VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

MECHNOVA

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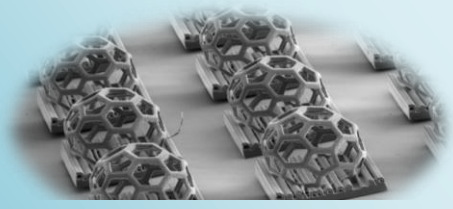
LATEST IN MECHANICAL ENGINEERING!!

Microscale 3D printing

3D-printed microscopic particles, so small that to the naked eye they look like dust, have applications in drug and vaccine delivery, microelectronics, microfluidics, and abrasives for intricate manufacturing. Now, researchers at Stanford University have introduced a more efficient processing technique that can print up to 1 million highly detailed and customizable microscale particles a day.



INSIDE THIS ISSUE:

VISION

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

MISSION

1. To Provide a platform to the students towards attaining quality education in Mechanical Engineering.

2. To Educate students about professional & ethical responsibilities and train them to build leadership and entrepreneurship qualities for their career development.

3. To Create opportunities and guide students in acquiring career-oriented jobs in the field of Mechanical Engineering.

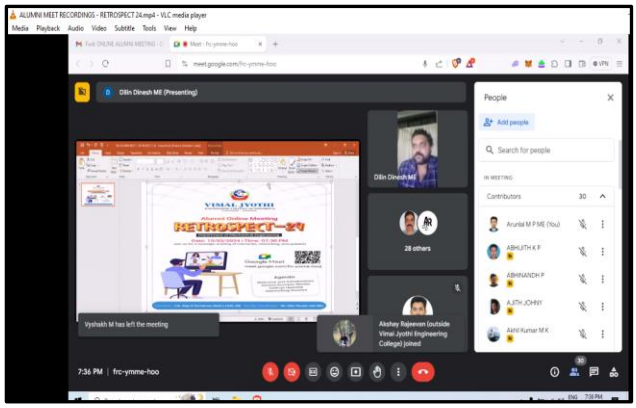
IEEE RAS DISTINGUISHED LECTURE PROGRAMME

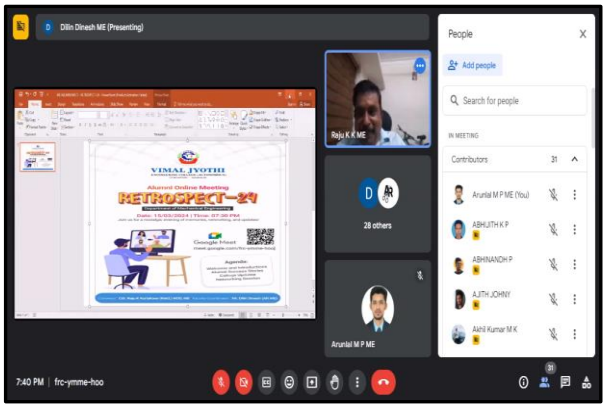
The IEEE Robotics and Automation Society (RAS) held a Distinguished Lecture Programme on "Autonomous Ground Vehicles and Intelligent Transportation Systems" on March 18, 2024, at Vimal Jyothi Engineering College (VJEC). engineering. The event commenced with a warm welcome extended by Cdr. Raju K Kuriakose (rtd.), Head of the Department of Mechanical Engineering, followed by an introduction to the Code of Ethics by Mr. Sayooj Rajan. Dr. Cristina Olaverri-Monreal from Johannes Kepler University Linz, Austria, delivered an enlightening inaugural address, exploring the latest trends and challenges in intelligent transportation systems. The programme emphasized the critical role of autonomous systems in robotics and transportation engineering. Dr. S. Christopher Ezhil Singh, IEEE RAS Staff Advisor, concluded the event by expressing sincere gratitude to all attendees.

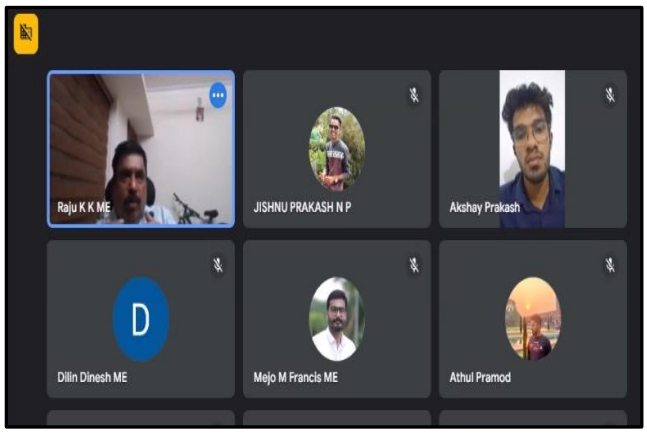
CNC - SKILL DEVELOPMENT PROGRAM

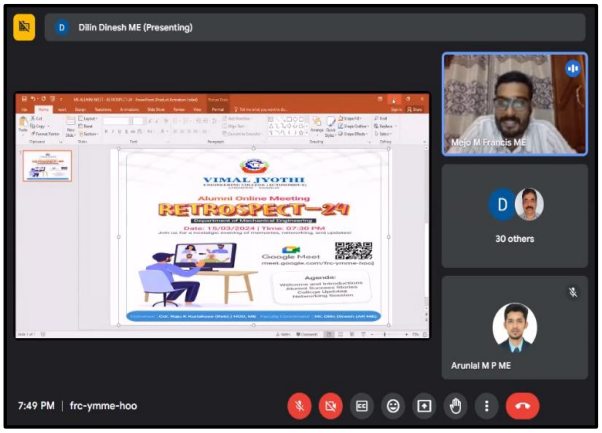
The CNC Skill Development Training, held from February 26 to March 18, 2024, at the CNC Training Centre, Department of Mechanical Engineering, VJEC, was meticulously executed under the guidance of Mr. Shaji George and Mr. Biju K J. Throughout the five-day program, S8 ME students (2020-24) were immersed in theoretical knowledge and practical demonstrations, covering topics ranging from basic CNC programming to advanced techniques. With a focus on hands-on experience, participants gained invaluable insights into CNC machining processes, machine setup, operation, and programming. The diligent efforts of the responsible persons ensured a comprehensive learning experience, equipping students with the necessary skills to excel in the field of CNC machining.

ONLINE ALUMNI MEET "RETROSPECT' 24"









The Department of Mechanical Engineering organized an online alumni meeting titled "RETROSPECT-24" on 15th March 2024, from 07:30 PM to 08:30 PM. The meeting aimed to reconnect alumni, share success stories, provide college updates, and facilitate networking among participants. The meeting was conducted via Google Meet, with a total of 63 participants. The meeting commenced with a warm welcome and introductions led by Assistant Professor Mr. Dilin Dinesh.

Cdr. Raju K Kuriakose (rtd.), Head of the Department of Mechanical Engineering, delivered an inaugural speech providing insights into the college's achievements and developments. The HOD provided updates on recent developments, including the autonomous status, along with NBA and NAAC accreditation. Several alumni, including Mr. Sreeprasad Kotolipram, Mr. Akshai Yeldo, Akshay Rajeevan, Alen Joe Manuel, Aswathi Manoharan, Jyothis Prakash K, Razik Basheer, Sreeraj P, Jestin K Saju, Adarsh Hareendran, Shais Tomy, Nithin Rajan K.A.P, and Milan S Chalil, shared their success stories and professional experiences, reminiscing about their time at the college and highlighting their career trajectories.

S6 ME (2021-25 BATCH) PTA MEETING




The S6 ME class PTA meeting took place on 15th March 2024 at Varikkattu Hall. Dr. Biju Mathew delivered the welcome speech, covering academic and co-curricular updates. Dr. Benny Joseph's presidential address stressed important matters. Cdr. Raju K Kuriakose (rtd.), HOD of Department of Mechanical Engineering, addressed the attendees, shedding light on the various facilities accessible to students for both their academic and extracurricular pursuits. He also briefed the importance of industrial internships during course time. And explained the various industrial internships and skill trainings opportunities arranged for ME students through MOUs with companies. Mr. Sebastian Puthenpura shared news of the college's autonomous status. Mr. Justine M Augustine presented placement statistics. Toppers of the S6 first internal exam were awarded: Mr. Sayooj Rajan (First), Mr. Govind Manoj & Mr. Joel Sunny (Second), and Mr. Jyothish Bijith (Third). The vote of thanks was proposed by Mr. Mejo M Francis.

S4 ME (2022-26 BATCH) PTA MEETING

The S4 ME class PTA meeting was held on 6th March 2024 at Varikkattu Hall. Dr. Biju Mathew delivered the welcome speech, addressing academic and co-curricular updates. Cdr. Raju K Kuriakose (retd), HOD of ME, emphasized various opportunities for Mechanical Engineering students and urged parental support. Fr. Libin, Administrative assistant stressed the importance of values and discipline, while Mr. K.J. Sebastian Puthenpura emphasized maintaining decorum. Toppers of the S4 first internal exam were recognized: Mr.Thomas V S (First), Mr. Edwin K Jiji (Second), and Ms. Akshara K (Third). The vote of thanks was proposed by Mr. Niyas K M.

S2 ME (2023-27 BATCH) PTA MEETING

The Parent-Teacher Association (PTA) meeting for the Second Semester Mechanical Engineering (S2 ME) students was held at Varikkattu Hall, VJEC, on March 12, 2024, commencing at 9:30 AM. Mr. Jomy Jose, the First Year Joint Coordinator, extended a warm welcome to all attendees. Dr. Benny Joseph, Principal of VJEC, delivered a keynote speech highlighting the importance of academic pursuits, discipline, and thoughtful analysis of results. Mr. Sebastian K J, the Public Relations Officer (PRO), shared essential information with parents, emphasizing the significance of personal growth and consistent study habits among students. Mr. Justine M Augustine, the Placement Officer, provided insights into placement activities and statistics, emphasizing the pivotal role of academic excellence in securing future employment opportunities. The meeting also took a moment to recognize and congratulate the top performers of the Second Semester First Internal Exam, Mr. Ajin Saji and Mr. Gokul S Babu, presenting them with well-deserved accolades.

FACULTY ACHIEVEMENTS

1. Mr. Midhun Mukundan M K, Assistant Professor, ME successfully participated in a 5-day faculty development program on 'Machine Learning using Python,' organized by the Department of Computer Science at Vimal Jyothi Engineering College, held from January 19th, 2024.

2. Mr. Niyas K M, Assistant Professor, ME and Mr. Biju K J, Technician, ME successfully participated in a 5-day faculty development program on 'Counselling and Academic Mentoring,' organized by APJ Abdul Kalam Technological University. The program was held at Vimal Jyothi Engineering College from February 27th, 2024, to March 2nd, 2024.

3. Dr. Christopher Ezhil Singh, Associate Professor, ME, reviewed a paper in 'Archives of Civil and Mechanical Engineering' titled: Surface modification of bulk metallic glass Zr48Cu36Al8Ag8 in glow discharge plasma nitriding'. Manuscript Number: ACAM-D-24-00253.

STUDENT ACHIEVEMENTS

VIMAL JYOTHI ENGINEERING COLLEGE
Affiliated to APJ Abdul Kalam Technological University & Kannur University | Approved by AICTE
Under the Archdiocese of Thalassery

NBA NATIONAL BOARD OF ACCREDITATION

NAAC

DEPARTMENT OF MECHANICAL ENGINEERING

CONGRATULATIONS!!!

S7 UNIVERISTY EXAM TOPPERS (2020-24 BATCH)

MR. NIRMAL DEV P

SGPA: 9.7

MR. VYSHNAV R

SGPA: 8.67

MR. NAZIL ARSH

SGPA: 8.57

STUDENT ACHIEVEMENTS

1. Abhinav K V, a student of S4 ME (2022-26 Batch), secured the second place in the 800-meter race and the third place in the 1500-meter race competition held at the college in connection with the 22nd annual athletic meet on 21-03-2024.

2. Vishnu T V, a student of S4 ME (2022-26 Batch), secured the third place in the 800-meter race competition held at the college in connection with the 22nd annual athletic meet on 21-03-2024.

22nd ANNUAL ATHLETIC MEET

On March 21, 2024, the college hosted its sports day event, overseen by a distinguished panel. Reverend Father Libin Ezhuparayil, serving as the Administrative Assistant, Dr. Benny Joseph, the Principal, and Sri. Shaji M.A, an Associate Professor of Physical Education, served as members of the Jury of Appeal. Mr. Shaji M.A, the Associate Professor of Physical Education, took on the responsibility of Competition Director, while the referee duties were executed by Ms. Jancy Joseph, a seasoned Coach. The sports day comprised a multitude of events, showcasing the diverse talents and skills of the participating athletes.

FAREWELL

The Department of Mechanical Engineering bid a fond farewell to Mr. Jayachandran, Instructor, extending heartfelt gratitude for his significant contributions. With warm wishes for success in his future endeavours, colleagues gathered to commend his unwavering commitment and uplifting influence. As he sets sail towards fresh horizons, Mr. Jayachandran's exceptional guidance and impactful work will leave an indelible mark, serving as a beacon of inspiration for all within the Department of Mechanical Engineering.

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: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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.

Mr. Arunlal M P (Asst. Prof, ME)

Student Editors:

Mr. Nirmal Dev P (S8 ME), Ms. Anusree P Nair (S8 ME)