

VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

MECHNOVA



FEBRUARY 2022 VOL 10, ISSUE 1

LATEST IN MECHANICAL ENGINEERING!!

Smart manufacturing industry 4.0 and IoT (Internet of Things)

Smart manufacturing, easily put, is a manufacturing system that could have speed, structure, and accountability to resolve issues, to bring about a completely integrated, collaborative structure across all ends of the supply chain. It ensures a real-time response, to meet the evergrowing demands in customer needs and the changing conditions of the supply network. It is called Industry 4.0 as it is the fourth industrial revolution in which the idea of smart manufacturing comes.

Inside this issue:

- Famous Mechanical Engineering Inventions
- Vision, Mission
- PTA Meeting
- CNC Skill Development Training
- MOU with AVODHA Edutech Pvt Ltd.
- Elected Student class representatives
- Paper Publications
- Faculty achievement
- Glipmses Of Department
 Christmas Celebration
- PEOs
- POs and PSOs

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.

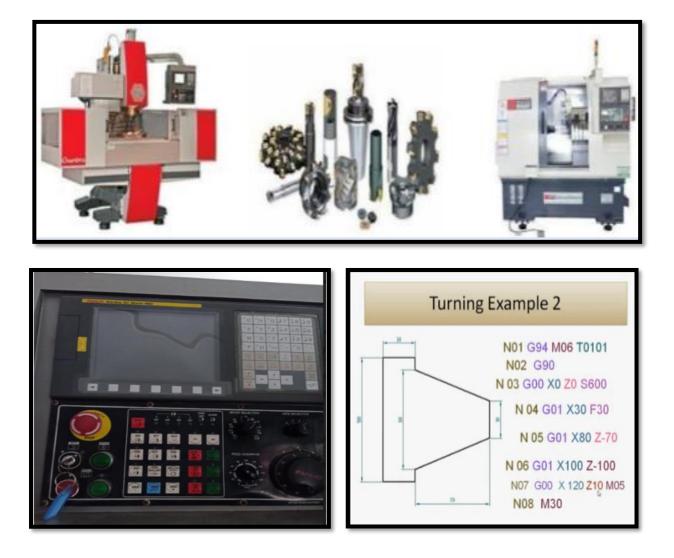
3. Create opportunities and guide students in acquiring career oriented jobs in the field of Mechanical Engineering.

PTA MEETING



The PTA meeting for S3 ME 2020-2024 batch was held on 06th January 2022 at Msgr. Varikkat hall at 10 AM. PTA meeting of S5 ME was held on 06th January 2022 at 2 PM. Meeting of S1 ME was held on 21th January 2022. The by blessing from the meetings started seeking almighty. Cdr.(retd.). Raju K Kuriakose, HOD, Department of Mechanical Engineering, delivered the welcome speech. In his speech he mentioned the need and importance of conducting PTA meetings and of interaction of parents with Dr. Benny Joseph, Principal, VJEC addressed the parents and teachers. highlighted the unique features of VJEC like gualified and committed faculty members and the various infrastructural facilities that are provided to students. Fr. Lazar Varambakath, Bursar, VJEC and Mr. Sebastian K J, Public relations officer, VJEC, addressed the participants. A session exclusively for parent-faculty interaction was also held. 39 parents attended the meeting.

CNC SKILL DEVELOPMENT TRAINING



The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi-, Kannur, organized a Career oriented CNC SKILL DEVELOPMENT TRAINING for S7 ME Students on 26-11-2021,3-12-21,4-12-2021,10-12-21,17-12-21. Twenty students participated in the Training. The convener of the program was Cdr. (Retd.) Raju K. Kuriakose, Head of the Mechanical Engineering Department, VJEC. The training was coordinated and handled by Mr. Shaji George (Assistant Professor, Department of Mechanical Engineering) and Mr. Biju K J (CNC Technician, Department of Mechanical Engineering) The course contents were,

1) Study and preparation of programming and exercise on CNC lathe:-turning, step turning, taper turning, thread cutting, ball and cup turning etc.

2) Study and preparation of programming and on CNC milling machine: - surface milling, pocket milling, contour milling etc.

MoU WITH AVODHA EDUTECH PVT LTD.

A Memorandum of Understanding is entered into as of 13th December, 2021, by and between Vimal Jyothi Engineering College, Chemperi, and Avodha Edutech Pvt Ltd. The general purpose of this MOU is to facilitate cooperation training, soft skill inculcation, coaching and academics between the college and the institution upon the principles of mutual benefit. Avodha is owned and operated by Avodha EduTech Private Limited. The company has gone on to revolutionize the skill development industry by building a vernacular skill development platform with over 20 courses spanning 5 languages.The company has also pioneered the use of data science to assemble course curriculum and routinely uses industry feedback to alter its skilling programs. This coupled with a robust placements infrastructure has enabled the rapid expansion of AVODHA.



AVODHA 3.3 The activities of this MOU must be carried out in accordance with academic and college policies as well as appropriate laws, regulations and necreditation standards existing in each country and institution. A 4 With regard to intellectual property, such institution will adhere to the intellectual property have of its respective notion. Intellectual property developed during the visit of a faculty or indent visitor will be governed by the roles of the bost institution unless otherwise specified by an alternate agreement. In general, the two institutions shall birthy over jointly developed intellectual property resulting from clearly defined obtilanosities priorits. Whenever one institution receives any information from the partner unler a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property resolved. MEMORANDUM OF UNDERSTANDING Between Avodha Edutech Pvt Ltd, Infopark Campus, Kakkanad. AND ARTICLE IV: DURATION Vimal Jyothi Engineering College, Chemperi. This MOU may be modified by method written consent. The Agroament will be in effect from the dote of signature for a period of two years. It shall be renewed upon masked written agreement. This agreement may be terminated by either side with 2 months' written notice. This Memorandum of Understanding is entered into as of 13 been been 2021, by and hetween Vimal Jyothi Engineering College, Chemperi, and Avodha Edutech Pet Ltd. RECOGNIZING the mutual interest in the fields of education, training and development and The indexigned agree to this MOU on behalf of their respective Universities: semination of knowledge and skill, FOR Vinial Jyothi Engineering College, Chemperi. RECOGNIZING the importance of institutions of higher education's role in promoting collaboration, skill training, education and increased contribution to social development, TOTA DATA MALAND Sampon DVI -THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set Mini remerine ocure Countied is out in the articles following beresonde Date: ARTICLE 1: SCOPE OF THE COLLABORATION FOR Avadha Edutech Per List, BANGLORE. The general purpose of this MOU is to facilitate cooperation training, soft skill incultation, couching and academics between the parties hereander based upon the principles of enotial benefit and may include the following general cooperation areas: GENERAL AREAS OF COOPERATION Joseph George 1.1 Joint educational and training activities. Joseph George 1.2 Exchange of students and faculty for the purpose of training and coaching. 1.3 Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of beth institutions. 1.4 Extension of invitations for attending scholarly and technical meetings as well as national and international conferen ARTICLE II: THE AGREEMENT

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ELECTED STUDENT CLASS REPRESENTATIVES

<u>S1 ME</u>



MR. JOEL SUNNY



MS. ANUMOL BINOY

<u>S3 ME</u>



MR. VAISHNAV P V



MR. VYSHNAV R

<u>S5 ME A</u>



MR. VIJAY KRISHNA A K



MR. VYSHAKH M

<u>S5 ME B</u>



MR. MILAN S CHALIL



MS. ANJU M

MECHNOVA

ELECTED STUDENT CLASS REPRESENTATIVES

<u>S7 ME A</u>



MR. SRIPIN PRADEEP M K



MR. ALAN SEBASTIAN



MR. NIVED P



MS. SANDRA MARIA SAJY

S3 M-TECH

<u>S7 ME B</u>



MR. AKHIL JOHN GIBSON

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FEBRUARY 2022

Page 6

PAPER PUBLICATIONS

Dr. Sreekanth M P, assistant Professor, ME, VJEC, published the following papers.

1. A paper entitled "Investigation on mechanical properties for PolyJet-printed parts involving material reduction strategy" is published in the journal "International Journal of Rapid Manufacturing" (2021, Vol. 10, No. 1).

2. A paper entitled "Preliminary Prototype and Analysis of a Customized Handle for Winding Machine using Fused Filament Fabrication" in the "online technical sessions of 36th Indian Engineering Congress" organized by The Institution of Engineers (India), Kolakata during 15 - 16, December 2021.

FACULTY ACHIEVEMENT

CONGRATULATIONS



MR. DEEPAK KUMAR E

Mr. DEEPAK KUMAR E (Assistant Professor, Department of Mechanical Engineering, VJEC) secured admission for PhD, in IIST Trivandrum.

GLIPMSES OF DEPARTMENT CHRISTMAS CELEBRATION





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. Alex George (Asst. Prof, ME)

Student Editors:

Mr. Nived P (S7 ME), Ms. Arya Santhosh (S7 ME)