

# VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

# MECHNOVA



JUNE 2022 VOL 10, ISSUE 3

#### LATEST IN MECHANICAL ENGINEERING!!

#### DIGITAL MANUFACTURING

The name indicates that the manufacturing is controlled by means of numbers or numerals in the digital form i.e. write the G codes and M codes in a program and that can be operated by means of a central computer. As there are more automated tools in the manufacturing industry, it is the duty of the industry to model, run the simulation and analyze the machines, input materials, and tooling.

# Inside this issue:

- Famous Mechanical Engineering
   Inventions
- Vision, Mission
- Seminar On
- "Career Opportunities In Various Sectors In The Field Of Mechanical Engineering"
- Industrial Visit
- Sports Day
- Arts Fest
- Charity Pilgrim
- PTA meetings
- Placement
- Appreciation To Our Students
- Project Funding
- Paper review
- Welcome our new faculty
- PEOs
- POs and PSOs

# <u>VISION</u>

"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.

JUNE 2022

# SEMINAR ON "CAREER OPPORTUNITIES IN VARIOUS SECTORS IN THE FIELD OF MECHANICAL ENGINEERING"



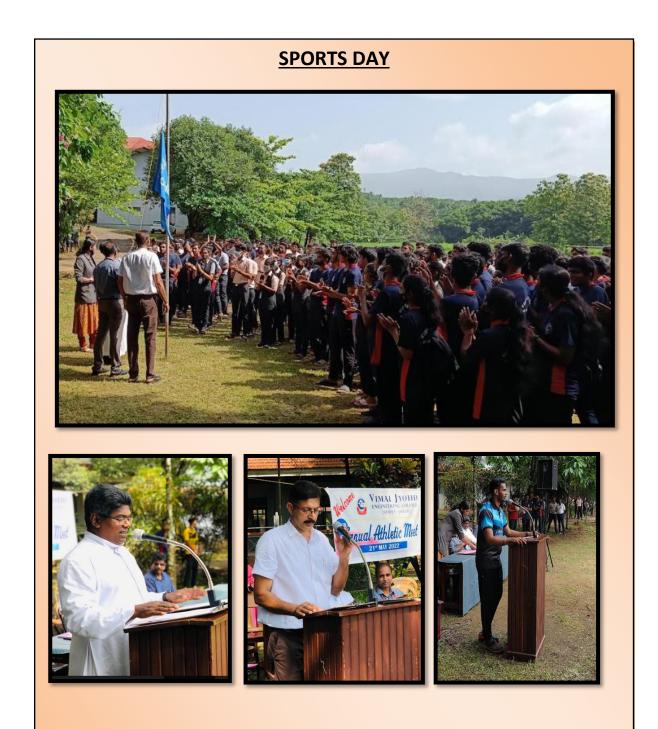
The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur in association with MTTC INTERNATIONAL LLC, organized a Career oriented Seminar on "Career opportunities in various sectors in the field of Mechanical Engineering" on 19-04-2022 from 1.30 pm to 3 pm. The session was conducted for fourth year students from the Department of Mechanical Engineering. Twenty one students participated in the seminar. The convener of the program was Cdr. (Retd.) Raju K Kuriakose, Head of the Mechanical Engineering Department, VJEC. The session was coordinated by Mr. Gokulnath R (AP, ME), Mr. Jerin Saji (AP, ME) and Mr. Aji Augustine (AP, ME). The resource person was Mr. Shywin Thomas, faculty, MTTC, Ernakulam, Kerala. MTTC INTERNATIONAL LLC is Scientific & Technical Education Development Council (STED) Authorised Training Centre.

#### **INDUSTRIAL VISIT**





As part of KTU Academic curriculum, the S8 ME- B students of Mechanical Engineering Department visited two Industries in Goa and Chikmagalur as part of 3 days IV to get an exposure to the Industrial environment. Hence In this regard Chikmagalur Coffee, Mandovi Dry Docks, Shipyard, Rassaim, Goa acknowledged our request to visit the facility and permission were granted to visit on 1st and 2nd Apr 2022. The contingent visiting the facility comprised of 30 students including 2 staffs and 2 local guardians.



The college sports day was conducted on 21-05-2022. Jury of Appeal were Rev. Fr. James Chellamkott (Manager), Dr. Benny Joseph (Principal), Sri. Shaji.M.A (Associate Prof., Physical Edn.). Managers of the meet were Rev.Fr. Lazar Varambakath (Bursar, VJEC) and Sri. Sebastian K J (P.R.O). The Competition Director was Sri. Shaji.M.A (Associate Prof., Physical Edn.) and referee Ms. Jancy Joseph (Coach). Various events were conducted as a part of the event.

## ARTS FEST 2022



The college arts fest was celebrated on 23<sup>rd</sup> and 24<sup>th</sup> May 2022. Some of the Onstage events were Recitation, Elocution, Stand Up Comedy, Debate, Anchoring, Mimicry, Mono Act, Mime, Malayalam Skit, Duff Muttu, Western Music, Desk Knock Music, Light Music, Karaoke, Mapplappattu, Folk Song, Chain Song, Western Song, Classical Music, Instrument Music, Cinematic Dance etc. Some of the offstage events were Essay, Story, Short Movie Script Writing, Versification, Pencil Drawing, Cartoon Drawing, Collage With News Paper, Mehandhi, Face Painting, Caricature, Embroidery, Short Film, Photography etc. Music performance by Mr. Hanan Shah and Band performance by Bro House added more colours to the fest.



S2 ME students visited "Snehabhavan", an old age home situated at Thirumeni in Kannur District on 20th May 2022 as part of the "Charity Pilgrim 2022" for the academic year 2021 - 22. "Snehabhavan" started and ran by Fr. George Nelluveli. Students interacted with inmates and handed over their contribution. Started the journey at 9.30 AM from the college and reached Thirumeni at 11.30 AM. Returned at 01.30 PM and reached college at 3.30 PM.

# **PTA MEETINGS** OTHI - CHEMPERI CHEMPERI

PTA meetings were conducted on the following dates

S2 – 25.05.2022

<u>S6 –26.05.2022</u>

S4 -30.05.2022

The meeting consisted of the addressing by The Principal, Management representatives, HODs and prize distribution for class toppers and for special achievements.

# **PLACEMENT**

1. Mr. Pranav Sreejith, of S8ME, has got a placement offer from Genpro Research Inc, Trivandrum.

2. Twenty seven students, from final year Mechanical Engineering, in the attached list, are selected for placement by Colonial Lumbers, Taliparamba.

- SALVIN SAJI
- YAKUL SIDHARTH
- ROSH GEORGE
- ALVIN SEBASTIAN
- ABHISHEK ANIL
- SOURAV RAJEEV M
- AKHIL K S
- ARJUN BABU
- AKSHAY K
- ANAS ABDHULLA A
- ANURAG T K
- ASWIN C RAMESH
- SHAYMLAL M
- BAVANEETH K
- MUHAMED AMEEN
- MAHITH E
- DHYAN S NAMBIAR
- SREERAG M
- MELVIN K JIJI
- SREEPRASAD P C
- P FAISAL
- SOURABH PRAMOD.C
- ABHIJITH T V
- SREERANJ M
- SANJAY M
- YADUNANDAN RAM T E
- SRIPIN PRADEEP M K

## **APPRECIATION TO OUR STUDENTS FOR PROJECT WORK**

Indian Army has sent a letter of appreciation for the project work carried out by the following final year Mechanical Engineering students.

- 1. Mr. Alan Sebastian
- 2. Mr. Harishankar MV
- 3. Mr. Narayana Prasad V E
- 4. Mr. Rithun Hari P

The project was supervised by Dr. P Sridharan, Associate Professor, Department of Mechanical Engineering.

<page-header><page-header><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/></page-header></page-header>	Ó	मेजर अंबरीष ही वी उप बम्पान आधिकारी <b>Maj Ambareesh TV</b> Second in Command Tele Army : 440191-6153 (0)	419 अपसारल इंपोलियर चववाडून पिंग - 914419 बारा 56 ए पी जो 419 Assault Engineer Squadron Pin - 914419 C/o 58 APO
Vinal Jyothi Engg College         Appreciation: Remote Mine Carrier         Open Station: Station of "Remote Mine Carrier" are impressive and commendable.         (a) Nationariar MV: SB Mechanical         (b) Harishankar MV: SB Mechanical         (c) Alan Sebestian: SB Mechanical         (d) Rithun Hari P: SB Mechanical         (d) Rithun Hari P: SB Mechanical         (d) Rithun Hari P: SB Mechanical         (e) Rithun Hari P: SB Mechanical         (f) Rithun Hari P: S		26272/ DOI 22 1A	66 Apr 2022
Appreciation: Remote Mine Carrier      Orac Sr.      Appreciation: Remote Mine Carrier      Orac Sr.      Annotation: Comparison of the state o		Vimal Jyothi Engg College	
<ul> <li>1. This is to appraise you that the efforts by undermentioned students of your college in design and fabrication of "Remote Mine Careford" are impressive and commendable:         <ul> <li>(a) Narayana Prasad VE : S8 Mechanical</li> <li>(b) Harishamkar MV 'S8 Mechanical</li> <li>(c) Alan Sebastian : S8 Mechanical</li> <li>(d) Rithun Hari P: S8 Mechanical</li> <li>(e) Rithun Hari P: S8 Mechanical</li> <li>(f) Rithun Hari P: S8 Mechanical</li> <li>(f) Rithun Hari P: S8 Mechanical</li> <li>(g) Rithun Hari P: S8 Mechanical</li> <li>(h) The group was eager and motivated throughout the process and have been very professional in their approach and behaviour. The students could quickly grasp the concept and were very prompt in reverting back with periodic feedbacks and queries.</li> </ul> </li> <li>The final outcome have turned out to be as expected. The equipment is currently under this at unit level and shall be showcased to various dignitaries and inspection teams in days to come. The innovation/I modification by the teams for M 18 Claymore service mine have received ample appreciation from the environment.</li> <li>I would like to congratulate the team for their outstanding efforts and the college and to lis faculty for their tytelege and grooming.</li> </ul>	UNIT APPRECIATION - 2019-20		emote Mine Carrier
1. This is to appraise you that the efforts by undermentioned students of your college in design and tabrication of "Remote Mine Carrier" are impressive and commendable:     (a) Narayana Prasad VE : S8 Mechanical     (b) Harishankar MV : S8 Mechanical     (c) Harishankar MV : S8 Mechanical     (d) Rithun Hari P : S8 Mechanical     (e) Anaisonal their sector of the process and have been very professional in their approach and behaviour. The students could quickly grasp the concept and were very prompt in reverting beck with periodic feedbacks and queries.     (d) The final outcome have turned out to be as expected. The equipment is currently under that al unit level and shall be showcased to various digritaries and inspection teams in days to come. The innovation/modification by the team for M to Claymore service mine have received ample appreciation from the environment.     (d) I would like to congratulate the team for their outstanding efforts and the college and to fis faculty for their turbelege and grooming.		1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	
<ul> <li>have been very professional in their approach and behaviour. The students could quickly grasp the concept and were very prompt in reverting beck with periodic feedbacks and queries.</li> <li>The final outcome have turned out to be as expected. The equipment is currently under trial at unit level and shall be showcased to various dignifaries and inspection teams in days to come. The innovation/modification by the team for M 18 Claymore service mine have received ample appreciation from the environment.</li> <li>I would like to congratulate the team for their outstanding efforts and the college and its fooluty for their tutelage and groming.</li> </ul>		students of your college in desig Carrier" are impressive and com (a) Narayana Prasad V (b) Harishankar MV : S (c) Alan Sebastian : S8	n and fabrication of "Remote Mine mendable: E : S8 Mechanical 8 Mechanical Mechanical
3. The final outcome have turned out to be as expected. The equipment is currently under that at unit level and shall be showcased to various dignitaries and inspection teams in days to come. The innovation/ modification by the team for M 18 Claymore service mine have received ample appreciation from the environment.     4. I would like to congratulate the team for their outstanding efforts and the college and its faculty for their tutelege and grooming.	<b>_</b>	have been very professional in students could quickly grasp the	their approach and behaviour. The concept and were very prompt in
and the college and its faculty for their tutelage and grooming.		equipment is currently under trial to various dignitaries and inspe innovation/ modification by the te	at unit level and shall be showcased ction teams in days to come. The am for M 18 Claymore service mine
Expecting more such brilliount teams to come ook and and the homed forces in future Warm Regards,		and the college and its faculty for their tutelage and grooming.	
Welling Admint		Expecting more suc	h brilliant terms to come Armed Forces in Fulie
"yespine" A built		0	Sarm Regards,
	To Hall Maria	$\sim$	Alman

#### PROJECT FUNDING

The following projects by final year Mechanical Engineering students was selected for funding, by Innovative Research Promotion Scheme (IRPS) - 2022

1. 'Automatic Waste sorting machine for parks' - Mr. Shahin Gafoor, Mr. Nivedh P, Mr. Melvin K Jiji, Mr. Srerag M. Guided by Dr. Sreekanth MP

2. 'Synthesis and characterization of Bamboo leaf ash reinforced aluminium composites'
 – Mr. Aju Thomas, Mr. Arjun Babu, Mr. Dhayan S Nambiar, Mr. Faisal P. Guided by Dr. Sivaprasd PV

# PAPER REVIEWS

# Dr. S Christopher Ezhil Singh , Professor, ME, reviewed the following Conference Papers

1. Studies on copper ferrite nanoparticles,

2. Detection of fuel adulteration in automobiles,

3. A Comparative Study of Ant Colony Optimization and Genetic Algorithm for Path Planning of Aerial Food Delivery System,

4. An Optimized Path-Planning Concept For A Micro-Mouse Robot for autonomous applications in terrained environments,

5. Comparison of Swarm Optimization Algorithms for Multi-Target Tracking and Detection,

6. Optimisation of Ultrasonic Transducer using FEM Simulation,

7. Effect of U-Net Hyperparameter Optimisation in Polyp Segmentation from Colonoscopy Images.

# DEPARTMENT OF MECHANICAL ENGINEERING

# CONGRATULATIONS

S2 UNIVERISTY EXAM TOPPERS (2020-24 BATCH)



MR. NIRMAL DEV P



MR. VYSHNAV R



MR. ALBINCS

#### WELCOME OUR NEW FACULTY



#### **DR. JITHIN E. V**

Dr. Jithin EV has joined as faculty in 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
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 Editor:**

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

#### **Student Editors:**

#### MS. ARYA SANTHOSH (S8 ME) & MR. NIVED P (S8 ME)

MECHNOVA

**JUNE 2022**