



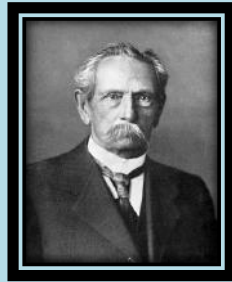
# VIMAL JYOTHI ENGINEERING COLLEGE. CHEMPERI



## MECHNOVA

FEBRUARY 2019  
VOL 7, ISSUE 1

### KNOW A FAMOUS MECHANICAL ENGINEER SERIES-5



**Karl Benz**, in full **Karl Friedrich Benz**, (November 25, 1844 - April 4, 1929), German Mechanical engineer who designed and in 1885 built the world's first practical automobile to be powered by an internal-combustion engine. He received a patent for the motor on 29<sup>th</sup> January 1886. Karl Benz was completely dedicated to the proposition that the internal-combustion engine would supersede the horse and revolutionize the world's transportation. On 4<sup>th</sup> April 1929 Karl Benz died at home in Ladenburg at the age of eighty four.

### Program Educational Objectives (PEO'S)

**PEO1:** Graduates will be able to pursue successful professional career in Mechanical Engineering with sound technical and managerial capabilities.

**PEO2:** Graduates will have skills and knowledge to formulate, analyze and solve problems in mechanical engineering to meet global challenges.

**PEO3:** Graduates will be capable of pursuing mechanical engineering profession with good communication skills, leadership qualities, team spirit and professional ethics to meet the needs of the society.

**PEO4:** Graduates will sustain an appetite for continuous learning by pursue higher education and research in the allied areas of science and technology.

### Inside this issue

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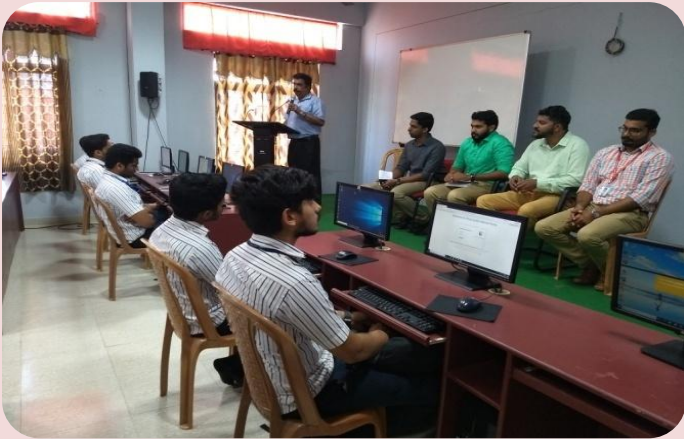
### VISION

“To become a centre of excellence in Mechanical Engineering, producing innovative and creative mechanical engineers to meet the global challenges”

### MISSION

- To provide a platform to the students towards attaining quality education in Mechanical Engineering.
- To educate students about professional & ethical responsibilities and train them to build leadership and entrepreneurship qualities for their career development.
- To create opportunities and guide students in acquiring career oriented jobs in the field of Mechanical Engineering

# THREE DAY WORKSHOP ON ROBOTICS & DRONE DESIGN



A Three day workshop on robotics and drone design was conducted at the department from 23-01-19 to 25-01-2019. The sessions were handled by representatives from BIMLABS Trivandrum together with Faculty of our Department from our college. The program included;

- 1) WORKSHOP ON DESIGN OF URBAN DRONES
- 2) TRAINING FOR INDIA DESIGN CHALLENGE 2018-19-FUSION 360
- 3) FUNDAMENTALS OF ROBOTICS DESIGN
- 4) HANDS ON TRAINING IN ARTIFICIAL INTELLIGENCE BASED ROBOTS
- 5) HANDS ON TRAINING ON CATIA V6 SOLID MODELLING
- 6) 3D MODELLING & ASSEMBLY OF MACHINE ELEMENTS

The program had a good participation from second year students of Department of Mechanical Engineering

# EXHIBITION AT SCHOOLS



As a part of Exhibition, our department put up stalls at St. Anne's English medium school Payyavoor on 27-10-18, Ursuline Senior Seciondary School Pariyaram from 13-12-18 to 15-12-18 and Sree Sankara Vidya Peetam Mattanur from 15-01-2019 to 19-01-2019 . The ATV, Formula 3 car, the 3 D printer, and robotics equipments were displayed and demonstrated in the event. This helped the students to have an understanding of the engineering field.

## BMW 'SKILL NEXT'



Dept. of Mechanical Engineering, Vimal jyothi Engineering college, is one of the few college selected for BMW 'SKILL NEXT' a technical skilling initiative. "Skill Next" will present an opportunity for engineering and technical students to get hands-on training on advanced technologies of BMW engine and transmission at Vimal jyothi. BMW eight speed steptronic automatic transmission Engine is bought to the Department. Highly smooth gear shifts for optimum power development is a speciality of this engine

### JOURNALS PUBLISHED

- 1) A Paper on " **Energy efficient analysis of bulb turbine in the environment of cavitation with model study in small hydroelectric power plants** " got published in January -February 2019 issue of **INDIAN JOURNAL OF POWER AND RIVER VALLEY DEVELOPMENT** co-authored by Dr. P Sridharan, Associate Professor, Dept. of Mechanical Engineering.
- 2) A Paper on "**Cloud Based SCADA System for Integrated Water Resources Development and Management Approach with Special Reference to Kannur District**" co authored by Dr. P Sridharan, Associate Professor, Department of Mechanical Engineering, was published in *International Journal of Applied Science and Engineering*, 6(2): 129-142, December 2018
- 3) A paper on "**Design, fabrication and performance analysis of solar dryer integrated with thermal energy storage**" authored by Mr. Lince Thomas, Assistant Professor, Department of Mechanical Engineering, was published in **Journal of alternate energy sources and technologies**.
- 4) A paper on "**Implementation strategy of Lock out and Tag out (LOTO) Electrical system for paper industry**" " co authored by Dr. P Sridharan, Associate Professor, Department of Mechanical Engineering, was published in *International Journal of Applied Science and Engineering*, 6(2): 01-10, December 2018

# AUTOCAD WORKSHOP



A workshop on AutoCAD for the Technical Staff of Department of Mechanical Engineering was conducted on 04-01-2019 to 06-01-2019. The classes were handled by Mr. Shaji George, Asst. Professor, Dept. of Mechanical Engineering and Mr. Anil Johny, Technician, Dept. of Mechanical Engineering.

## **Program Outcomes (POs)**

- PO1: Engineering knowledge
- PO2: Problem analysis
- PO3: Design/development of solutions
- PO4: Conduct investigations of complex problems
- PO5: Modern tool usage
- PO6: The engineer and society
- PO7: Environment and Sustainability
- PO8: Ethics
- PO9: Individual and team work
- PO10: Communication
- PO11: Project management and finance
- PO12: Life-long learning

## **Program Specific Outcomes (PSOs)**

- PSO1: An ability to use computer aided modelling and simulation tools to provide solutions to mechanical engineering problems.
- PSO2: An ability to develop and implement a process in a well-planned manner leading to a demonstrable product

**Staff Editors: Mr. Hari Prasad M K & Mr. Gokulnath R**

**Student Editors: Mr. Avinash S Pramod & Mr. Khamarudheen**