



# VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

## MECHNOVA

NEWSLETTER FROM THE DEPARTMENT OF MECHANICAL  
ENGINEERING



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### LATEST IN MECHANICAL ENGINEERING!!

#### **Automation & smart systems**

The disparity between old and new technologies is larger now than it has ever been, and as a result, retrofitting or upgrading legacy equipment and systems is getting more complicated. It isn't necessary to get a second degree in software engineering, but updated programming skills and a solid understanding of advanced mathematics will be critical to bridging the gap between old and new. Furthermore, many of the components used in these systems will be designed by mechanical engineers.

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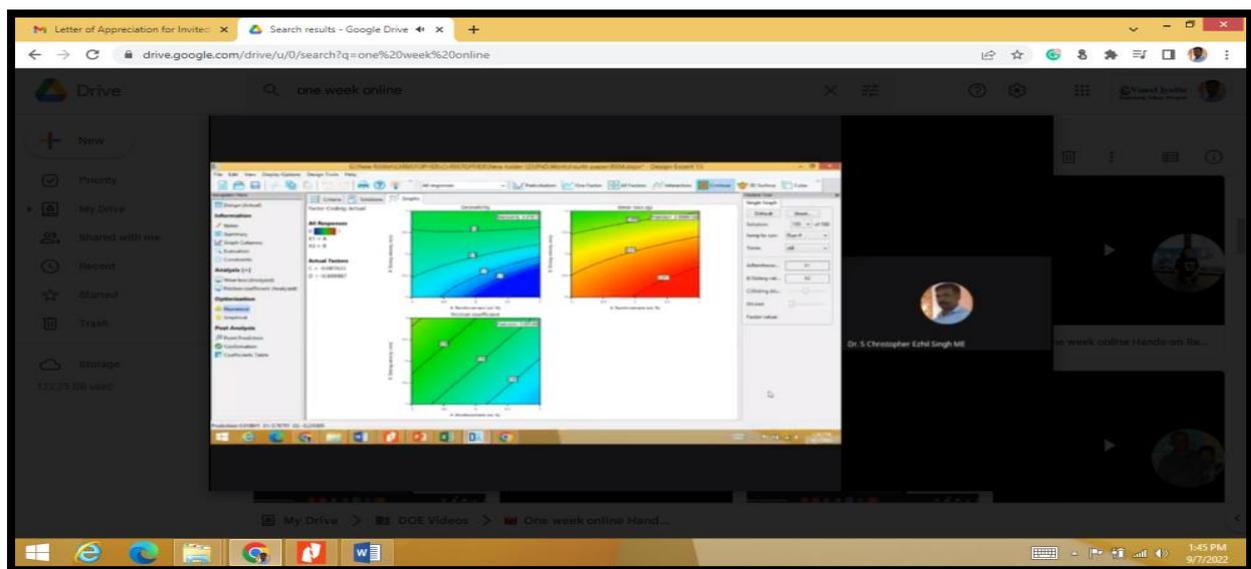
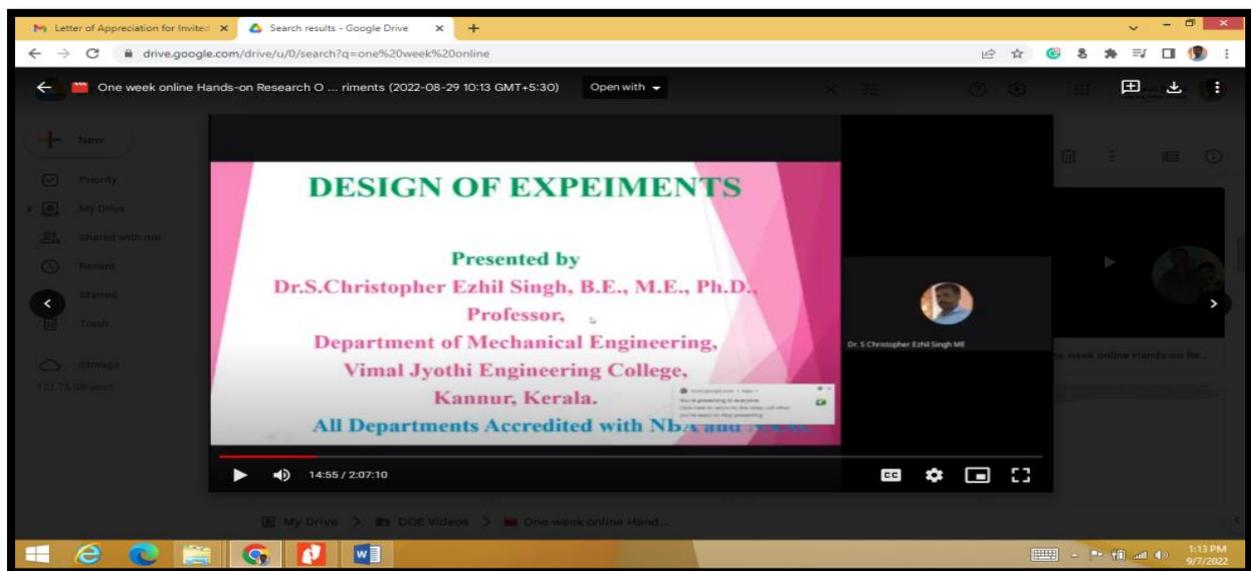
### VISION

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

### MISSION

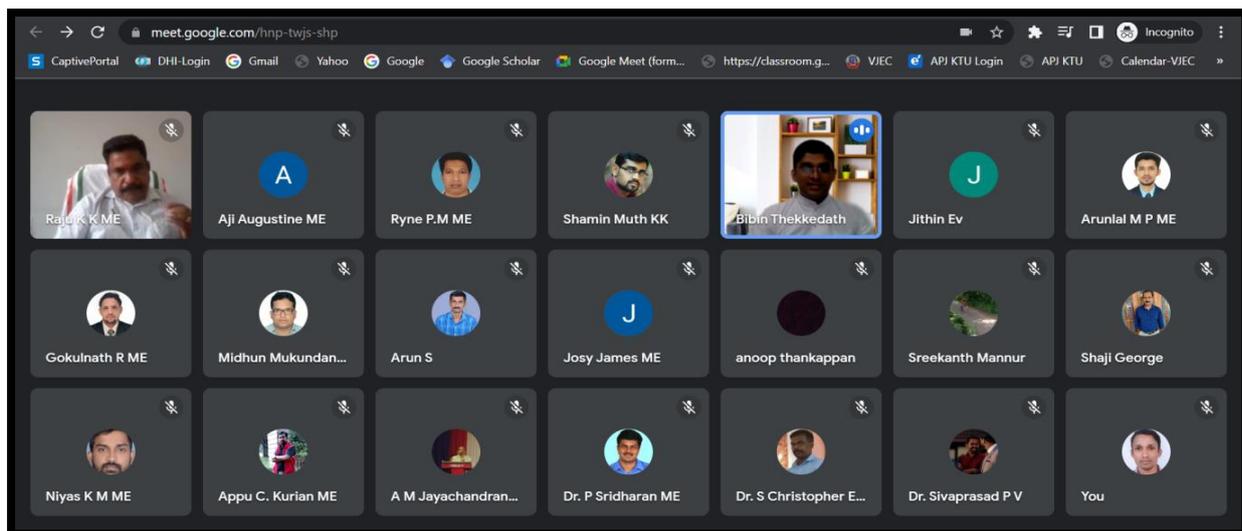
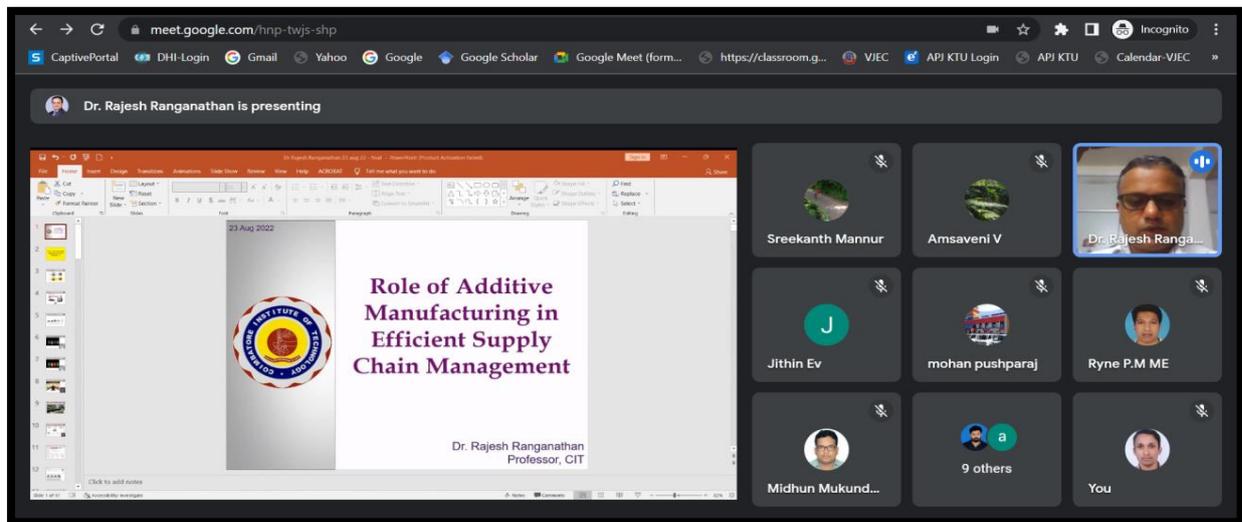
1. Provide a platform to the students towards attaining quality education in Mechanical Engineering.
2. Educate students about professional & ethical responsibilities and train them to build leadership and entrepreneurship qualities for their career development.
3. Create opportunities and guide students in acquiring career oriented jobs in the field of Mechanical Engineering.

## ONE WEEK ONLINE HANDS-ON RESEARCH ORIENTED WORKSHOP ON “DESIGN OF EXPERIMENTS”



The One week online Hands-on Research Oriented Workshop on “Design of Experiments” was held from 29<sup>th</sup> August 2022 to 03<sup>rd</sup> September 2022 with two sessions at 10.30 am to 12.00 pm and 02.30pm to 04.00 pm, organized by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, for faculty, Research Scholars and P.G Scholars from India and abroad. The online workshop was conducted for enriching the faculty members, research scholars in the area of “DOE”. The workshop convener was Dr. S. Christopher Ezhil Singh, M.E., Ph.D., Professor, Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi and workshop Coordinators were Dr. P.Sridharan, M.E., Ph.D., Professor, Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur, Dr. Sreekanth MP, M.Tech., Ph.D Assistant Professor, Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur.

## FDP: CONTEMPORARY BREAKTHROUGHS IN THE TECHNOLOGIES OF INDUSTRY 4.0



KTU Sponsored three days online Faculty Development Program (FDP) entitled “Contemporary Breakthroughs in the Technologies of Industry 4.0” was organized by the Department of Mechanical Engineering during 22 – 24, August 2022. The FDP was inaugurated by Rev. Fr Bibin Thekkedath, Assistant Administrative Officer, VJEC on 20, August 2022. Cdr. (Retd.) Raju K Kuriakose, HOD – ME, VJEC presided over the function in the absence of Principal, VJEC and also delivered the felicitation. Total of 32 Participants were attended the FDP in which 10 participants were from Vimal Jyothi Engineering College. Eminent academicians and industrialists delivered lectures in the areas of additive manufacturing, nano technology, automation and robotics, E – waste, computer vision and deep learning, and e – waste. Dr. Christopher Ezhil Singh S, Professor – ME addressed the participants and concluded the FDP on 24, August 2022. Dr. Sreekanth M P, AP – ME and Dr. Jithin E V, AP – ME coordinated the event.

## FDP LECTURE ON 'FUSION 360'



The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur organized a Guest lecture on Fusion 360 on 19th of September 2022, for the faculty from the Department. It was conducted as an initiation of the FDP workshop on Fusion 360. The convener of the program was Cdr. (Rtd.) Raju K. Kuriakose, Head of the Department of Mechanical Engineering and was coordinated by Mr. Aji Augustine, Assistant Professor, Department of Mechanical Engineering and Mr. Gokulnath R, Assistant Professor, Department of Mechanical Engineering. The resource person was Mr. Anil, Technical Engineer at BIMLABS Global. Ten faculty participated in the session. The session proved to be an introduction to workshop on Generative design with FUSION 360. The session included introduction to Autodesk, applications of Fusion 360, Autodesk account creation, Introduction of Fusion 360 UI, Data collaboration, Sketching, Constraining, 3-D modeling with examples/ Introduction of Generative Design.

## IEEE ROBOTICS AND AUTOMATION SOCIETY



IEEE Robotics and Automation Society Student's Branch Chapter VJEC was inaugurated on 20-09-2022 by Dr. Mini Ulanat, Systems Manager, Cochin University of Science & Technology and Chair, IEEE Kerala Section. Dr. Benny Joseph, Principal, VJEC delivered the Presidential Address. Cdr. (retd.) Raju K Kuriakose HOD, ME welcomed the gathering. Mr. Tinu George (S5 ME), Chair, IEEE RAS SBC VJEC presented the IEEE Code of Ethics. Rev. Fr. Lazar Varambakath, (Bursar, Vimal Jyothi Institutions) gave the Benedictory Address. Dr. S Christopher Ezhil Singh, Professor, ME and IEEE RAS SBC VJEC, Staff Advisor delivered Vote of thanks.

## GRADUATION DAY 2022



The college graduation day for 2016-20, 2017-21 and 2018-22 batches was conducted on 17-09-2022. Dr. S Ayoob, pro-vice chancellor of Kerala technological University was the Chief Guest for the function. About 400 students, their parents, HODs and the college staff participated in the function. Msgr. Antony Muthukunnel, Chairman, Vimal Jyothi group of institutions led the graduation day pledge. Rev. Fr. James Chellamkottu, Manager, Vimal Jyothi group of institutions honoured the gathering.

## **PAPER PUBLICATION**

1. Research paper by Dr. Jithin E V (Assistant Professors, ME) was accepted for publication in the "International Journal of Hydrogen Energy". Impact Factor: 7.139. Publisher: Elsevier
2. Dr. Sridharan P (Associate Professor, ME) published a paper on "A Review on Power Generation Enhancements in a Pumped Storage Powerhouse by Using Appropriate Guide Vane Sealing Material" in Journal of Alternate Energy Sources and Technologies Volume 13 Issue 2.

## **FDPs ATTENDED**

1. The following faculty from the department of Mechanical Engineering Attended KTU sponsored Three Days online FDP on "Contemporary Breakthroughs in the Technologies of Industry 4.0" during 22 - 24, August 2022.
  - 1) Mr. Arunlal M P
  - 2) Mr. Gokulnath R
  - 3) Mr. Ryne P.M
  - 4) Mr. Rameshan K P
  - 5) Mr. Ramprasidh
  - 6) Mr. Midhun Mukundan M K
  - 7) Mr. Shaminmuth K K
  - 8) Mr. Aji Augustine
  - 9) Mr. Shaji George
2. The following faculty from the department attended "One-week online Hands-on Research Oriented workshop on Design of Experiments" from 25 August 2022 to 01 September 2022.
  - 1) Mr. Dilin Dinesh
  - 2) Mr. Gokulnath R
  - 3) Mr. Shaji George
  - 4) Mr. Ryne PM
  - 5) Mr. Midhun Mukundan M K
  - 6) Mr. Mejo M Francis
  - 7) Mr. Aji Augustine
  - 8) Mr. Niyas KM
  - 9) Dr. Jithin EV
  - 10) Mr. Appu C Kurian
3. Dr. Sreekanth MP (Assistant Professor, ME) Completed Foundation Level of Innovation Ambassador (IA) Online Training Organized by Ministry of Education's Innovation Cell & AICTE on 30, August 2022.
4. Mr. Gokulnath R (Assistant Professor, ME) attended Two Days National Seminar (Online Mode) On "THE IMPORTANCE OF OUTCOME BASED EDUCATION IN A MODERN EDUCATIONAL SETUP" conducted by Internal Quality Assurance Cell, Hindusthan Institute of Technology, Coimbatore on on 21st & 22<sup>nd</sup> September 2022.
5. Mr. Aji Augustine (Assistant Professor, ME) attended 5 days online FDP on "Cognitive Skills, Design, and Critical Thinking" Organised by NIT Mizoram (Sep19-23).

## **FACULTY ACHIEVEMENT**



**DR. S CHRISTOPHER EZHIL SINGH**

Dr. S Christopher Ezhil Singh (Professor, ME, VJEC) delivered a technical talk on “Mechanical Properties of Magnesium Based Alloys on Bio-implants”, as a resource person in National Level Online Faculty Development Program on “Current Trends and Innovations in Biological Sciences”, at Chettinad Academy of Research and Education on 06-09-2022.

## **2018-22 MECHANICAL ENGINEERING BATCH TOPPER**

**CONGRATULATIONS!!**



**Ms. SANDRA MARIA SAJY**

**CGPA 8.47**

## KNOW OUR ALUMNI



**MR. ANTONY JOSEPH**

Mr. Antony Joseph is an alumni of the Department of Mechanical Engineering, Batch: 2011-2015.

He is currently pursuing his PhD in Materials Science and Engineering from National Institute of Technology Calicut. His M-Tech is in Nanoscience and Engineering

He has worked as Design Engineer in Techjeeva Technologies Pvt. Ltd., Kochi and also as QA/QC Executive in Highness FRP Industries, Perumbavoor.

While at VJEC, he has held the following key positions such as IEEE Robotic Team Head, NSS Secretary, Robotic Club lead, SAE Member and Organizer of Department fest 2013

## FAREWELL



Farewell to Mr. Rameshan K P, Associate Professor, Department of Mechanical Engineering. Best wishes for your future endeavours sir.

## ONAM CELEBRATION

The college Onam celebration AARAVAM 2022, was conducted on 03-09-2022. The various events were rally with Chenda, Thiruvathira, Uriyadi etc followed by lunch.



### **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.

### **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:** Ability to use advance design, modelling, analysis, manufacturing tools and techniques to provide a solution in mechanical engineering problems.

**PSO2:** Ability to design, develop, implement and manage a product development process.

#### **Staff Editors:**

**MR. GOKULNATH R (ASST. PROF, ME), MR. ARUNLAL M P (ASST. PROF, ME)**

#### **Student Editors:**

**MS. ANJU M (S7 ME), MR. AKASH P (S7 ME)**