



VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

MECHNOVA



OCTOBER 2020
VOL 8, ISSUE 5

KNOW A FAMOUS MECHANICAL ENGINEER-SERIES 14



Thomas Savery

Thomas Savery (1650 – 1715) was an English inventor and engineer, born at Shilstone, a manor house near Modbury, Devon, England. He invented the first commercially used steam powered device, a steam pump which is often referred to as an "engine", although it is not technically an "engine". Savery's "engine" was a revolutionary method of pumping water, which solved the problem of mine drainage and made widespread public water supply practicable.

VISION

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

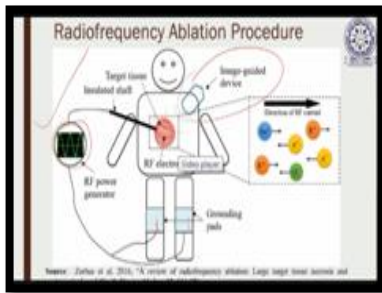
MISSION

- 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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FDP ON FRONTIER'S OF RESEARCH IN THERMAL SCIENCES



The online one week Faculty Development Programme on “Frontiers of Research in Thermal Sciences” was held from 27thAugust 2020 to 03rdSeptember 2020 with two sessions at 11.00 am to 12.00 pm and 03.00pm to 04.00pm, organized by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur using Google Meet online platform for faculty, Research Scholars and P.G Scholars from India and abroad. The programme convener was Dr. S. Christopher Ezhil Singh (Professor, Department of ME, VJEC) under the guidance of Cdr. (Retd.) Raju K. Kuriakose Associate Professor and Head, Department of Mechanical Engineering, VJEC. The chief guest was Dr. OOI Kim Tiow, Professor, Chair, School of Mechanical and Aerospace Engineering, Nanyang Avenue, Singapore. The other resource persons included faculty from IITs, NITs and other institutes all over India. The session Coordinators faculty members were Dr. P. Sridharan, Mr. Mejo Francis, Mr. Appu C Kurain, Dr. M. P. Sreekanth, Mr. Jerin Saji, Mr. Arun B.S and Mr. Arun Lal. The total no of participants in the FDP programme were 477.

DONATING ROBOT NIGHTINGALE 19 & PEDAL OPERATED SANITIZER DISPENSERS



Vimal Jyothi is continuing its commitment in fighting COVID-19. Rev.Fr.Pious Padinjaremuriyil, Asst. Manager, VJEC handed over our fifth Robot in the Nightingale-19 series to Dr. Kuriakose, Principal, Govt. Medical College, Kannur (Pariyaram) on 01/08/2020. This robot is sponsored by our first batch alumni (2002-2006) under the leadership of Mr. Praviijith Pathra Valappil. Rev.Fr.Pious Padinjaremuriyil, Asst. Manager, handed over 15 numbers of pedal operated sanitizer dispensers, sponsored by Mr.Jubin Elayanithottathil, VJEC alumnus to the medical college tomorrow. The research team under the leadership of Dr. T D John (Professor, Department of Mechanical Engineering and Dean Research, VJEC), Mr.Sunil Paul (Associate Professor, Department of Mechanical Engineering) & Dr. Sampathkumar (Professor, Department of Applied electronics and instrumentation) designed and fabricated Nightingale-19 & sanitizer dispensers.

PERENNIAL FUND FOR PARTICIPATING INSTITUTES OF UBA

A Perennial fund award of Rs. 1,75,000- has been awarded to our college and we are among the 78 Participating Institutes of UBA receiving the fund.

The award is given to those institutions implementing the UBA programs in an effective manner i.e., participating in Gram Sabhas, Preparing Village Development Report, technical interventions for the holistic development of the adopted villages.

The programs were conducted under the leadership of Dr. T D John (Professor, Department of Mechanical Engineering and dean research, VJEC) and Dr. Sampath Kumar, HOD, AEI. Vimal Jyothi can now supply and instal Copra/Rubber drying kiosks to 5 adopted villages with the amount sanctioned.

7TH PROGRAMME QUALITY IMPROVEMENT AND ASSESSMENT COMMITTEE (PQIAC) MEETING

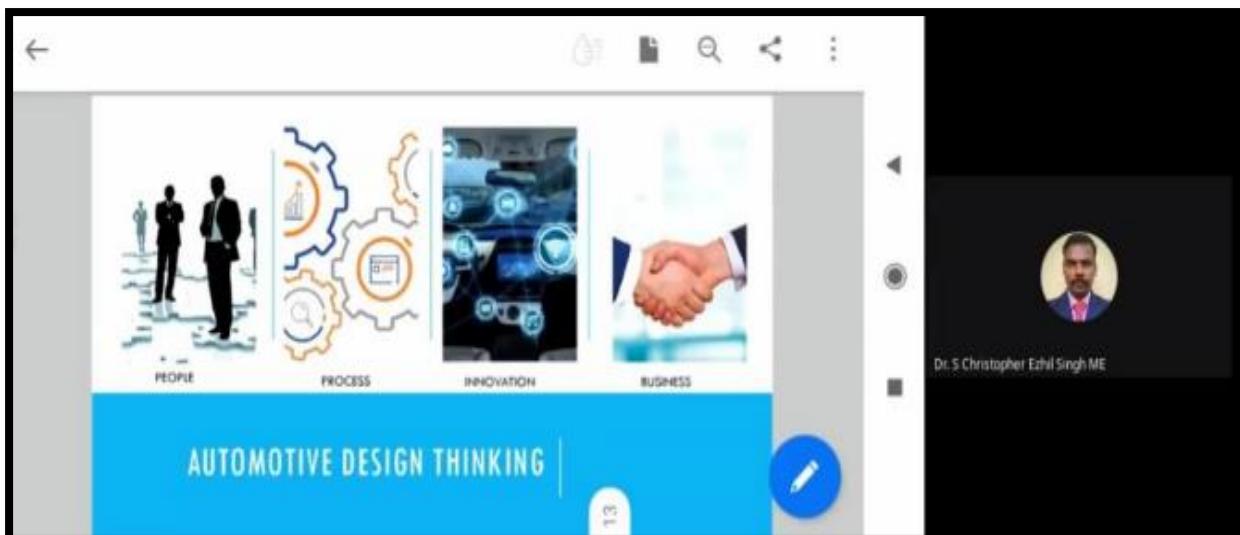
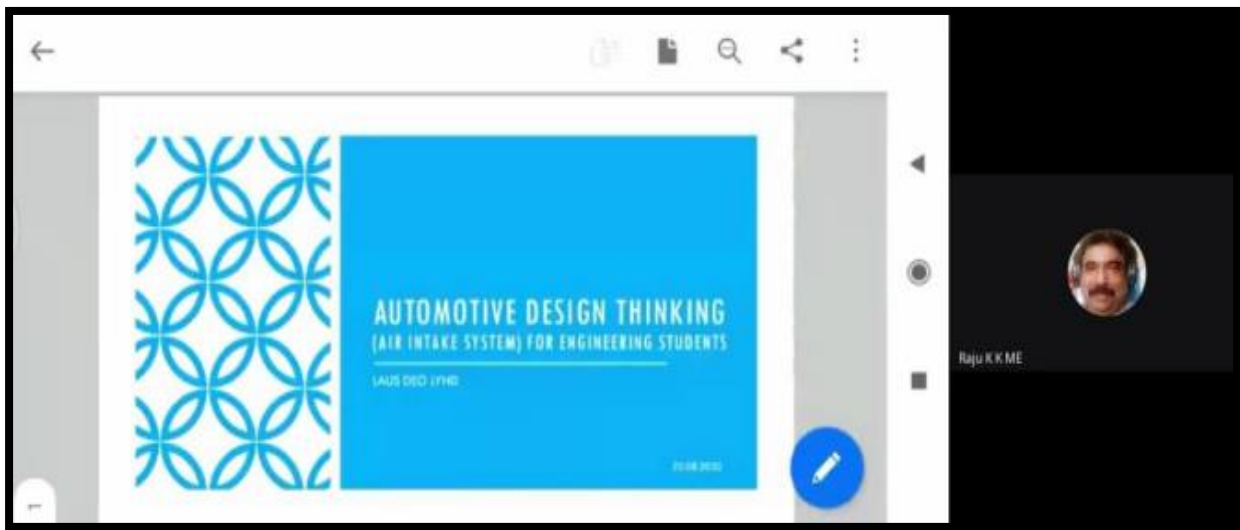
The Programme Quality Improvement and Assessment Committee (PQIAC) of the Department of Mechanical Engineering held on 12th August 2020 in the office of the Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, and Kannur- 670632 at 09:00 A.M.

Following members were present:

1. Cdr. (Rtd.) Raju K Kuriakose Chairman, Head of the Department/ME
2. Dr.S.Christopher Ezhil Singh Convener, Prof/ME
3. Dr.P.Sridharan Member, Associate Professor/ME
4. Dr.T.D.John Member, Dean Research, VJEC
5. Mr.Ryne PM Member, Associate Professor/ME
6. Mr.Mejo.M.Francis Member Assistant Professor/ME
7. Dr.M.P.Sreekanth Member, Assistant Professor/ME
8. Mr.Shaminmuthu K.K Member, Assistant Professor/ME

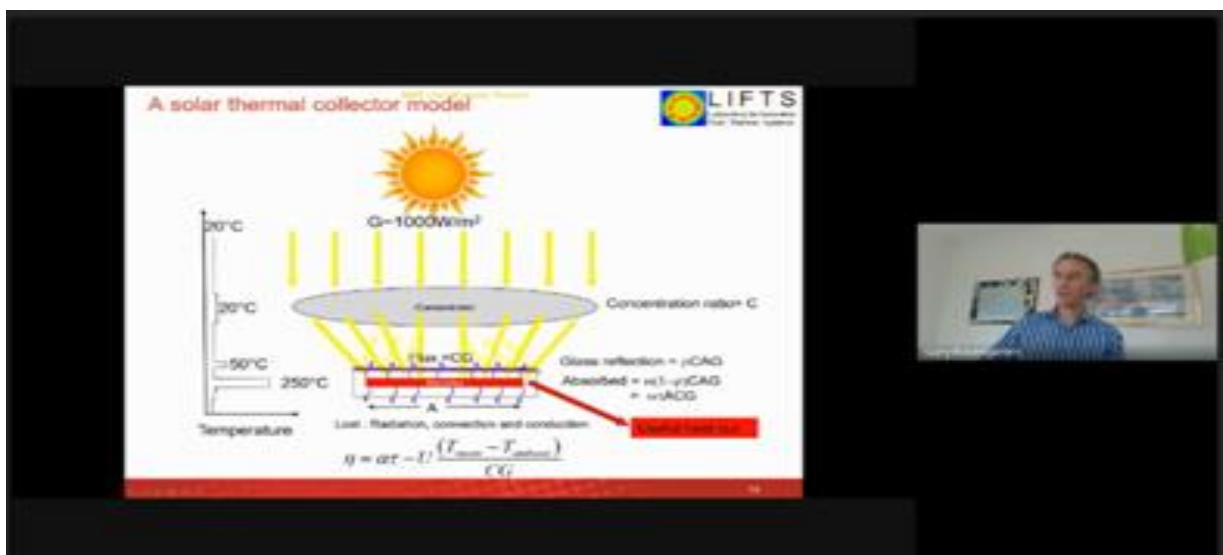
The Chairman of the PQIAC welcomed all the members and briefed the committee about the academic progress and other major activities of the Mechanical Dept. in the last semester. The action points/directives from previous PQIAC, DAB and staff meetings were also included in this discussion.

WEBINAR ON “AUTOMOTIVE DESIGN THINKING”



The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur organized a webinar through Google Meet on 22nd of August 2020 at 11:00 AM for second, pre-final and final year Mechanical Engineering students on Automotive Design Thinking. It was conducted as a curricular gap bridging event related to “Advanced trends in Automobile Design and Drive Train Mechanisms” for pre-final year and final year students. The convener of the program was Cdr. (Retd.) Raju K. Kuriakose, HOD, Department of Mechanical Engineering and was coordinated by Dr. Christopher Ezhil Singh, Professor, Department of Mechanical Engineering, Mr. Mejo M. Francis, Assistant Professor, Department of Mechanical Engineering and Mr. Jerin Saji, Assistant Professor, Department of Mechanical Engineering. The resource persons was Mr. Laus Deo Lynd, Deputy General Manager, SOGEFI GROUP, Bangalore. The objective of the webinar was to develop an insight on Automotive Design and its Design scope in the field of Automotive Industry. It would help the students to get fundamental knowledge on automotive design and will be interested to take up Design and Simulation projects in the field of Automobile Engineering.

WEBINAR ON “NEXT GENERATION SOLAR THERMAL COLLECTORS”



The webinar on “Next Generation Solar Thermal Collectors” was held on 14th September 2020 at 11.00 am to 12.15pm, organized by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, using online platform, for faculty, Research Scholars and P.G Scholars from India and abroad. The resource person was Dr. Gary Rosengarten, Professor, Department of Mechanical and Automotive Engineering, RMIT University, Australia. The webinar convener was Dr. S. Christopher Ezhil Singh (Professor, Department of ME, VJEC) under the guidance of Cdr. (Retd.) Raju K. Kuriakose (Head of Mechanical Engineering Dept.) The webinar Coordinators were Dr. P.Sridharan, (Associate Professor Department of ME, VJEC), Mr. Mejo Francis (Assistant Professor, Department of ME,VJEC), Mr. Appu C Kurain (Assistant Professor, Department of ME,VJEC), Dr. M.P.Sreekanth (Assistant Professor, Department of ME, VJEC) and Mr. Arun B.S (Assistant Professor, Department of ME, VJEC) and Mr. ArunLal (Assistant Professor, Department of ME, VJEC). The online webinar was conducted for enriching the faculty members in the area of “Thermal Sciences”. The total no of participants in the programme were 155.

WEBINAR ON “ADVANCES IN ENERGY RESEARCH”



Wind turbine

- A wind turbine is a device that converts kinetic energy from the wind.
- Power = $\frac{1}{2} \times \rho \times A \times V^3$
- Where ρ = air density = 1.23 kg/m³ at sea level
- A = swept area in square meters
- V = wind velocity in meters per second (m/s)

The slide includes two images of wind turbines: one is a large white turbine on a hill, and the other is a smaller turbine on a roof. A small video inset of Dr. James Varghese is visible in the bottom right corner of the slide.

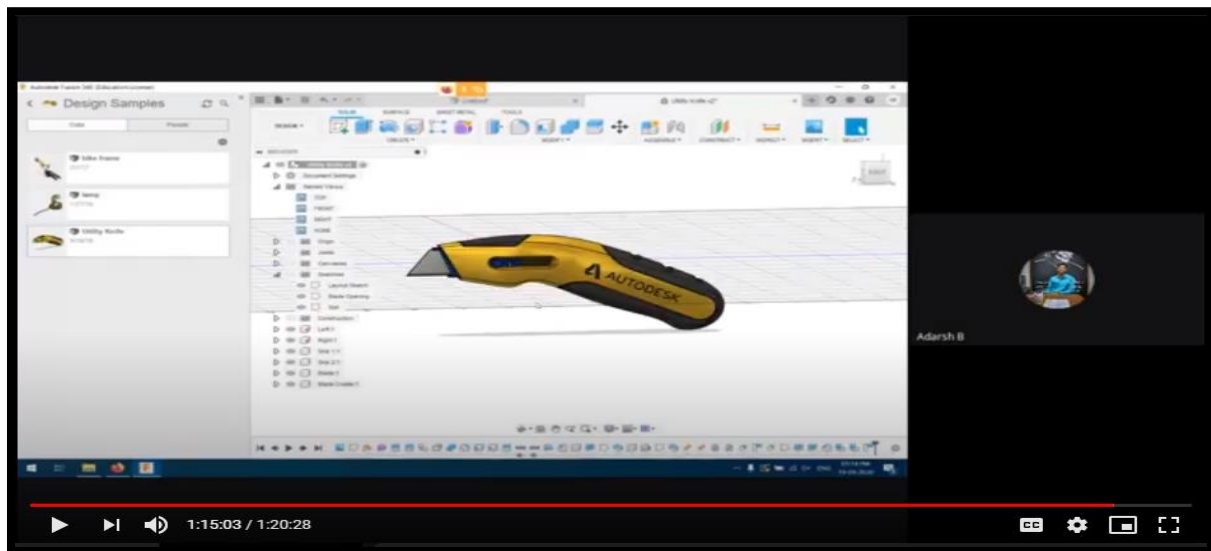
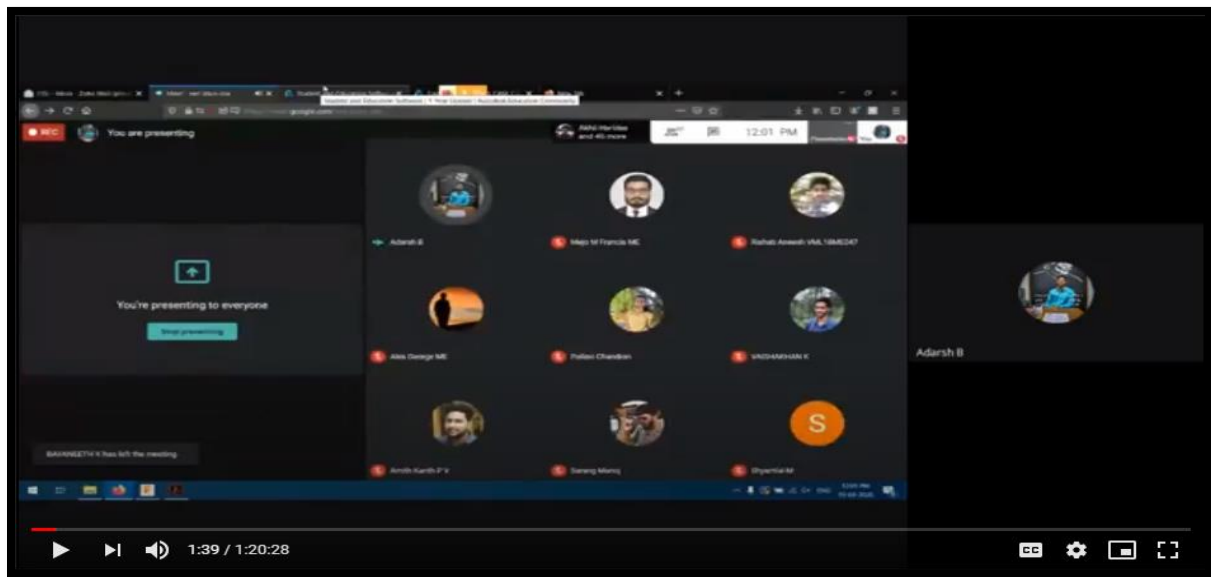
The webinar on “Advances in Energy Research” was held on 05th September 2020 at 03.00 pm to 4.00pm, organized by Department of Mechanical Engineering, VimalJyothi Engineering College, Chemperi, Kannur using Google Meet online platform for faculty, Research Scholars and P.G Scholars from India and Abroad. The online webinar was conducted for enriching the faculty members in the area of “Thermal Sciences”. The resource person was Dr. James Varghese, Head & Professor, Department of Mechanical Engineering, School of Engineering, CUSAT, Kochi, Kerala, India. The webinar convener was Dr. S. Christopher Ezhil Singh (Professor, Department of ME, VJEC) under the guidance of Cdr. (Retd.) Raju K. Kuriakose (Head of Mechanical Engineering Dept.). The webinar Coordinators were Dr. P. Sridharan, (Associate Professor Department of ME, VJEC), Mr. Mejo Francis (Assistant Professor, Department of ME, VJEC), Mr. Appu C Kurain (Assistant Professor, Department of ME, VJEC), Dr. M.P. Sreekanth (Assistant Professor, Department of ME, VJEC) and Mr. Arun B.S (Assistant Professor, Department of ME, VJEC) and Mr. Arun Lal (Assistant Professor, Department of ME, VJEC). About 125 members participated in the session

WEBINAR ON “IN-CYLINDER FLOW ANALYSIS IN AN IC ENGINE USING PIV”



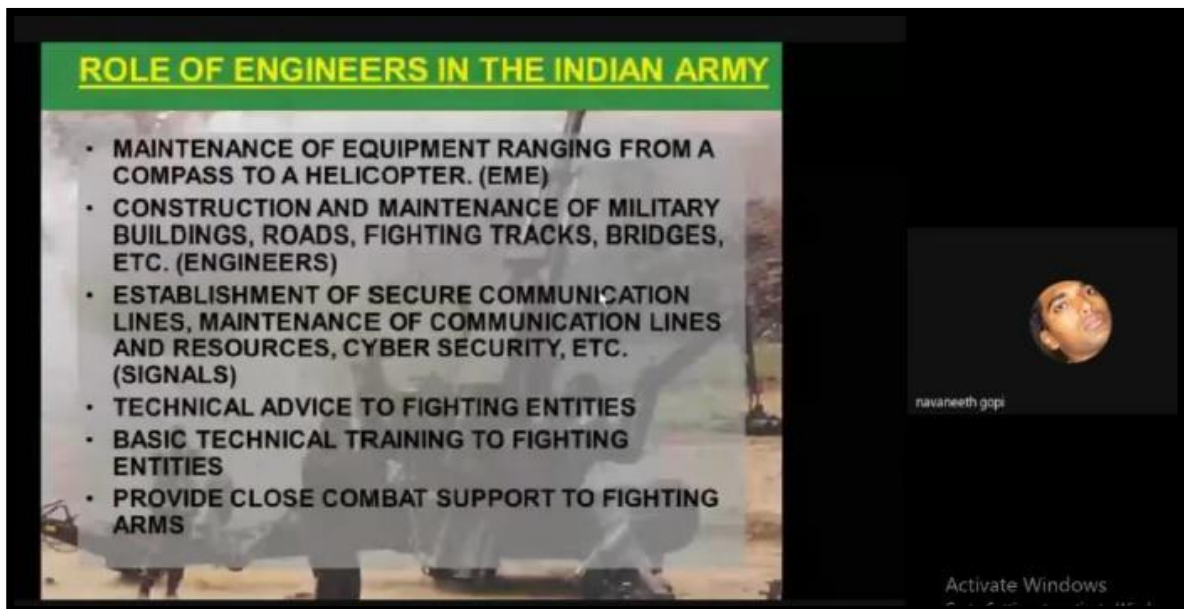
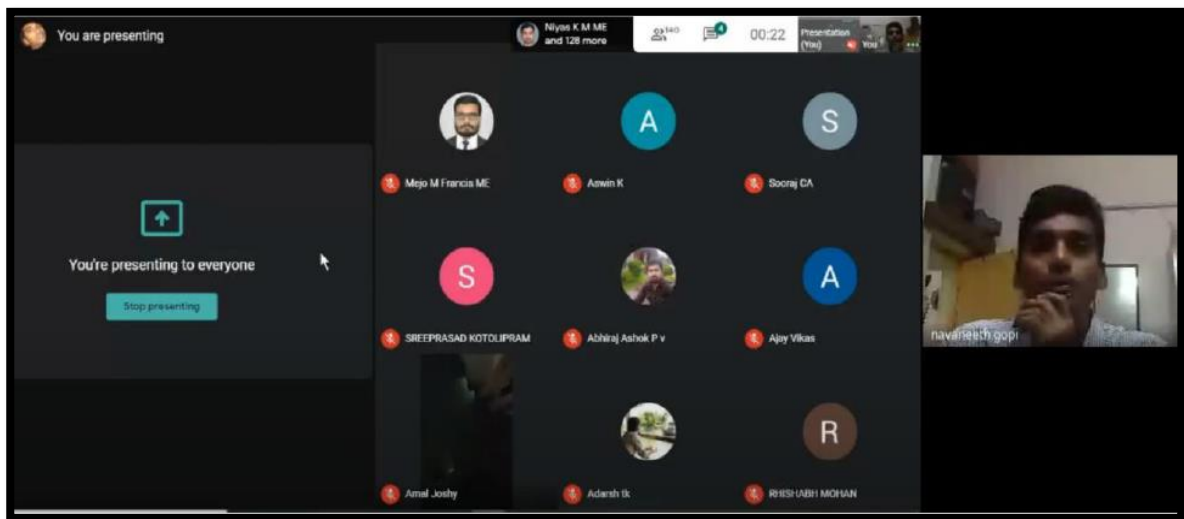
The webinar on “In-cylinder Flow Analysis in an IC Engine using PIV” was held on 04thSeptember 2020 at 03.00 pm to 4.00pm, organized by Department of Mechanical Engineering, Vimaljyothi Engineering College, Chemperi, Kannur using Google Meet online platform for faculty, Research Scholars and P.G Scholars from India and Abroad. The online webinar was conducted for enriching the faculty members in the area of “Thermal Sciences”. The resource person was Dr. J.M. Mallikarjuna (Professor, Internal Combustion Engines Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Madras). The webinar convener was Dr. S. Christopher Ezhil Singh (Professor, Department of ME,VJEC) under the guidance of Cdr. (Retd.) Raju K. Kuriakose (Head of Mechanical Engineering Dept.). The webinar Coordinators were Dr. P.Sridharan, (Associate Professor Department of ME, VJEC), Mr. Mejo Francis (Assistant Professor, Department of ME,VJEC), Mr. Appu C Kurain (Assistant Professor, Department of ME,VJEC), Dr. M.P.Sreekanth (Assistant Professor, Department of ME, VJEC) and Mr. Arun B.S (Assistant Professor, Department of ME, VJEC) and Mr. Arunlal (Assistant Professor, Department of ME, VJEC). The online webinar was conducted for enriching the faculty members in the area of “Thermal Sciences”. The total no of participants in the programme were 125.

ONLINE TRAINING ON FUSION 360 BY BIMLABS



The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur in association with BIMLABS Trivandrum, organized an online training on Fusion 360, using Google Meet on 19-09-2020 (from 11.50 am to 1.20 pm) and on 26-09-2020 (from 10.10 am to 11.40 am). The session was conducted for fifth and seventh semester students from the department of Mechanical Engineering. Students from third and fourth year, from the department participated in the programme. The resource person was M Adarsh Technical engineer, BIMLABS, Trivandrum. The convener of the program was Cdr. (Rtd.) Raju K. Kuriakose, Head of the Mechanical Engineering Department, VJEC. The session was coordinated by Mr. Alex George (Assistant Professor, Department of Mechanical Engineering), Mr. Mejo M Francis (Assistant Professor, Department of Mechanical Engineering), and Mr. Gokulnath R (Assistant Professor, Department of Mechanical Engineering). Fusion 360 is a tool for the precise modelling of 2D and 3D objects, but we can do much more with it, such as animate our designs, render objects, simulate loads, and even prepare models for CNC machining. One hundred twenty four participants were there for the session.

WEBINAR ON “CAREER OPPORTUNITIES FOR ENGINEERS IN INDIAN DEFENCE SECTOR”

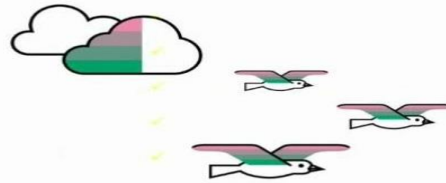


The webinar on Career Opportunities for engineers in Indian Defence Sector was held on 19h Sep 2020 at 11 am to 12 pm, organized by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur using Google Meet online platform for Mechanical Engineering students. The online webinar was conducted as a part of curricular gap filling program activities. The resource person for the session was Major. Navaneeth G, Corps Electronics & Mechanical Engineers/Helicopter Specialist. Cdr. Raju K K (Retd), Head of Department Mechanical Engineering, was convener of the webinar. The program was coordinated by Mejo M Francis, Mr Alex George & Mr.Niyas K M, Assistant Professors Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi. This webinar session provide awareness on Career Opportunities for engineers in Indian Defence Sector.

WEBINAR ON “CAREER PROSPECTS IN TODAY'S DYNAMIC DIGITAL ECONOMY”

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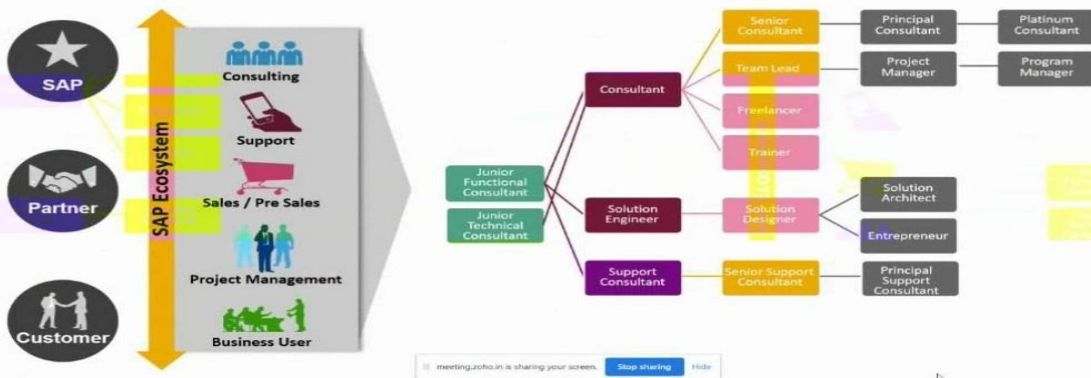
- ✓ About SAP
- ✓ Objective
- ✓ How: Model
- ✓ Who: Eligibility Criteria
- ✓ Approach
- ✓ Next Steps



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Career Roadmap for Students



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On 26th of September 2020, The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur together with Dexler Information Solutions Pvt. Ltd., organized a webinar at 12:30 pm for final year and third year Mechanical Engineering students on Career Prospects in Today's Dynamic Digital Economy. It was conducted as an additional skill acquisition program. The convener of the program was Cdr. (Retd.) Raju K Kuriakose, Head of Mechanical Engineering Department and was coordinated by Mr. Arunlal M P, Assistant Professor, Department of Mechanical Engineering. The resource persons were Mr. S. Senthurapandian, Materials Management trainer, Dexler Information Solutions Pvt. Ltd, Ms. Srividhya S, Strategic Account Manager, Dexler Information Solutions Pvt. Ltd. Bangalore. The objective of the seminar was to create awareness among the students regarding SAP (Systems Applications and Products in Data Processing) Learning Hub Student Edition program. It would help the students to become aware about the importance of SAP in future career.

PROGRAMMES ATTENDED BY FACULTY OF ME (AUGUST & SEPTEMBER 2020)

Cdr. (retd.) Raju K Kuriakose (HOD, ME) attended the following programme:

05 day International FDP "Education 4.0-Future ahead" organised by Sri Sairam College of Engineering, Bengaluru from 10th August -14th August 2020

Dr. S. Christopher Ezhil Singh (Professor, ME) attended the following programmes:

FDPs:

1. FDP "RECENT TRENDS IN ENGINEERING", by Department of Electrical and Electronics Engineering, Universal Engineering College, Vallivattom, 24-08-2020 to 28-08-2020.
2. FDP on "RECENT TRENDS IN FUELS & MANUFACTURING PROCESS", by Department of Mechanical Engineering, Sri Venkateswara Institute of Science & Technology, 10-08-2020 to 16-08-2020.
3. FDP "ADVANCES IN THERMAL SCIENCE", by Kongunadu College of Engineering and Technology, 17-08-2020 to 21-08-2020.
4. FDP on "GREEN ENERGY FOR SUSTAINABLE DEVELOPMENT INDIAN CENTRIC APPROACH", by Department of Mechanical Engineering, Bheemanna Khandre Institute of Technology, Bhalki, 10-08-2020 to 14-08-2020.
5. FDP on "NEW NARRATIVE OF NAAC", by RR INSTITUTE OF ADVANCED STUDIES, 01-08-2020 to 07-08-2020.
6. FDP on "HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION (HVAC & R)", by Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru 03-08-2020 to 08-08-2020.
7. FDP on "ENGINEERING PHYSICS AND MATERIALS SCIENCE" by Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 03-08-2020 to 07-08-2020.
8. FDP on "ADVANCED WELDING TECHNOLOGIES", by Department of Mechanical Engineering, Faculty of Engineering & Technology, JAIN (Deemed-to-be) University, Bengaluru, 04-08-2020 to 08-08-2020.
9. FDP on "OPTIMIZATION TECHNIQUES FOR MECHANICAL ENGINEERS", by Department of Mechanical Engineering, Vignan Institute of Technology & Science, 27/07/2020 to 01/08/2020.
10. FDP on "NANOSCIENCE AND NANOTECHNOLOGY- CURRENT PERSPECTIVES", by Department of Physics & Department of Mechanical Engineering, G. H. Rasoni College of Engineering, Nagpur, 27/07/2020 to 01/08/2020
11. FDP on "RECENT TRENDS IN MATERIAL SCIENCE AND ENGINEERING" (RTMSE-2020), by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, 20-08-2020 to 21-08-2020.
12. FDP on "SMART AND SUSTAINABLE MATERIALS IN CONSTRUCTION", by Department Of Civil Engineering, Sri Venkateswara Institute of Science and Technology, Kadapa, 04-08-2020 to 08-08-2020.
13. STTP on "INSTRUMENTATION IN CHEMICAL PLANT", by Department of Chemical Engineering, N.G.Patel Polytecnic, Isroli-Afwa, 18-08-2020 to 21-08-2020.

Webinars:

1. Webinar on “Carbon nanotube based electrochemical sensors for the determination bioactive molecules”, by Department of Basic Sciences & Humanities, Vignan's Institute of Management & Technology for Women, Hyderabad on 21-09-2020.
2. Webinar on “Hydroprocessing Technologies in Petroleum Refinery” by Department of Chemical Engineering at NIT Jalandhar, 19-09-2020.
3. Webinar on “Welding Career in Advanced Manufacturing & Industry 4.0” by Vikrant Group of Institutions, 21-09-2020.
4. Webinar on “Surface Modifications of Cutting Tools, Machining - Research Aspects” by Department of Mechatronics Engineering, Nehru Institute of Engineering and Technology, Coimbatore, 17-09-2020.
5. Webinar on “Introduction to Industrial Designs, Filing Procedure & Registration”, by Intellectual Property Facilitation Centre, MLR Institute of Technology, Hyderabad, 10-09-2020.
6. Webinar on “Master the Industry leading CAD software for Mechanical” by Khodiyar CAD Center (I) Pvt. Ltd., 09-09-2020.
7. Webinar on “SMART MANUFACTURING” by School of Mechanical Engineering & School of Electrical, Electronics & Communication Engineering, Galgotias University, Uttar Pradesh, 08-09-2020.
8. Webinar on “Technology and Innovation (Career and Job Advice)”, by Department of Mechanical Engineering, Meerut Institute of Technology, Meerut, 27-08-2020.
9. Webinar on “Contemporary Issues in Biodiversity and Its Related Technologies” by Department of Zoology and Department of Geography, Chakdaha College, Nodia, West Bengal, 30-08-2020.
10. Webinar on “Photochemical aspects of 3-Hydroxychromen-4-one and their derivatives”, by Department of Basic Sciences & Humanities, Vignan's Institute of Management & Technology for Women, Hyderabad, 29-08-2020.
11. Webinar on “Effective and efficient writing of research papers for the web of science, Scopus indexed journal and Conference papers using typeset Research studio & Nexus International company” by Department of Electrical and Electronics Engineering, Ramco Institute of Technology, Rajapalayam, Tamilnadu, 29-08-2020.
12. Webinar on “Robotics- A Introduction to Kinematics” by Department of Mechanical Engineering of NSHM Knowledge Campus Durgapur-GOI, 08-08-2020.
13. Webinar on “Scientific Achievements, Current Challenges, Problems and Scientific & Terminology Commission for Scientific and Technical Terminology”, by Ministry of Education, Department of Higher Education, Delhi, 29-08-2020.
14. Webinar on “Impact of Engineering and Electronics in Healthcare Industry” by Sri Eshwar College of Engineering, Coimbatore, 29-08-2020.
15. Webinar on “Current challenges and opportunities in Pharmaceutical and Biotech Industry”, by Department of Microbiology and IQAC, Shri Yogeshwari Education Society's, Yogeshwari Mahavidyalaya, Ambajogai, 28-08-2020.
16. Webinar on “NAAC Assessment and Accreditation Process and Awareness about the NEP 2020”, by Sri Padmavati Mahila Visvavidyalayam, tirupati, 26-08-2020.
17. Webinar on “Everyone Can Do Quality Research - Talk 10: Topology Optimization”, by Knowledge Institute of Technology, Salem, 27-08-2020.
18. Webinar on “Applications of Science and Technology in Disaster Management”, by Department of Sciences & Humanities, National Engineering College, Kovilpatti. 20-08-2020

19. Webinar on "Transcritical CO₂ Refrigeration System", by Department of Mechanical Engineering, VVCE and ISHRAE Mysore Chapter, 26-08-2020.
20. Webinar on "Basics of Polymer Photovoltaics", by Sri Eshwar College of Engineering, Coimbatore, 26-08-2020.
21. Webinar on "Mind Over Matter", by Department of Humanities, The Bhopal School of Social Sciences, 07-08-2020.
22. Webinar on "Surveillance and Society", by Dept of English in Association with IQAC, N.S.S Arts and Science College, Parakkulam, 11-08-2020 to 12-08-2020.
23. Webinar on "Rural Development with people's participation", by Sri Eshwar College of Engineering, Coimbatore, 25-08-2020.
24. Webinar on "Blockchain Technology and Its Application", by Department of Computer Science, Dr.M.G.R.Educational and Research Institute, Adayalampattu Phase II Campus, Chennai, 24-08-2020.
25. Webinar on "Smart Manufacturing and its insights", Sri Eshwar College of Engineering, Coimbatore, 24-08-2020.
26. Webinar on "Solving Problem with Simulation of Printing Technology", by Department of IT & CS, SST College of Arts and Commerce, 21-08-2020.
27. Webinar on "Vibration Analysis of Rotating Machinery", by Department of Mechanical Engineering, Mandsaur University, Mandsaur, M.P, 10-08-2020.
28. Webinar on "Transforming life of Tribal Community in India : Issues, Challenges and Solutions", by Navjeevan Research and Development Society (NRDS), Dhanbad, 09-08-2020.
29. Webinar on "3D printing in Manufacturing", by Research and Innovative Cell (RIC), EWCE, Bengaluru, 23-08-2020.
30. Webinar on "Contemporary Techniques in Aircraft Structural Analysis and Its Present Applications", by Department of Aeronautical Engineering, Er. Perumal Manimekalai college of Engineering, Hosur, 21.08.2020.
31. Webinar on "Opportunities During COVID 19 and its Future Scenario in the Context of Higher Education", by Dept of Education Under the Aegis of IQAC, Chittaranjan College, 14-08-2020.
32. Webinar on "Science and Technology of Glass", by Department of Physics, Sreegopal Banerjee College, 16-08-2020.
33. Webinar on "AQUATIC BIODIVERSITY CONSERVATION", by Department of Zoology and Internal Quality Assurance Cell (IQAC), The Madurai Diraviyam Thayumanavar Hindu College, Pettai, Tirunelveli, Tamilnadu, India, 11-08-2020.
34. Webinar on "QUANTUM MATERIALS AND NANOPARTICLES FOR ADVANCED APPLICATIONS", by Department of Physics, Kamaraj College, Thoothukudi, 06-08-2020.
35. Webinar on "Role of LASERS in Defence", by Department of Science of St Joseph's College of Engineering, 18-08-2020.
36. Webinar on "Structural and architectural potential of Masonry", by Department of Civil Engineering, Vidyavardhaka College of Engineering, 18-08-2020.
37. Webinar on "Introduction to Polymers", by Sri Eshwar College of Engineering, Coimbatore, 18-08-2020.
38. Webinar on "Advancement in Polymer Nano-composites" (APNC-2020), by Department of Mechanical Engineering, Parala Maharaja Engineering College Berhampur Odisha, 17-08-2020.

39. Webinar on “Climate changes & its effect on Environment”, by School of Engg. & Technology, G.H.Raisoni University, Saikheda, MP, 10-08-2020.
40. Webinar on “HAPPINESS AND WELLBEING ENGINEERING”, by Department of Human Faculty of Home Science, SMT P.N DOSHI WOMEN'S COLLEGE, 11-08-2020.
41. Webinar on “Coal Fundamentals and Utilization”, by Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli, 15-08-2020.
42. Webinar on “My Idea My Startup”, DIEMS – Business Incubation Centre, Deogiri Institute of Engineering and Management Studies, Aurangabad, 07-08-2020.
43. Webinar on “Smart Contracts in Blockchain”, by Research and Innovative Cell(RIC), EAST WEST COLLEGE OF ENGINEERING, Bengaluru, 14-08-2020.
44. Webinar on “Non-orthogonal Multiple Access: Fundamentals and Academic-Industry Perspectives” by Department of Electronics and Communication Engineering, RISE Krishna Sai Prakasam Group of Institutions, Ongole, 08-08-2020.
45. Webinar on “Prospects for Commerce and Management Education in India: Implications of COVID 19”, by Department of Commerce and Management in association with IQAC, Government First Grade College, Krishnarajanagar, Mysore, Karnataka, 06-08-2020 to 07-08-2020.
46. Webinar on “Dielectric materials and their characterization studies in the microwave frequency region”, by Department of Basic Sciences & Humanities, Vignan's Institute of Management & Technology for Women, Hyderabad, 14-08-2020.
47. Webinar on “How to write a Research Paper IQAC”, Visakha Institute of Engineering & technology, Visakhapatnam, 08-08-2020.
48. Webinar on “Intellectual Property Rights”, by KLE Society's Arts and Commerce College. 11-08-2020.
49. Webinar on “Managing Stress During Pandemic : COVID 19”, by Department of Mechanical Engineering, Babasahed Naik College of Engineering, Pusad, 07-08-2020.
50. Webinar on “Information Is Wealth: An awareness towards Cyber Security”, by Department of Computer Science and Engineering, Vidyavardhaka College of Engineering, Mysuru, 10-08-2020.
51. Webinar on “Recent Advances in Nanotechnology”, by Department of Chemistry, Shri.Shivaji Science and Arts College, Amravati, 08-08-2020.
52. Webinar on “The Scope of 3D Printing as a Startup in India” by Dept. of Mechanical Engineering, Engineering College Banswara , Rajasthan, 09-08-2020.
53. Webinar on “Importance of Construction Contract and Project Management”, Department of Civil Engineering, Dr.N.G.P. IT, Coimbatore, 09-08-2020.
54. Webinar on “Liquid Crystals and Nanomaterials for Display Technology”, Department of Basic Sciences & Humanities, Vignan's Institute of Management & Technology for Women, Hyderabad, 08-08-2020.
55. Webinar on “Income Tax Act 1961- An Overview & Proceedings”, by KLE College of Law Kalamboli, NAVI MUMBAI, 08-08-2020.
56. Webinar on “Art of Publishing Review and Research Articles”, by Department of Mechanical Engineering, Sri Venkateswara College of Engineering, 08-08-2020.
57. Webinar on “Desalination by Solar-driven Interfacial Evaporation – A Promising Solution for Fresh Water Scarcity”, by Department of Mechanical Engineering, St. Joseph's College of Engineering, 08-08-2020.

58. Webinar on “Thinking Smarter Critical & Creative Thinking”, by Sri Eshwar College of Engineering, Coimbatore, 08-08-2020.
59. Webinar on “Next-Generation High Power Laser Technology”, by Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, India, 07-08-2020.
60. Webinar on “Quantum Dots and its Applications”, by Department of Science and Humanities, Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai, 06/08/2020.
61. Webinar on “Energy Geostructures and Sustainable Geotechnical Engineering Practice”, by Department of Civil Engineering, Vidyavardhaka College of Engineering, Mysuru, 05/08/2020.
62. Webinar on “Awareness on IPR for New Business Ideas & Schemes of MSME”, by Intellectual Property facilitation Centre (IPFC), Sri Venkateshwara College of Engineering, Bengaluru, 06/08/2020.
63. Webinar on “Halide Perovskites and Metal-Organic Frameworks for Solar Fuel Generation”, by St. JOSEPH’S COLLEGE OF ENGINEERING, 05/08/2020.

Workshop and Seminars:

1. Workshop on “Nanotechnology and Pharmaceuticals”, by Department of Biotechnology, Karpaga Vinayaga College of Engineering and Technology, Chengalpattu, 03-08-2020 to 06-08-2020.
2. Workshop on “Cognitive Skills Development”, by Stella Matutina College of Education in association with Shalom Academy, 05-08-2020 to 09-08-2020.
3. Workshop on “Electric Vehicle and Battery Management System”, by Department of Electrical Engineering, PES’s Modern College of Engineering, Pune, 04/08/2020 to 06/08/2020
4. TEQIP-III sponsored Three Days National e-Seminar on “Future Trends in Mechanical Engineering (NSFTME 2020)”, by Department of Mechanical Engineering, Parala Maharaja Engineering College, Berhampur, Odisha, India, 07-09-2020 to 09-09-2020.

Quiz:

1. QUIZ on “Non Destructive Testing”, by Department of Mechanical Engineering, SDM College of Engineering and Technology, Dharwad, 20-09-2020.
2. Quiz on “SPARTANZZ”, by Department of Mechanical Engineering, SRI Ranganathar Institute of Polytechnic College, Athipalayam, Coimbatore, 16-09-2020.
3. Quiz on “Heat and Mass Transfer”, by Department of Mechanical Engineering, Sri Ranganathar Institute of Polytechnic College, Athipalayam, Coimbatore, 11-09-2020.
4. Quiz on “Isometric Views”, by the Robotics Club, Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna (Dt.), Andhra Pradesh, India, 09-08-2020.
5. Quiz on “SPARTANZZ” by Department of Mechanical Engineering, SRI RANGANATHAR INSTITUTE OF POLYTECHNIC COLLEGE, Athipalayam, Coimbatore, 26-08-2020.

Dr. T D John (Professor, ME and Dean Research, VJEC) attended the following programmes:

1. Webinar series on " Climate Technologies for a Carbon Neutral Agriculture", organized by the Climate Institute, TU Delft, Netherlands on 11.08.2020, 14.08.2020, 18.08.2020 & 21.08.2020
2. Panel discussion on "Capacity Building of the Higher Education Institutions for Rural Engagement" , an UBA program organized by IIT PALAKKAD on 28.08.2020

Mr. Johny P Joseph (Assistant Professor, ME) attended the following programme:

FDP on Advances in Materials Engineering and sustainable manufacturing from 10-8-2020 to 14-08-2020, organised by the Department of Mechanical Engineering, FISAT Angamaly.

Mr.Jerin Saji (Assistant Professor, ME) attended the following programme:

1. Online quiz programme in 'Design of Machine Elements' organised by Department Of Mechanical Engineering, SRI RANGANATHAR INSTITUTE OF POLYTECHNIC COLLEGE, ATHIPALAYAM, COIMBATORE, TAMIL NADU on 25-08-2020.
2. Webinar on 'Automotive Design Thinking' conducted by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur, Kerala on 22/08/2020.

Mr. Arunlal M P (Assistant Professor, ME) attended the following programmes:

1. Webinar on 'Rotary Compressor Research and innovation at NTU, Singapore', by Professor OOI Kim Tiow Chair, School of Mechanical and Aerospace Engineering,Singapore, organised by ME Dept, VJEC Chemperi on 27-08-2020
2. Webinar on ' Cancer therapy from the Mechanical Engineering perspective' by Dr. Ramjee Repaka ,Associate Professor, Department of Mechanical Engineering Center for Biomedical Engineering Indian Institute of Technology Ropar, organised by ME Dept, VJEC Chemperi on 28-08-2020
3. Webinar on 'In-cylinder flow analysis in an IC engine using PIV ' by ME Dept, VJEC Chemperi on 04-09-2020.
4. Webinar on 'Advances in Energy Research ' by ME Dept, VJEC Chemperi on 05-09-2020.

CONGRATULATIONS STUDENTS...

2016-20 batch university exam results are published. Mr. Samrood Abdul Wahab, Mr. Rithik Lal and Mr. Zainudheen M C secured first three positions, in the Department of Mechanical Engineering.



MR. SAMROOD ABDUL WAHAB

(CGPA: 8.86)



MR. RITHIK LAL

(CGPA: 8.68)



MR. ZAINUDHEEN M C

(CGPA: 8.64))

FACULTY ACHIEVEMENTS

1. Dr. T D John (Professor, ME and Dean Research, VJEC), Presented a session on " Carbon Neutral Wayanad-Bridging the gap for a new normal" at the webinar series on " Climate Technologies for a Carbon Neutral Agriculture", organized by the Climate Institute, TU Delft, Netherlands on 21.08.2020
2. Dr. Sreekanth M P (Assistant Professor, ME), delivered an invited lecture on the topic "Customized Design and Development of Hand Tools using Anthropometric Data and Additive Manufacturing" on 08th September 2020 in AICTE Training And Learning (ATAL) Sponsored 5 Days Online FDP on "3D PRINTING & DESIGN" Organized by Department of Mechanical Engineering, K S R Institute for Engineering and Technology, KSR Kalvi Nagar, Tiruchengode-637 215, Namakkal (Dt) Tamil Nadu.
3. Dr. Sreekanth M P (Assistant Professor, ME) completed the review of a paper for Emerald Rapid Prototyping Journal and submitted the score in September 2020.

PUBLICATIONS

1. Dr. S. Christopher Ezhil Singh (Professor, ME) published paper on **“Effect of nano B4C on the tribological behaviour of magnesium alloy prepared through powder metallurgy”**, *Materials Science*, Vol.26, No.4, pp.392-400, I.F:0.625. Published in September 2020.
2. Dr. S. Christopher Ezhil Singh (Professor, ME) published paper on **“TG/DTA studies on the oxidation and thermal behaviour of Ti-6Al-4V-B4C coatings obtained by magnetron sputtering”**, *Journal of Applied Research and Technology*, Vol.18, pp.108-118. Published in August 2020.
3. Dr. S. Christopher Ezhil Singh (Professor, ME) published paper on **“Machining of Microholes in Ti-6Al-4V by Hybrid Micro-EDM to Improve Process Parameters and Flushing Properties”**, *Bulletin of the Polish Academy of Sciences: Technical Sciences*, Vol. 68, No. 3, pp.565-573, I.F:1.361. Published in August 2020.
4. Dr. S. Christopher Ezhil Singh (Professor, ME) published paper on **“Thermal Degradation on Biomass Briquettes of Artocarpus Heterophyllus Leaf Powder”**, *Interciencia Journal*, Vol. 44, No.11, pp. 51-62, I.F:0.28. Published in August 2020.

FAREWELL TO OUR RELIEVING FACULTY



MR. JESTIN C JOSE

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: 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 Editor: Mr. Gokulnath R (Asst. Prof, ME), Mr. Alex George (Asst. Prof, ME)

Student Editors: Mr. Abhiraj Ashok P V (S7 ME), Ms. Pallavi Chandran (S7 ME)