NEWS LETTER
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# MECHNANIMOUS

## DEPARTMENT OF MECHANICAL ENGINEERING

### INSTITUTE VISION

**"Moulding Professionals par Excellence with Integrity Fairness and Human Values".**

### INSTITUTE MISSION

1. We commit to develop the institution as a Center of Excellence of International Standards
2. We guide our students in the attainment of intellectual and professional competence for successfully coping with the rapid advancements in technologies and the ever changing world of business, industry and services
3. We help each and every student in their personal growth into mature and responsible individuals
4. We strive to cultivate a sense of social and civic responsibility in our students, thus empowering them to serve humanity.
5. We promise to ensure a free environment where quest for the truth is encouraged

### DEPARTMENT VISION

"Moulding socially committed engineers capable to meet the global challenges in the mechanical engineering stream."

### DEPARTMENT MISSION

- To provide ample facilities to foster excellent ambiance for teaching learning process in the department.
- To enhance the creative ideas, analytical talents and soft skills in the students to cope up with the emerging trend in technical field.
- To enable the students to meet real life problems in mechanical engineering with a zeal to human and ethical values.

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Our graduates shall have

**PEO1** Strong base in Mathematics, Science, and Mechanical Engineering to face and handle the challenges in real world engineering problems in society and industry.

**PEO2** Passion for Mechanical Engineering to select an area of specialization, pursue higher studies, choose a career, lifelong learning in industry, research and academics.

**PEO3** Basic knowledge in other disciplines to tackle and coordinate Interdisciplinary real life problems

**PEO4** Soft skills, discipline, confidence, self esteem, and ethical values.

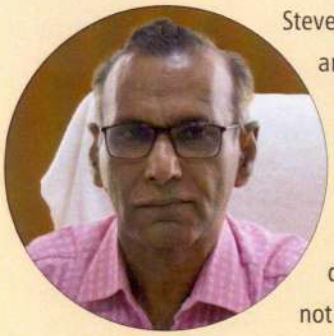
### PROGRAM SPECIFIC OUTCOMES (PSOs)

**PSO1** Students shall be competent, creative and imaginative mechanical engineers employable in fields of design, research, manufacturing, safety, quality, technical services.

**PSO2** Students shall be able to progress through advanced degree, certificate programs or participate in continuing education in mechanical engineering, business, and other professionally related fields.

VISWAJYOTHI
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

## PRINCIPAL'S MESSAGE



Steve Jobs said, "Design is not how it looks like and feels like. Design is how it works." Engineering stimulates the mind and makes an individual in attaining a level where they feel that they have to get out and get their hands dirty, make things, dismantle things and fix things. Knowing is not enough; we must apply it! I feel proud to mention that our faculty members and students run the extra mile needed to improvise the concepts and to bring in innovations. I extend my appreciation to the Department of Mechanical Engineering for moulding our students in the precise scale and guiding them to achieve more!

**Dr. K.K.Rajan**

## HOD'S MESSAGE

I would like to share with you the 11th volume of "Magnanimous", Department of Mechanical Engineering Newsletter. Even under current COVID-19 pandemic, our students, faculties and staff members continue to be engaged in a broad range of activities centered around learning, teaching, research, and outreach activities. I take this opportunity to congratulate all the team members and the publication team in particular for their commendable effort in bringing out the 11th successful issue of Magnanimous. I am sure with this content of this volume of Magnanimous will be acceptable to more readers and will also contribute to successful future editions. Hope this will impact our program with tremendous positivity and will help to reach our goal of making all our students well-trained and qualified mechanical engineer in India and abroad.

**Dr. Shunmugesh K**

## INTRODUCTION

The Department of Mechanical Engineering has three tenets that center on the principle of improving lives and livelihoods: to create knowledge through research in the science and technology of mechanical engineering; to share knowledge through educational programs and the dissemination of our new discoveries; and to develop the professional potential of faculty, staff and students. Mechanical Engineering department expands the frontier of human knowledge in the discipline of Mechanical Engineering through fundamental and applied research conducted by faculty and students. Through initiative and innovation, we expand the frontiers of the Mechanical Engineering profession. Our land-grant mission is based on the premise that knowledge is beneficial to mankind and the greatest benefit comes from dispersing knowledge as widely as possible. We share knowledge with our students through educational programs and all of society through disseminating our research findings in scholarly publications, presentations, patents, entrepreneurship, and technology transfer. Through classroom, laboratory and project-based instruction, undergraduate and graduate students are well served by a curriculum that is based upon the fundamental principles of mechanical engineering, as well as forward looking and set within the context of our profession's social mandate. Our curriculum prepares students for diverse and successful careers across the global engineering marketplace, and it further fosters creativity and critical thinking skills through research and design experiences.

## MESSAGE FROM THE EDITORIAL BOARD

During the last semester department got an opportunity to host an AICTE Sponsored STTP. The participation of mechanical engineering faculties and students in various training program, international certification courses and webinars was the most encouraging factor, which we want to continue in coming years also. Through periodic seminars, workshops as integral part of the course, the students were equipped with technical knowledge, critical thinking skill and creativity to excel in engineering profession. The department also aims to recognize the extra talent of our students other than academics and motivate them to shine in their respective fields

## FACULTY ACHIEVEMENTS (CONGRATULATION)

- **Dr. Sajan T John** has got KTU Sponsorship of Rs. 2 lakhs for conducting Faculty Development Programme.
- **Mr. Frenosh K Francis** successfully completed the NPTEL Online Course "Advances in Welding and Joining Technologies" with a consolidated score of 81% organized by IIT Guwahati, on Sep-Nov 2020.
- **Mr. Frenosh K Francis** has enrolled for P.hD admission in APJ Kerala Technological University on july 2020.
- **Mr. Nidheesh K** got enrollment certificate for nptel course on "IC Engines and gas turbines"
- **Mr. Akhil Raj P.R & Mr. Nixon George** Participated on the Global event Cybathlon 2020 as technical crew member and got 9th position among 49 teams from all over the world.
- **Mr. Vinoj K** Coordinated an AICTE Sponsored One Week online Short

Term Training Program (STTP) – Phase-2, organized by Department of Mechanical Engineering, VJCET Vazhakulam from 14th to 19th December 2020.

- **Dr. Shunmugesh K., Mr. Arun Raphel & Mr. Arun K.** Coordinated an AICTE Sponsored One Week online Short Term Training Program (STTP) organized by Department of Mechanical Engineering, VJCET Vazhakulam from 23rd to 28th November 2020
- **Dr. Shunmugesh K., Mr. Arun Raphel & Mr. Arun K.** Successfully completed the course 'Engineering Drawing and Computer Graphics' with a consolidated score of 92% through NPTEL by IIT Kharagpur, during Sep-Dec 2020
- **Mr. Vinoj K** Organized and Participated in the Webinar on "How to File National and International Patents" organized by IEDC, VJCET in association with R&D and IIIC, VJCET on 17th October 2020.
- **Mr. Vinoj K** Organized and Participated in the Webinar on "Entrepreneurship: An Attractive Option in Post Covid Era" organized by IEDC, VJCET in association with R&D, VJCET on 21st August 2020.
- **Dr. Sajan T John** reviewed an article in International Journal of Services & Operations Management.
- **Dr. Sajan T John** reviewed an article in Materials today: Proceedings (Elsevier).
- **Mr. Arun Raphel** has successfully completed a 4 week online course on Material Science :10Things every engineers should Know organized by University of California-Davis through Coursera on 31st December 2020.
- **Mr.Shajan P J** appeared as Rsource Person on a staff training program organised by Department of Mechanical Engineering Viswajyothi College of Engineering and Technology Vazhakulam together with Nirmala Pharmacy college Muvattupuzha on 17th October 2020

## RESEARCH PAPERS IN JOURNALS AND CONFERENCES

- **K Shunmugesh, K.R Arun, Arun Raphel, KT Akhil** published a paper on Optimization of Drilling Parameters of Glass Fiber-Reinforced Polymers Using Grey Relational Analysis in Recent Advances in Mechanical Engineering, Springer, Singapore (December 2020).
- **Akhil, K.T., Arul, S. and Shunmugesh, K** published a paper on Optimization of Cryogenic Turning Process Parameters Using Grey Relational Analysis (GRA) in Super-Duplex Stainless Steel (A479). In Recent Advances in Mechanical Engineering (pp. 307-312). Springer, Singapore.
- **Arun K** published a paper on "The effect of cryogenically treated drilling tool on GFRP composite drilling holes-A comparative study", Materials Today, Journal SCI/SCOPUS, 1369-7021.

## FACULTY TRAINING

- **Dr. Shunmugesh K** participated and completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Solar Energy:Technologies and Applications" from 21st to 25th September at Jyothi Engineering College.
- **Dr. Shunmugesh K** participated and completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 7th to 11th September at Kongu Engineering College.
- **Mr. Frenosh K Francis** attended a Webinar on "What Industry Needs from Engineering Graduates", Organised by Department of Mechanical Engineering, Viswajyothi College of Engineering and Technology Vazhakulam, on 24th July 2020
- **Mr. Vinoj K** Participated and Completed Successfully AICTE Training and Learning (ATAL) Academy online FDP on "3D Printing and Design from 16th to 20th November 2020 at MACE.
- **Mr. Vinoj K** Participated in the Webinar on "Introduction to RedHat Linux" organized by Spectrum Softtech Pvt. Ltd. in association with R&D, ISTE and IIIC, VJCET on 22nd October 2020.
- **Mr Arun Raphel** has participated in the Webinar on "In-cylinder flow analysis in an IC engine using PIV" held on 4thSeptember 2020 organized by the Department of Mechanical Engineering, Vimal JyothiEngineering College, Kannur, Kerala.
- **Mr. Frenosh K** Francis attended a Webinar on "Role of Operations and Supply Chain Management in the Uncertain World", organised by Department of Mechanical Engineering, Viswajyothi College of Engineering and Technology Vazhakulam, on 01st July 2020
- **Mr. Arun Raphel** has actively participated in online webinar on "Innovative Materials for Automobile Applications" held on 5 September 2020 organized by Department of Mechanical Engineering, Kuppam Engineering College, Kuppam.
- **Mr. Frenosh K Francis** attended a Five Days Faculty Development Programme on "Professional Ethics", organised by Department of Civil Engineering, Providence College of Engineering Chengannur, from 10th to 14th August 2020
- **Mr Arun Raphel** has actively participated in online webinar on "Mendeley Software for Reference Management for Researchers Hands-On-Training" held on 20th August 2020 organized by Department of Mechanical Engineering, Kuppam Engineering College, Kuppam.
- **Mr. Frenosh K Francis** participated in the Panel discussion on "National Educational Policy 2020", organised online by ISTE Kerala Section on 22nd August 2020.
- **Mr. Arun Raphel,** has actively participated in online webinar on "Research Developments in Composite Materials" held on 15th August 2020 organized by Department of Mechanical Engineering, Kuppam Engineering College, Kuppam.
- **Mr. Arun Raphel** has participated in the Webinar on Lasers and Nano-Optics organized by NITT-OSA and NITT-SPIE Student Chapters, Department of Physics, National Institute of Technology, Tiruchirappalli – 620 015, Tamil Nadu, India on 25th August 2020.
- **Mr. Arun Raphel** has participated in the Webinar on "Advances in Energy Research" held on 5th September 2020 organized by the Department of Mechanical Engineering, Vimal Jyothi Engineering, College, Jyothi Nagar, Chemperi, Kannur, Kerala.

- **Mr. Arun Raphel** has participated in the Webinar on " Rotary Compressor Research and innovation at NTU, Singapore" held on 27th August 2020 organized by the Department of Mechanical Engineering, Vimal Jyothi Engineering College, Jyothi Nagar, Chemperi, Kannur, Kerala.
- **Mr. Arun Raphel** has participated in the Webinar on "Use of refrigerant blends in air conditioners" held on 28th August 2020 organized by the Department of Mechanical Engineering, Vimal Jyothi Engineering College, Jyothi Nagar, Chemperi, Kannur, Kerala.
- **Mr. Frenosh K Francis** attended the online TEQIP sponsored six days online National Seminar on "Advances in Manufacturing, Materials and Modelling Process (AMMMP-2020)", organised by Department of Mechanical Engineering, Katihar Engineering College, Katihar, Bihar from 17th to 22nd August 2020
- **Mr. Frenosh K Francis** attended the online TEQIP sponsored six days online National Seminar on "Advances in Manufacturing and Characterisation Process (AMCP 2020)", organised by Department of Mechanical Engineering, Katihar Engineering College, Katihar, Bihar from 24th to 29th August 2020
- **Mr. Frenosh K Francis** attended the online TEQIP sponsored six days online National Seminar on "Academia to Industry: Challenges and Opportunities (AICO-2020)" organised by Department of Mechanical Engineering, Katihar Engineering College, Katihar, Bihar from 31st August to 05th September 2020
- **Mr. Frenosh K Francis** attended the online TEQIP sponsored six days online National Seminar on "Research Trends in Mechanical Engineering (RTME-2020)" organised by Department of Mechanical Engineering, Katihar Engineering College, Katihar, Bihar from 07th to 12th September 2020
- **Mr. Frenosh K Francis** attended webinar on "Future with Artificial Intelligence", organised by CREOPEDIA Business Intelligence Pvt. Ltd. on 26th August 2020.
- **Mr. Frenosh K Francis** attended one-week Short Term Course on "Innovations and Research in Welding, Joining and Cutting Technologies" organised by Department of Mechanical Engineering in association with Institute Innovation Cell, NIT Silchar, from 07th to 11th September 2020
- **Mr. Frenosh K Francis** attended a Webinar on "Next Generation Solar Thermal Collectors", organised by Department of Mechanical Engineering, Vimal Jyothi Engineering College Jyothi Nagar, Chemperi, Kannur, on 14th September 2020
- **Mr. Frenosh K Francis** attended Faculty Development Program on "Recent Advances in Renewable Energy Technologies for Sustainable Development" organised by Department of Mechanical Engineering, NIT Tadepalligudem, Andhra Pradesh, from 25th to 29th September 2020
- **Mr. Arun Raphel** has participated online FDP on Advanced Materials Engineering and sustainable manufacturing from 10th to14th August 2020 at FISAT ,Angamaly
- **Mr. Arun Raphel** has Participated in the AICTE Sponsored National Level Five Days Virtual Short Term Training Program (STTP) on "INDUSTRIAL INTERNET OF THINGS" from 12th to 16th of August 2020, organized by Department of Mechanical Engineering, Nitte Meenakshi Institute of Technology, Bangalore-64
- **Mr. Arun Raphel** has participated in the 6-Day (One Week) All I Education (AICTE), New Delhi sponsored online Short Term Training Programme (STTP) Series on RECENT ADVANCES IN TRIBOLOGY AND SURFACE ENGINEERING: - Series 1 of 4 - Introduction to Tribology and Surface Engineering and organized by the Department of Mechanical Engineering of Saintgits College of Engineering, Kottayam from 17th to 22nd August, 2020.
- **Mr. Arun Raphel** has participated in the 6-Day (One Week) All I Education (AICTE), New Delhi sponsored online Short Term Training Programme (STTP) Series on RECENT ADVANCES IN TRIBOLOGY AND SURFACE ENGINEERING: Series 2 of 4 - Tribology of Machine Components and organized by the Department of Mechanical Engineering of Saintgits College of Engineering, Kottayam from 14th to 19th September, 2020.
- **Mr. Arun Raphel** has participated in the 6-Day (One Week) All I Education (AICTE), New Delhi sponsored online Short Term Training Programme (STTP) Series on RECENT ADVANCES IN TRIBOLOGY AND SURFACE ENGINEERING: Series 3 of 4 – Introduction to special topics like nanotribology bio tribology , space tribology organized by the Department of Mechanical Engineering of Saintgits College of Engineering, Kottayam from 12th to 17th October, 2020.
- **Mr. Arun Raphel** has participated in the 6-Day (One Week) All I Education (AICTE), New Delhi sponsored online Short Term Training Programme (STTP) Series on RECENT ADVANCES IN TRIBOLOGY AND SURFACE ENGINEERING: Series 4 of 4 – Surface Charecterization and treatments in Tribology and organized by the Department of Mechanical Engineering of Saintgits College of Engineering, Kottayam from 23rd to 28th November, 2020.
- **Mr. Arun Raphel** has participated in the 6-Day (One Week) All I Education (AICTE), New Delhi sponsored online Short Term Training Programme (STTP) Series on Outcome based Education for Technical Institutions -Phase -01 at Rajagiri School of Engineering and Technology from 14th to 20th October 2020
- **Mr. Arun Raphel** has participated in 2 weeks FDP on Frontiers of Research in Thermal Science organized by the Department of Mechanical Engineering, Vimal Jyothi Engineering College, Kannur, Kerala from 27th August to 9th September 2020
- **Mr. Frenosh K Francis** attended Faculty Development Program on "Advances in Combustion and Emission Diagnostics" organised by Department of Mechanical Engineering, NIT Tadepalligudem, Andhra Pradesh, from 5th to 10th October 2020
- **Mr. Frenosh K Francis** has actively participated in AICTE sponsored one week online Short Term Training Program on "Recent Advances in Materials and Manufacturing: Part II" organised by Department of Mechanical, Gayatri Vidya Parishad College of Engineering (Autonomus) Visakhapatnam, from 07th to 12th September 2020
- **Mr. Frenosh K Francis** attended a Webinar on "Role of Engineers in Sustainable Development", organised by Department of Mechanical

Engineering, Viswajyothi College of Engineering and Technology Vazhakulam, on 21st October 2020

- **Mr. Frenosh K Francis** attended a Webinar on "How to File National and International Patents", organised in association with IEDC, R&D and IIIC, Viswajyothi College of Engineering and Technology Vazhakulam, on 17th October 2020
- **Mr. Frenosh K Francis** has participated in AICTE sponsored one week online Short Term Training Program on "Outcome Based Education for Technical Institutions - Phase II: Outcome Based Education & Autonomy" organised by, Rajagiri School of Engineering and Technology, Kochi, from 16th to 21st November 2020
- **All Faculty members** has participated in AICTE sponsored one week online Short Term Training Program on "IoT Based Manufacturing and Design – Challenges and Opportunity- Phase I" organised by Department of Mechanical Engineering, Viswajyothi College of Engineering and Technology, Vazhakulam, from 23rd to 28th December 2020
- **All Faculty members** has participated in AICTE sponsored one week online Short Term Training Program on "IoT Based Manufacturing and Design – Challenges and Opportunity- Phase II" organised by Department of Mechanical Engineering, Viswajyothi College of Engineering and Technology, Vazhakulam, from 14th to 19th December 2020
- **Mr. Shajan P J** attended a webinar on "Library Science" organised by IEEE on 6th August 2020.

## STUDENTS AWARDS AND ACHIEVEMENTS

- **Kurian Benny** of S7 ME A has completed coursera courses on Sensors and sensor circuit design-University of colorado, Oil and gas industry operations and market-duke universit, Introduction to cyber security tools and cyber attacks-IBM, Motor and motor control circuits University of colorado, Sensor manufacturing and process control - University of Colorado, Pressure force motion and humidity sensors - University of Colorado.
- **Basil C Varghese** of S7 ME A has completed courses on Wind Energy, Autodesk fusion 360, Ferrous Technology, Embedding Sensors and Motors, and Modelling Approach in Micro - Machining Process.
- **Sebastian Antony** of S7 ME A has completed coursera courses on Digital Manufacturing and Design Technology, Energy Production Distribution and Safety, and Embedding Sensors and Motors.
- **George Elias K** of S7 ME A has completed coursera courses on sensor and sensor circuit design-University of colorado autodesk fusion 360 integrated cad/ cam /cae-autodesk, digital manufacturing and design -the state university of newyork, Embedding sensor and motors-university of Colorado, machine design part 1-georgia institute of technology, motors and motor control circuit-university of Colorado, pressure, force, motion and humidity sensors-university of Colorado, sensor manufacturing and process control-university of Colorado, and webinar on role of operation and supply chain management in certain world.
- **Gopu K S** of S7 ME A has completed NPTEL course on Refrigeration and courser course on Air-conditioning, Wind Energy
- **Eldho Jose K** of S7 ME A has completed coursera courses on Sensors and Sensor Circuit Design, AI for Everyone, Electric Vehicles and Mobility, Motors and Motor Control Circuits, Pressure, Force, Motion, and Humidity Sensors, Sensor Manufacturing and Process Control
- **Amal Antony** of S7 ME A has completed coursera courses on Completed specialization embedding sensors and motor (4 courses), specialization CAD and Digital manufacturing (5courses) and NPTEL course on Refrigeration.
- **Jerin Eldhose** of S7 ME A has completed coursera courses on Sensors and Circuit Design, and participated in International Colloquium-Design and Fabrication of Composite Leaf Spring at MA College of Engineering.
- **Githin Biju** of S7 ME A has completed courses on Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360 , Programming for Everybody (Getting Started with Python) , Specialization in Embedded Sensors and Motors
- **Nikhil Devasia** of S7 ME A has completed coursera courses on embedding sensors and motors.
- **Arjun T P** of S7 ME A has completed coursera c ourses on Introduction to Biomedical Engineering, Introduction mechanical engineering design and manufacturing with fusion 360 , Sensor manufacturing and process control.
- **Shone Nixon** of S7 ME A has completed coursera courses on Introduction to Biomedical Engineering, Simulation Analysis for Mechanical Engineers with Autodesk Fusion 360, Sensor manufacturing and process control
- **Jogi Jose** of S7 ME A has completed coursera courses on Digital manufacturing and design, Sensors and sensor circuit design , Sensor manufacturing and process controller, Motors and motor control circuit, and Pressure force motion humidity sensor
- **Arun Sabu** of S7 ME A attended Webinar on Rotary Compressor Research and innovation at NTU-Singapore ,attended webinar on Roll of Mechanical Engineering In society development and What industries needs from engineering graduates
- **Jeevan Thomas** of S7 ME A has completed coursera courses on sensor circuit design, presented a journal paper in international colloquium held in MA college on the topic design and fabrication of composite leaf spring
- **Judson Jose** of S3 ME B has completed coursera course on Electric power system, and webinar on role of engineers in sustainable development, and attended webinar on rotary compressor research and innovation
- **Jerin Joshy** of S7 ME A has completed coursera course on Embedding Sensors and Motors of University of Colorado Boulder, 'Modeling and Design for Mechanical Engineers with Autodesk Fusion 360', paper presented on the topic 'Design and Fabrication of Composite Leaf Spring' in INTERNATIONAL COLLOQUIUM ON RECENT TRENDS IN ENGINEERING conducted in MA COLLEGE KOTHAMANGALAM
- **Rahul S Thachil** of S7 ME A has completed coursera course on Motor and motor control circuits, Sensor manufacturing and process control,

Pressure, Force, Motion and Humidity sensors, Sensors and sensor circuit design, Quantum mechanics, Embedding Sensors and Motors, and attended Webinar on How to turn Engineers to entrepreneur and What industry needs from engineering graduates

- **Francis Lal** of S7 ME A has completed coursera course on Completed courses on Sensor Manufacturing and Process Control, Pressure, Force, Motion and Humidity Sensors, Motors and Motor Control Circuits, and Sensors and Circuit Control Designs.
- **Edwin Xavier** of S7 ME A has completed coursera course on embedding sensors and sensor circuit, autodesk 360
- **Mathew Nevin** of S7 ME A has completed coursera course on embedding sensors and Motors
- **George M Sabu** of S7 ME A has completed coursera courses on python data structures, structuring machine learning projects, Embedding sensors and Motor, Intro to digital manufacturing with autodesk fusion 360
- **Melvin Joe Augustine** of S7 ME A has completed courser courses on Embedding Sensors and Motors Specialization.
- **Shibin P** of S7 ME A has completed coursera courses on electric vehicles and mobility, sensors manufacturing and process control, embedding sensors and motors, motors and motor control circuits, sensors and sensor circuit design, digital manufacturing and design, advanced manufacturing process analysis, pressure force motion and humidity sensor, machine design part 1, mechanics of materials 1, fundamentals of stress and strain and axial loading
- **Joel George Kalampukattu** of S7 ME A has completed NPTEL course on Refrigeration and Air Conditioning
- **Alex Thomas** of S7 ME A has completed courser courses on Embedding sensors and motors and AI for everyone
- **Disbin Sibi** of S3 ME B has completed courser courses on Mastering bitumen for better roads and innovative applications, wireless communications for everybody, Ferrous Technology, Water resources management and policy and Introduction to G suite.
- **Joseph Markose** of S3 ME B has completed courser courses on, Coursera Autodesk fusion 360, Introduction to thermodynamics, mind control on Covid 19 and attended webinar on role of engineering in sustainable development, webinar on being 4.0 ready, webinar on fundamentals of CNC, Regex- machine learning, Regex- python Django, Rotary compressor research & innovation of NTU
- **Jayakrishnan B** of S3 ME B has attended Webinar on Rotary Compressor Research & Innovation on NTU, has completed courser courses on Autodesk Fusion 360, Introduction to Thermodynamics, and attended Webinar on Engineering In Sustainable Development, Being 4.0, and Fundamentals Of CNC, REGEX-Machine Learning, REGEX-Python Django.
- **Abin Joseph** of S7 ME A has completed coursera courses on Sensor manufacturing and process control, Pressure force motion and humidity sensors, Digital manufacturing and design, Motors and motor control circuits
- **Nithyan Sahajan** of S7 ME A has completed coursera courses on electric vehicles and mobility, sensors manufacturing and process control, embedding sensors and motors, motors and motor control circuits, sensors and sensor circuit design, digital manufacturing and design, advanced manufacturing process analysis, machine design part 1, pressure force motion and humidity sensor, mechanics of materials 1 fundamentals of stress and strain and axial loading, mechanics of materials, beam bending, mechanics of materials, and deflections buckling combined loading and failure theories
- **Aluke john** of S3 ME B has completed coursera courses on Electric power system
- **Antony Johny** of S7 ME A has completed coursera courses on Embedding sensors and motors, AI for everyone.
- **Jose Kuruvilla Poonolil** of S3 ME B attended Webinar on Rotary compressor research & innovation of NTU, Coursera Autodesk fusion 360, webinar on role of engineering in sustainable development, webinar on being 4.0 ready, Entrepreneurship-an attractive option in post covid era, The impacts of artificial intelligence and covid-19 on employment,career and entrepreneurship,webinar on iiic skill courses for improving employability and entrepreneurship, Also attended training workshop on power communication, participated on inter collegiate IT quiz competition tech whiz,Regex- machine learning, Regex- python Django
- **Gokul G Nath** of S3 ME B Successfully participated in one day virtual workshop conducted by SKYY RIDER INSTITUTIONS on "Slipper Clutch Technology in Bikes" on 28th July, Successfully completed "Solar Energy Basics", course offered through Coursera on 22nd August, Successfully completed "Data Science Math Skills", course offered through Coursera on 26th August, Participated in "IEEE PES Membership Development Session" conducted by IEEE PES of Viswajyothi College of Engineering and Technology on 27th August, Successfully completed "Introduction to HTML5", course offered through Coursera on 27th August, Participated in the webinar on "Rotary Compressor Research and Innovation at NTU, Singapore" organized by the Department of Mechanical Engineering Vimal Jyothi Engineering College on 27th August, Successfully completed "Introduction to Thermodynamics: Transferring Energy from Here to There", course offered through Coursera on 27th August, Successfully completed "Write Professional Emails in English", course offered through Coursera on 30th August, Participated in the webinar on "BEING 4.0 READY", organized by the Department of Information Technology in association with IIIC & ISTE Viswajyothi College of Engineering and Technology on 21st September, Participated in a hackathon "NAVONMESH" organized by IEEE-PSIT Student Branch and Uttaranchal University Student Branch from 11 to 15th October.\
- **Manuel Amal James** of S3 ME B attended Webinar on being 4.0 ready, role of engineers in sustainable development, cancer therapy from Mechanical Engineering perspective, rotary compressor research and innovation at NTU Singapore, use of refrigerant blends in air conditioners, Virtual Workshop on Fundamentals of advanced motorcycle engine, Fundamentals of CNC Programming and Manufacturing.

- **Bineesh T Basheer** of S3 ME B attended Webinars on Laplace equations, Rotary compressor research and innovation at NTU, Singapore, Being 4.0 ready, Role of engineers in sustainable development, Aircraft maintenance and oil and gas engineering
- **Anandhu Saji** of S3 ME B has completed coursera courses on Modelling and design for ME with Autodesk Fusion 360, phython programming
- attende Webinar on Being industry 4.0 Ready, Role of engineers in sustainable development, Rotary compressor, Basics of noise in HVAC system, Cancer therapy from the ME perspective,IIC skill improvement program.
- **Anandu Suresh** of S3 ME B has completed coursera courses on - Programming on Python, Modelling and Designing with AutoDesk 360, Attended -Cancer Therapy from Mechanical engineering perspective, Being 4.0 Ready in VJCET, Basic Noise in HVAC systems, Rotary Compressor research and innovation at NYU.
- **Aditya Giri** of S3 ME B has Participated in Quit India Puzzle contest by IEE SB Panimalar Institute of Technology, Chennai on 9th August 2020, Attended a webinar on Rotary Compression and Innovation by Vimaljyothy college of Engineering and Technology Kannur on 27th August 2020, Participated in a Webinar named Being 4.0 ready on 21st september 2020 by VJCET, Participated in IEE PES Membership development session on 27th August 2020
- **Abin Antony** of S7 ME A has completed coursera courses on Digital Manufacturing and Design
- **Eldho Varghese** of S3 ME B has attended Webinar on rotary compressor research and innovation of NTU, Role of engineering in sustainable development, 4.0 ready, webinar on fundamentals on CNC, and on Robotics and automation

## Webinar on "Role of Operations and Supply Chain Management in the Uncertain World"

Department of Mechanical Engineering in association with Centre for Research and Development, VJCET organized a webinar on "Role of Operations and Supply Chain Management in the Uncertain World" for S7 ME Students on 01st July 2020. The resource person was "Resourse Person Dr. Vipin B, Assistant Professor, IIT Kanpur. The Coordinator was Dr. Sajan T John, Associate Professor, MED.

## Online training on "Introduction to Analysis Software ISRO FEAST"

Department of Mechanical Engineering in association with IIIC & IEDC VJCET organised an Online training on "Introduction to Analysis Software ISRO FEAST" on 21st August 2020. The resource person was Mr. Sreejan S, Application Engineer, interCAD Systems Pvt Ltd. The Coordinator was Mr. Nibin B, Assistant Professor, MED.

## AICTE SPONSORED One Week Online Short-Term Training Programme (STTP) on "IoT based Manufacturing and Design - Challenges and Opportunity"-Phase 1

AICTE sponsored One Week Online Short Term Training Programme (STTP) on "IoT based Manufacturing and Design - Challenges and Opportunity" Phase 1 - 23rd Nov - 28th Nov '2020 was held at the Department of Mechanical Engineering, Viswajyothi College of Engineering and Technology, Vazhakulam from 23rd Nov - 28th Nov 2020. The FDP aims to provide opportunities to faculty members to enhance their teaching skill and research. The FDP was attended by 57 participants of various engineering departments.

Dr. K. Shunmugesh, Head of Mechanical Engineering Department welcomed all the dignitaries and participants. Msgr. Dr. Cherian Kanjirakompil,Manager, VJCET delivered the presidential address. The program was inaugurated by Dr. Somashekhar S Hiremath Associate Professor, MED, IIT Madras. Rev. Fr. Paul Nedumpurath, Director, VJCET and Dr. K. K. Rajan, Principal, VJCET attended the inaugural session. Mr. Arun Raphel Assistant Professor, MED, VJCET, Coordinator of the FDP delivered the vote of thanks.


## "AICTE SPONSORED One Week Short Term Training Programme (STTP) on "Innovations in Manufacturing and Materials for Sustainability"- Phase 2

AICTE sponsored One Week Online Short Term Training Programme (STTP) on " Innovations in Manufacturing and Materials for Sustainability" Phase was held at the Department of Mechanical Engineering, Viswajyothi College of Engineering and Technology, Vazhakulam from 14th-18th December 2020. The FDP aims to provide opportunities to faculty members to enhance their teaching skill and research. Inauguration of the phase II Was done by Dr. Somashekar S Hiremath, Associate Professor Department of Mechanical Engineering in IIT Madras and Talk on Robotics: Past, Present and Future Emerging Research Challenges was also given by him. The FDP was attended by 36 participants of various engineering departments.

## Placement Details 2019-2020

Emil Jaison -Infosys

Arjun Suresh -Infosys

Jose Thomson-TCS

Shone Nixon -TCS

## ACADEMIC RESULTS

| | |
|---|---|
| S4 ME A | - 80.43% |
| S4 ME B | - 66.7% |
| S6 ME A | - 94.54% |
| S6 ME B | - 87.27% |
| S8 ME A | -100% |
| S8 ME B | -100% |
| **2016-2020 Batch** | - 82.72% |

**Editorial Board:** Mr. Arun K R, Mr. Basil Baby, Mr. Martin Jose

Editorial Board

## Academic Excellence

HARIGOVIND S
S4 ME –A
(SGPA -10)

SNOBIN MATHEW
S4 ME –A
(SGPA -10)

BASIL VARGHESE
S4 ME –B

JERIN ELDHOSE
S6 ME –A

ABY JOSHY
S6 ME –B

JOHNS VARGHESE G
S8 ME –A
(SGPA -10)

SREEJITH S NAIR
S8 ME –A
(SGPA -10)

ELDHOSE RAJU
S8 ME –B, (SGPA -10)
**Best Outgoing Student of the College, 2016-20 Batch**