



# VIMAL JYOTHI ENGINEERING COLLEGE. CHEMPERI

## MECHNOVA



APRIL 2018

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### KNOW A FAMOUS MECHANICAL ENGINEER-SERIES 6



Catherine Anselm Gleason (November 25, 1865 – January 9, 1933) was an American engineer and businesswoman known both for being an accomplished woman in the predominantly male field of engineering and for her philanthropy. By fourteen, Kate was the company bookkeeper and in 1884 she became the first woman engineering student to enroll in the Mechanical Arts program at Cornell University. She strengthened her father's business by becoming one of the first American manufacturers to expand to Europe.

### 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

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## NATIONAL SEMINAR ON APPLICATIONS OF SCIENCE IN AGRICULTURAL PRACTICES



On 28<sup>th</sup> February 2019, the National Science Day, the Department of Mechanical Engineering of Vimal Jyothi Engineering College Chempuri, organised a National seminar on Applications of Science in Agricultural Practices. Communicating Science for all, was the theme and motto of the program. The event was sponsored by ‘Kerala State Council for Science Technology and Environment’ and supported by ‘Department of Science and Technology’ (DST), Government of India. In the forenoon session, a workshop on developing an automated irrigation system for precision farming was conducted for school students. As a part of it the school students were given a lecture and hands on training on various robotic equipments that can be used in the field of agriculture. With the motto of meeting the technical requirements of farmers of Malabar, a Seminar on recent developments in the field of agriculture, was conducted for the farmers, in the afternoon session.

## AN INVITED TALK ON 'VALUE ADDED PROGRAMS IN MECHANICAL ENGINEERING' BY SMEC LABS, COCHIN



The students from second, third and fourth year of Mechanical Engineering was offered an Invited Talk by SMEC labs, COCHIN on the topic 'Value added programs in Mechanical Engineering'. The intention was to provide the students an insight into the various skill development fields in Mechanical engineering. The program was conducted on 01-02-2019.

## WORKSHOP ON ROBOTICS AND AUTOMATION



With the intention of training the students in the field of Robotics and Automation, a one day workshop was conducted by the Department of Mechanical Engineering on 09-03-2019. The session was open to students from all the departments.

## VISIT BY NAAC PEER TEAM



The NAAC Peer team visit to our institution was held on 12<sup>th</sup> & 13<sup>th</sup> March 2019. The team included

- 1) Dr. Dinesh Kumar, Vice Chancellor, J C Bose University Of Science And Technology Ymca, Faridabad
- 2) Dr. Gopal Chandra Hazarika Professor, Department of Mathematics , Dibrugarh University, Dibrugarh
- 3) Dr. Abhay Kumar Professor, School Of Electronics, Indore

The preparedness for the visit and various activities conducted by the department was acknowledged by the team.

*Our college is accredited by NAAC with a B+ grade.*

## ONE DAY WORKSHOP ON MOODLE LEARNING



Department on collaboration with IIT Bombay has organising a one day workshop on 'Moodle Learning Management System' on Friday, 15 March 2019 for Teachers and System administrators/Computer technical persons. This workshop was being organised by the Teaching Learning Centre (ICT) at IIT Bombay, a scheme of 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNMTT), an initiative of the Ministry of Human Resource Development, Government of India. This workshop was conducted by IIT Bombay, through RC1447 VJEC. Most of the faculty from the Department of Mechanical Engineering attended the workshop. As a part of preparedness for the workshop, Mr. Sunil Paul, Associate Professor and Mr. Anil Johny, Technician from the Department of Mechanical Engineering attended the Coordinators workshop on Moodle at IIT, Bombay on 01-03-2019.

## PTA MEETING S4 ME A AND B (2017-21 BATCH)

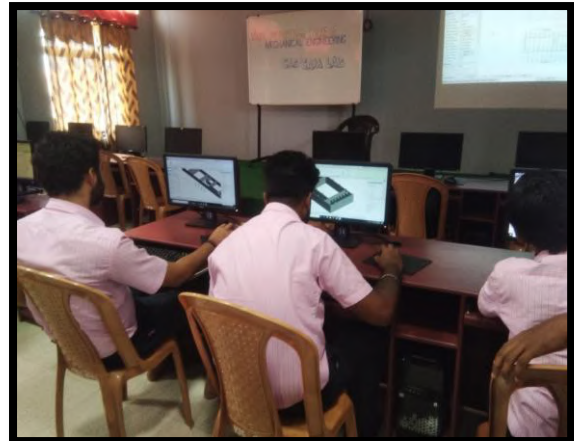
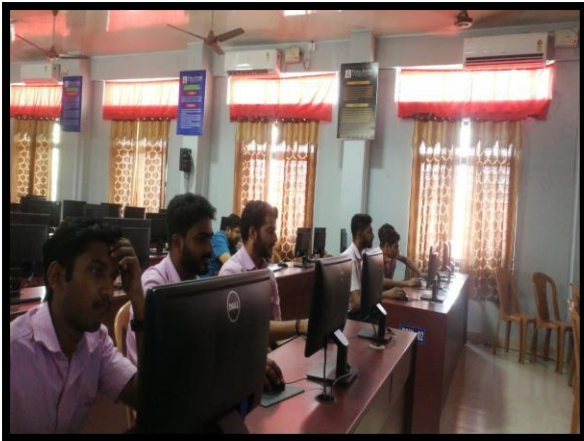


The PTA meeting of S4 ME 2017-2021 batch was held on 7th March 2019 at Seminar hall, ME department at 10:30 AM , started by seeking blessing from the almighty. Cdr. Raju K Kuriakose (Retd), HOD, the Department of Mechanical Engineering, addressed the parents and highlighted the importance of conducting PTA meetings regularly. He also briefed the result analysis of first internal exams to them. Also mentioned about the job oriented training courses, planned for the mechanical engineering students, in the coming semester.

### PAPER PRESENTATION

- 1. Fuzzy based Vibration Control in Small Hydroelectric Power Plants**, Dr.P.Sridharan,Dr.N.Kuppuswamy,P.R.Bijisha, International Conference on Science, Technology, Engineering and Management (ICSTEM 19), KIT, COIMBATORE, March 22-23 2019.
- 2. Optimization of Guide Vane Sealing in Pumped Storage Power Plants**, K P Parthiban, Dr.P.Sridharan, Dr.N.Kuppuswamy, International Conference on Science, Technology, Engineering and Management (ICSTEM 19), KIT, COIMBATORE, March 22-23, 2019.

## MOU WITH BIMLABS AND TRAINING IN MEP- BUILDING INFORMATION MODELLING



A MOU was signed by the college with BIMLABS Engineering services, Trivandrum. To make the students familiar with the concepts and applications in the field of BIM, a ten days training is being conducted for the students of third and fourth semester of the Department. Building information Modelling is an emerging field where the students can do their specialization in the field of building construction. At the end of the training students will be able to design and implement the electrical and mechanical systems inside a building using revit software which is the future of building construction. The training began on 23-03-2019.

## ENDURO 2019



Vimal Jyothi Engineering College, Chemperi, SAE Collegiate club – Invicto Racing 3.0 in the year 2019 was among one other team of eligible competitors from Kerala to take part in the ESI 2019 event. The event was scheduled from 15.Feb 2019 to 19.Jan 2019 at the PCET's Nutan Maharashtra Institute of Engineering and Technology, Pune.

## ESVC CHAMPIONSHIP-2019



A team of students from the Department of Mechanical Engineering, participated in the Electric Solar vehicle competition Chandigarh University from 25<sup>th</sup> to 31<sup>st</sup> March 2019. ISIE-ESVC is not only a Motorsport. It is ISIE INDIA mission to promote the awareness and skill about E-Mobility and Solar Energy among youth. ISIE-ESVC provides various platform/opportunity to showcase their skill, innovation, research and manufactured vehicle at national and international level. ISIE-ESVC provides opportunity to teams to advance their achievements that help them for career building in interested field. **TEAM ILLUMINATI of SAE VJEC Collegiate club has secured an overall 28th rank in offshore and onshore adventure class events. The team has also won the " HERO ELECTRIC SPIRIT AWARD 2019"**



## THIRD DAB MEETING



The third DAB meeting was conducted on 08-03-2019 with the agenda of Department Vision, Mission , PEOs and PSOs. The management was represented by Fr. Jinu Vadakkemulanjanal, Administrator, VJEC and Mr. Sebastain, PRO, VJEC. Mr. Aswin Jose, Director of KM OIL INDUSTRIES was the industry representative. Dr. Benny Joseph, Principal, VJEC, Cdr (Retd.) Raju K K, HOD, ME and the faculty members from the department attended the meeting.

## CONGRATULATIONS..

- 1) Mr. Aravind Manohar, Mr. Akhil C. Sajan, Mr. Nikhil Narayanan and Mr. Sabin Suresh N.of S8 ME are placed by Accenta through campus recruitment.
- 2) Mr. Asish Mathew of S8 ME is placed in TCS.
- 3) Mr. Sreenadh G V, Mr. Naveen E V, Mr. Anuraj K, Mr. Akhil K P of S8 ME are selected by IBS for placement.
- 4) Mr. Aswin Biju and Mr. Rohith P V and Mr. Vaishakh P of S8 ME are offered placement by Agile Business consulting.
- 5) Mr. Rohith P V, Mr. Sreehari P, Mr.K Anuraj, Mr. Mohammed Mishal and Mr. Sidharth P are offered placement by INFINIZ IT SOLUTIONS.
- 6) M P Muhammed Farseen Hallaj OF S8 ME is offered placement by BOLT IOT.
- 7) Mr. Asish Mathew, Mr. Asish Prakash and Mr. K Anuraj are placed by FEDERAL BANK.
- 8) Mr.K Anuraj of S8 ME is shortlisted for placement by COGNIZANT.
- 9) Ms. Vedha Hemanth of S8 ME is placed by AMAZON.

## ENTREPRENEURSHIP AWARENESS CAMP



The Department of Mechanical Engineering organised an ENTREPRENEURSHIP AWARENESS CAMP from 28<sup>th</sup> to 30<sup>th</sup> March 2019. The event was sponsored by National Science & Technology Entrepreneurship Development Board (NSTEDB, Department of Science & Technology, Government of India, New Delhi). The program was conducted through Entrepreneurship Development India, Ahmadabad under DST-NIMAT Project 2018 -2019. The camp was opened to all departments.

## **TALK ON ROBOTICS**



The Department of Mechanical Engineering conducted a talk on the subject Robotics. Mr Sunil Paul, Associate Professor, Department of Mechanical Engineering presented the event. The programme was opened to students from all the departments. A detailed explanation on various Robotic equipments such as line follower robot, obstacle avoiding robot, automatic irrigation system, the quad copter and so on was speciality of the programme.

## **PAPER PUBLICATION**

The article entitled "Energy efficient analysis of bulb turbine in the environment of cavitation with model study in small hydroelectric power plants " by Dr. P Sridharan, Associate Professor, Department of Mechanical Engineering, got published in January -February 2019 issue of *Indian Journal Of Power And River Valley Development*.

# MEXTERIOUS 2K19 - THE ANNUAL TECH FEST



**VIMAL JYOTHI ENGINEERING COLLEGE**

**SRISHTI 2K19** **MEXTERIOUS**

# MEXTERIOUS 2K19

- \* Seminar
- \* Roborace
- \* Robo soccer
- \* Lathe master
- \* Engine assembly
- \* Cycle assembly
- \* Cad Quiz
- \* Space room and VR
- \* Auto show
- \* Dark photography
- \* Workshop

DEPARTMENT OF MECHANICAL ENGINEERING  
7708245371 - Mr. Shamin Muth K.K  
Programme convener - Cdr. (retd.) Raju K K (HOD-ME)

[mexterious\\_2k18](#)



The Department of Mechanical Engineering conducted MEXTERIOUS 2K19, with its full glory and pride on 30<sup>th</sup> March 2019. The stalls and events attracted a huge number of visitors including students from other educational institutions and the public.

## **Program Educational Objectives (PEOs)**

**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.

## **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***