is a famous tourist attraction featuring musical fountains and well-maintained landscapes. The dam also helps regulate the flow of the Cauvery River, preventing floods during heavy rainfall. It is considered a symbol of modern engineering in pre-independence India. Overall, the KRS Dam is both an engineering marvel and a lifeline for millions in Karnataka.



MOTOR MOB - 2023



The thrill of wheels and engines was passionately experienced as the Department of Mechanical Engineering proudly unveiled "Motor Mob – 2023," in a remarkable collaboration with the mechanical Engineering Students' Association (MESA). On the vibrant day of 20-12-2023, our campus underwent a mesmerizing transformation, emerging as a heaven for automotive enthusiasts. The event began with a grand inauguration ceremony, where Shri Balam Acharya, Director VVS Puttur, graced us with his esteemed presence. With grace and dignity befitting the occasion, he illuminated the ceremonial lamp, symbolizing the dawn of a new era in automotive excellence.



With meticulous care and boundless enthusiasm, we curated a captivating display, boasting an extensive array of over 150 vehicles, each a testament to the ingenuity and passion. From the elegant allure of Vintage vehicles, exuding timeless charm, to the cutting-edge sophistication of Premium models, and the rugged powerhouses of



Offroad beasts, our exhibition promised a sensory feast for all who ventured through its corridors. The air was electric with anticipation as engines roared to life and wheels spun tales of adventure and innovation.



Adding a crescendo of excitement to the proceedings was a heart-pounding Bike Stunt Show, a breathtaking display of skill and daring that left spectators spellbound and craving for more. The campus buzzed with exhilaration as a lively rally of exhibited vehicles took to the streets, parading through our grounds in a vibrant display of mechanical marvels. As the sun dipped below the horizon, casting a warm glow upon the festivities, it was evident that "Motor Mob – 2023" wasn't just an event; it was a celebration of passion, innovation, and the enduring spirit of automotive camaraderie.



Mechanical engineering is the best branch of engineering because it forms the foundation for innovation in machines, vehicles, energy systems, and robotics. Its versatility allows engineers to work across industries, solving real-world problems with practical, hands-on solutions.