

# **VIMAL JYOTHI ENGINEERING COLLEGE**

**Jyothi Nagar, Chemperi PO, Kannur, Kerala India, 670632**

## **ANNUAL REPORT**

**2020-2021**

Vimal Jyothi Engineering College (VJEC) is an educational project of the Archdiocese of Thalassery established in the year 2002 and is managed by Meshar Diocesan Educational Trust. The college is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU). VJEC is a self-financing catholic minority institution aiming at generating a fervor for Engineering and Technology in students. Here we inspire, nurture and foster them to realize their career potential in the field of Engineering and Technology.

With profound insight into the resource requirements of the higher education system, VJEC has proudly set up world-class infrastructure complemented with intellectual capital in the form of competent faculty. Many of the facilities are way beyond the regulatory requirements aiming for learning beyond the syllabus to address the requirements of the industry. These material facilities along with value addition programs and student support systems are the integral facets of empowerment at VJEC.

**Vision:** To bloom into a Center of Excellence for Technical Education and a pace-setter in rural India with its quality processes and procedures, interwoven with freedom of flexibility, moulding professionals of superior quality, dedicated to the progress and development of Humanity.

**Mission:** To prepare the students to see beyond geographical limit and belong to a new age of acquisition and application of technology to meet the challenges of the changing world. Inspired and guided by gospel values, we contribute to the socioeconomic welfare of the country with due concern to the marginalized.

It is with great pleasure and enthusiasm that we present to you the Annual Report of Vimal Jyothi Engineering College for the year 2020-21. In the ever-evolving landscape of education, Vimal Jyothi Engineering College continues to stand tall as a beacon of knowledge, innovation, and excellence. This report encapsulates our journey, achievements, and the remarkable progress we have made in shaping the future of engineering education.

In the academic year 2020-21, Vimal Jyothi Engineering College (VJEC) continued to uphold its reputation as a premier educational institution, earning recognition from the All India Council for Technical Education (AICTE) for its programs. With an approved intake of 600 seats across diverse engineering branches, VJEC attracted 494 students, showcasing its appeal among aspiring engineers. Despite challenges, the college demonstrated its commitment to nurturing talent, with 127 students securing coveted placements. This impressive placement record reaffirms VJEC's status as a distinguished engineering college, renowned for its quality education and dedication to students' success. The institution's unwavering focus on academic excellence and career-oriented guidance makes it a preferred choice among students, solidifying its position as a leading center for engineering education.

In the following pages, comprehensive information about our academic programs, research initiatives, collaborations, student achievements, and the various outreach activities that have made a positive impact on our local and global communities, are presented. Moreover, this report reflects our financial stewardship and the responsible use of resources, ensuring transparency and accountability to all our stakeholders.

# VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION

### ANNUAL REPORT 2020-21

#### **DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION:**

Department of Electronics and Instrumentation Engineering was started in the year 2005. The department offers UG course, B.Tech in Applied Electronics and Instrumentation . And is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU).

#### **ADMISSION**

Academic Year	Sanctioned Intake	Actual Intake
<u>2020-21</u>	<u>30</u>	<u>21</u>

#### **RESULT**

Academic Year	No: of students Graduated
2020-21	12/23

#### **DEPARTMENTAL ACTIVITIES:**

- Department of Electronics & Instrumentation Engineering conducted 3 days Faculty Development Program(online) on “IoT based Autonomous Robot Design”, sponsored by KTU on 28th April 2021 to 30th april 2021.
- Department of Electronics & Instrumentation Engineering conducted 5 days Faculty Development Program(online) on "Virtual and Augmented Reality for Robotics", sponsored by AICTE training and learning on 12th July 2021 to 16th Julyl 2021.

- Department of Electronics and Instrumentation Engineering is conducted a 25 days training program on PG diploma in industrial automation from 22 nd july to 15 th August 2021 for 2020-21 AEI students.
- Conducted a webinar on “How to build career during Covid -19 “on 19<sup>th</sup> September 2020 for all students of the department, handled by Mr RAMKUMAR.V., ENDEAVOR CAREERS BANGALORE.

#### **FACULTY ACHIEVEMENTS:**

- Road Safety & Navigation, a student project Guided by Dr. G Glan Devadhas Vice Principal VJEC, selected for KTU CRED funding.
- Dr. V Sampathkumar has successfully completed three months distance learning GENERAL COURSE ON INTELLECTUAL PROPERTY by WIPO
- Ms. Shamy A and Mr. Shinu MM completed NPTEL course on Introduction to Embedded System Design
- Ms. Shamy A, Assistant Professor of EIE acquired membership of The International Association of Engineers (IAENG)
- Dr. V Sampathkumar Applied Patent on the topic “Litterobot”
- Dr. V Samathkumar, HOD EIE, nominated to act as a coordinator for ISRO, IIRS outreach program, for the benefit of students of Vim al Jyothi Engineering College by availing the free online courses conducted by IIRS.
- Ms. Jinsa Mathew completed 3 modules of Swayam NITTT courses

#### **FACULTY PUBLICATIONS:**

- Dr. V Sampath Kumar published a paper “Analysis of Sneak Path Issues in Memristor Based 4x4 And 8x8 Crossbar Nonvolatile Random Access Memory Array” in Solid State Technology, Volume. 63, issue.5

#### **FACULTY PARTICIPATION:**

- Ms. Shamy A attended ATAL FDP on "3D Printing & Design" organized by Sathyabhama Institute of technology from 24 aug to 28 aug 2020

- Mr. Shinu M M Attended One-week (6 days) AICTE Sponsored Online Short-Term Training Program on “INTRODUCTION TO ELECTRIC VEHICLES; OPPORTUNITIES AND CHALLENGES - CASE STUDY” organized by Department of Electrical and Electronics Engineering of SAINTGITS College of Engineering, Kottayam from 3rd August 2020 to 8th August 2020.
- Ms. Jinsa Mathew attended online FDP on RECENT TRENDS IN PRODUCT DEVELOPMENT organized by the DEPARTMENT OF MECHANICAL ENGINEERING, JYOTHI ENGINEERING COLLEGE, THRISSUR, Aug 10th to Aug 16
- Ms. Shamy A, attended ATAL FDP on control system and sensor technology on 21-09-20 to 25-09-20 at IIT Nagpur.
- Mr. Shinu M M Attended Three Days FDP on Artificial Intelligence using MATLAB held for the period of 25th February 2021 to 27th February 2021 organized by CoreEL Technologies
- Mr. shinu MM, Mr. Dhanoj M & Ms. Jinsa Mathew Attended 5 days FDP on “Recent Trends in Circuits and Communication (RTCC)” held from February 19-23, 2021 in the Department of Electronics & Communication Engineering, Jaipur Engineering College & Research Center.
- Dr. V Sampathkumar Attended FDP on Opportunities and challenges of Integrating Renewable Energy in Smart Grid from 15.03.2021 to 19.03.2021
- Mr. Dhanoj M & Ms. Jinsa Mathew Attended FDP on "Opportunities and Challenges of Integrating Renewable Energy in Smart Grid" on 15th march 2021 to 19th march 2021 organized by department of EEE, VJEC
- Mr. Shinu M M Attended One Week Online FDP on MACHINE LEARNING WITH ITS MATHEMATICAL FOUNDATIONS on 2/03/2021 -06/03/2021
- Dr. V Sampathkumar Attended AICTE sponsored six days induction program on Recent advancement in HV Engineering"03.03.2021-09.03.2021
- Dr. V Sampath Kumar, Dr. G Glan Devadhas, Mr. Dhanoj M, Mr. Shinu M M, Ms. Reshma K V, Ms. Shamy A, Ms. Jinsa Mathew, Mr. Jollykutty Sebastian and Mr.Thomas M S attended 3 days FDP on IoT based Autonomous Robot Design from 28 - 30 April 2021, conducted by Dept. of EIE, VJEC
- Mr. Dhanoj M attended 5 days IETE sponsored FDP on Python for Engineers from 26 - 30 April 2021.

- Dr, V Sampath Kumar Participated in DST sponsored FDP in Entrepreneurship on 30.03.2021 to 10.04.2021 conducted by CRISP
- Dr, V Sampath Kumar Participated GoK sponsored FDP in Tech FOSS from 19.04.2021 to 23.04.2021 conducted by ICFOSS
- Mr. Jollykutty Sebastian Participated FDP on "ELECTRIC, HYBRID ELECTRIC VEHICLES AND CHARGING INFRASTRUCTURE" from 6th April 2021 to 10th April 2021
- Dr. V. Sampath Kumar, Ms. Reshma KV, Ms. ShamYa A, Mr. Shinu M M, Mr.Dhanoj M, Ms. Jinsa Mathew and Mr.Thomas M S participated ATAL Sponsored online FDP on Virtual & Augmented Reality from 12th July to 16<sup>th</sup> July 2021 conducted by Vimal Jyothi Engineering College.
- Mr. Jollykutty Sebastian participated ATAL sponsored online FDP on Advances in Earthquake Engineering From 26th July to 30th July 2021 conducted by LBS college of Engineering, Kasaragod
- Ms. Jinsa Mathew Participated online FDP in Innovation, Incubation, Startup & Research Challenges in India Organized by SRM institute of Science & Technology on 28th June to 2nd July 2021
- Dr. V Sampathkumar attended Higher Education Conclave on NBA & ABET by Microsoft Partner and Mastersoft on 9<sup>th</sup> January 2021
- Ms ShamyA attended webinar on Use of LMS,Virtual teaching and OBE software for Engineering colleges
- Ms RESHMA K V-Attended webinar for faculty development program on outcome-based education software organized by vmedulife software services on 4<sup>th</sup> July 2020.
- Ms. ShamyA A, Assistant Professor of EIE attended webinar on “Prototyping and implementation of FPGA/ASIC design using Matlab and Simulink” organized by CoreEL Technology, on 30th October
- Ms. ShamyA attended webinar on digitalization in power system on 8/8/2020
- Ms. Jinsa Mathew webinar on How to build career during Covid -19 on 19/9/2020
- Dr. V Sampathkumar Participated in Dekho Apna Desh webinar by Ministry of Tourism on 22nd January 2021
- Mr. Dhanoj M attended Webinar on Enhancing Quality Teaching Strategies through OBE - 02 & 03.03.2021, AICTE Exam reforms Policy - 04.03.2021, and Industrial Automation using PLC - 15.03.2021

- Dr. V Sampath Kumar attended Webinar on Solid State Drives organized by Department of Electrical and Electronics Engineering, MSAJCE, Chennai on 29/05/2021,
- Dr. V Sampath Kumar attended Webinar on “ASSESSMENT OF INCINERATION OF MUNICIPAL SOLID WASTE” organized by EnvoTech club, Department of Civil Engineering, Christ College of Engineering, Irinjalakuda on May 15, 2021
- Dr. V Sampath Kumar attended International Webinar on “Exploring Realtime Technology” organized by Department of Electrical and Electronics Engineering, MSAJCE, Chennai on 31/05/2021.
- Mr. Dhanoj M Attended international webinar on EV Charging stations on 10<sup>th</sup> April 2021
- Ms. Shanya A attended Two-day online workshop on Art of technical writing organized by jyothi engg. College
- Ms. Reshma KV attended 3-day workshop on “Research Methodology” organized by Annai Vailankanni College of Engineering from 02.06 2021 to 04.06 2021
- Ms. Reshma K V attended IEEE sponsored 3-day workshop on "Research Methodology from 2nd June to 4th June 2021 conducted by ANNAI VAILANKANNI COLLEGE OF ENGINEERING, Kanyakumari.
- Ms. Jinsa Mathew Participated in 10 hours online workshop on CS50 for Educator held 17th july – 18July 2021 conducted by Harvard University – Continuing Education Division.
- Dr. V Sampathkumar attended National Level Research Seminar on Green Energy-2021 on 20.03.21
- Dr. V Sampathkumar attended Two-day national seminar on Enhancing quality teaching strategies through OBE on 2<sup>nd</sup> & 3<sup>rd</sup> march 2021.
- Ms. Jinsa Mathew attended NAAC sponsored two-day National level online seminar on Enhancing Quality Teaching Strategies through Outcome Based Education.

**FUND SANCTIONED:**

- A Perennial fund award of Rs. 1,75,000- has been awarded to college and we are among the 78 Participating Institutes of UBA receiving the fund. The programs were conducted under the leadership of Dr. V.Sampath Kumar, HOD, AEI.

- Road Safety & Navigation, a Student project Duided by Dr. G Glan Devadhas Vice Principal VJEC , selected for KTU CRED funding.
- Dr. V Sampath Kumar-Wild Boar Alarming System for Village Farmlands in Alakkode, Kannur District of Kerala- Rs. 100000/- funded by UBA
- Dr. V Sampathkumar- Student Startup Grand of Rs.400000/- by MHRD
- Dr. V Sampath Kumar- Rubber Gloves making machine- Rs. 100000/- funded by UBA

### **STUDENTS ACHIEVEMENTS:**

- Mr. Sreehari T V of 2017-21 batch achieved Honours Degree in B.tech Applied Electronics & Instrumentation
- Ms. Anamika c, Ms.Anusree K, Mr. Salvin Jose & Mr. Mahesh P G of S3 AEI achieved second prize in SHODH2K20 National level innovation covid- challenge
- The team of Ms. Anusree K, Mr. Mahesg P G and Mr. Salvin K Jose of S3 AEI on the project title ‘IOT based Electronics total station for survey got selection in Second level in National Innovation contest 2020 conducted by Institution’s Innovation cell, AICTE.
- The team of Mr. Mahesh PG & Ms. Anusree K with project on ‘Personal Health Care Wearable Watch & Covid-19 remote health monitoring system’, got selection in Second level in National Innovation contest 2020 conducted by Institution’s Innovation cell, AICTE
- Mr. Robin Jose- S8 AEI is the team member to Develop COVID BUSTER – an automated QR code based thermal scanner, As the part of Software development Cell VJEC.
- Ms. Sneha Jose- S6 AEI, Completed the Microskills Virtual Learning on Machine Learning & AI conducted by ICT Academy of Kerala During 1<sup>st</sup> march to 27<sup>th</sup> March 2021.
- Student project of Mr. Robin Jose & Ms. Jiss Mathew of S8 AEI selected for KTU CRED project funding.
- Ms. Mhsufa, Ms. Karthika & Ms. Sneha Jose of S6 AEI Selected in second level Evaluation of YIP conducted by K-DISC.
- Mr. Mahesh PG of S4 AEI participated in second level Evaluation of Young Innovators Program conducted by K-DISC.

### **STUDENT PLACEMENT:**

ABHISHEK.K  
AKSHAY.P

M/s Satt Industrial Automation pvt Ltd chennai  
M/s Intelle Power Systems,Coimbatore



AMAL RAJ.P	Primo Automation PVT.Ltd.
ANANDHU PRAKASH	Eurocon instruments Pvt Ltd
ANU SAJEEV	Higher studies
JINCE JOSEPH	M/s Satt Industrial Automation pvt Ltd chennai
JIS MATHEW	Infosysis,Qspider
MATHEW SEBASTIAN	Digital instruments and control system
	Digital instruments and control system,UST
	global
PRANAV.C	Solaric control system
ROBIN JOSE	Digital instruments and control system
SARATH CHANDRAN	Higher studies
SONIMA RAJEEVAN	Accurate automation and control,UST Global
SREEHARI	M/s Intelle Power systems ,Coimbatore
VISHNU M T	Accurate automation and control
YADULEKH.J	Eurocon instruments Pvt Ltd
AKSHAY.K	M/s Primo Automation systems Pvt Ltd
VISHNU KK	M/s Intelle Power systems ,Coimbatore
ANURAG NP	M/s Intelle Power systems ,Coimbatore
RAMGEETH V P	M/s Intelle Power systems ,Coimbatore
ASWAD S KUMAR	Taurean Pac ,Chennai

#### **PROFESSIONAL BODY ACTIVITIES:**

- Workshop on PCB design and implementation, 25-10-2020
- Workshop on Knowledge-based control system design using MATLAB, 23/11/2020
- Workshop on LabView Based Data acquisition system, 23/10/2020
- Workshop on Introduction to PLC and SCADA, 21-09-2020
- Webinar on How to crack Gate @ first Attempt, 04-09-2020
- Webinar on Cyber Laws for Indian Youth, 22-8-2020
- Webinar on “How to build careers during covid19” conducted by endeavor careers, 19-09-2020
- Workshop on Industrial Robotics, 02/07/2020.

**VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**ANNUAL REPORT 2020-21**

**ADMISSION AY 20-21 FIRST YEAR**

SANCTIONED INTAKE: 90

NO OF STUDENTS ADMITTED: 60

**RESULTS 2020-21 BATCH**

NO OF STDENTS REGISTERD: 104

NO OF STUDENTS GRADUATED: 65

**NATIONAL/INTERNATIONAL CONFERENCES ORGANIED:**

1. II International Conference on Technological Convergence in Engineering, Energy, and Sustainability (ICTCEES-2020) was conducted online by the Department of Mechanical Engineering, VJEC on 18-07-2020 and 19-07-2020. Dr. Donghoon Shin (Professor, School of Mechanical Engineering, Kookmin University, Seoul, Korea) inaugurated the event. Dr. Mohammed AL-Saidi (Professor, College of Applied Sciences-Sohar, Ministry of Higher Education, Oman) and Mr.B Raha (General Manager, (R&D, Metallurgy) Peekay Steel Castings (P) Ltd, Calicut) were the Guest of Honors.

**SEMINARS/TECHNICAL TALK CONDUCTED:**

1. The Department of Mechanical Engineering, VJEC conducted a webinar on 'Industrial relevance of Mechanical Engineering', was conducted on 3rd June 2020 from 4.00 pm to 5.00 pm . The webinar was conducted for second semester students of Mechanical Engineering.

2.The Department of Mechanical Engineering, VJEC conducted a webinar on 'Opportunities in aerospace industries and what the Industry is looking for' on 11th June 2020 from 3.00 pm to 4.00 pm.

3. The Dept. Of Mechanical Engineering, VJEC conducted a Technical talk on 'online teaching methodologies' on 17th July 2020.

4. 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.

5. The webinar on "Next Generation Solar Thermal Collectors" was held on 14<sup>th</sup>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.

6. The webinar on “Advances in Energy Research” was held on 05<sup>th</sup>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.

7. The webinar on “In-cylinder Flow Analysis in an IC Engine using PIV” was held on 04<sup>th</sup>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. J.M. Mallikarjuna (Professor, Internal Combustion Engines Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Madras).

8. 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.

9. 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.

10. The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur in association with Ganesh Piping, Mumbai, organized a Webinar on ‘Opportunities for Young Engineers in Oil & Gas Sector’ using Google Meet from 12:00 pm to 01.00 pm on 17-10-2020.

11. On 07<sup>th</sup> of November 2020, Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur organized a national level webinar on “3D Printing Materials and Software” using Google Meet at 11:00 AM to 12.30 PM for final year Mechanical Engineering students.

12. On 17<sup>th</sup> of October 2020, Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur organized a webinar on “Additive Manufacturing (3D Printing) – Innovative Manufacturing Technique for Engineers” using Google Meet at 12:30 PM to 01.30 PM for pre-final year Mechanical Engineering students.

13. On 17<sup>th</sup> of October 2020, Department of Mechanical Engineering, VimalJyothi Engineering College, Chemperi, Kannur organized a webinar on “Military War Machines and Indian Space Programmes” using Google Meet at 11:00PM to 12.30 PM for second and pre-final year Mechanical Engineering students.

14. On 21-11-2020, Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur organized a webinar through Google Meet (ved-sdyq-qr) at 11:00 AM for pre-final and final year Mechanical Engineering students on “How to Write a Technical Paper”. It was conducted as a curricular gap bridging event related to the V<sup>th</sup> and VII<sup>th</sup> Semester KTU Courses “Design Project” & “Seminar and Project Preliminary” for pre-final year and final year students

15. On 04<sup>th</sup> of May 2021, Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur organized a webinar on “Career options for Mechanical Engineer in HVAC & MEP BIM” using Google Meet at 03:00 PM to 04.00 PM for final year and third year Mechanical Engineering students.

16. The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, organized a webinar on “Orientation Program on Product Design & Manufacturing with Autodesk Fusion 360” using Google Meet on 25<sup>th</sup> of May 2021, from 3 pm to 4 pm, for Second year Mechanical Engineering students. It was conducted as a curricular gap filling program.

17. The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, organized a webinar on “Employable Skillsets required in core mechanical industries”, on 29-05-2021 from 3pm to 4 pm.

### **TRAININGS ORGANISED:**

1. 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.

2. The Department of Mechanical Engineering, VJEC organised a three weeks online Hands on Workshop on “MATLAB in Interdisciplinary Engineering Research” from 14<sup>th</sup> December 2020 to 02<sup>nd</sup> January 2021 with a sessions from 05.00 pm to 07.00 pm. The workshop was conducted in association with B.M.S College of Engineering, Bull Temple Road, Bengaluru, Karnataka, India using Google Meet online platform for faculty, Research Scholars and P.G Scholars from India.

3. Students from S6 ME participated in the online placement training organised by the Training and Placement cell of VJEC, from 23-03-2021 to 31-03-2021, from 3 pm to 5pm. 31 students attended the same. It was conducted in collaboration with the institute ‘Insight Job Guru, Trivandrum’. Mr. Renjith Kesav and Mr. K Rahul were the resource persons.

### **MEETINGS ORGANISED:**

1. The Department of Mechanical Engineering, Vimal Jyothi Engineering College Chemperi, conducted an meeting of farewell to final year students (2016-20 batch), online, on 15-07-2020 from 10 am to 11.30 am.

2. Online alumni meetings were conducted for all the graduated batches of students. They were conducted on various dates from 07-06-2020 to 28-06-2020. The meeting witnessed the reunion of old students of VJEC, year wise.

3. The PTA Meetings for S3 ME A & B (2019-23 batch) and S5 ME A & B (2018-22 batch) were conducted on 21-07-2020 from 10:00 AM to 11:30 AM and the PTA meeting for S7 ME A and B (2017-21 batch) was conducted on 21-07-2020 from 3 pm to 4.30 pm through the Online Platform Google Meet. The participation on parents side was quiet impressive. 102 parents attended the meeting along with their wards.

4. 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.

5. Boot camp was conducted from 05-10-2020 to 06-11-2020 for the new admission students of 2020-24 batch through online platform. In the inauguration function conducted on 05-06-2020, the Rev. Fr. Thomas Valiplackal, the management representative, gave the benediction. Cdr.(retd.) Raju K Kuriakose, Head of Mechanical Engineering Department, VJEC, introduced the department to the students and parents present for the inauguration function.

6. The PTA Meetings of all semesters were conducted online. The meeting for S3 ME A & B (2019-23 batch) was conducted on 21-10-2020 with participation of 57 parents. The meeting of S5 ME A & B (2018-22 batch) were conducted on 22-10-2020 and 61 parents participated in the same. The PTA meeting for S7 ME A and B (2017-21 batch) was conducted on 23-10-2020 and about 90 parents attended the same.

7. An online PTA Meeting for S1 ME (2020-24 batch) was conducted on 18<sup>th</sup> February 2021; 02:00 pm to 03.00 pm, through the online platform of Google Meet. 56 parents, within a strength of 61 students, attended the meeting along with their wards.

8. The PTA meeting of classes S8 ME A, S8 ME B and S6 ME batches were conducted on 21-05-2021, 25-05-2021 and 26-05-2021 respectively. The Head of the Department, Cdr.(Retd.) Raju K. Kuriakose was the convenor of the session. Principal, Dr. Benny Joseph, management representative (VJEC) Mr. K J Sebastian Puthenpura, Mr. Justin Augustine, Training & Placement Officer, VJEC and faculties handling both theory as well as lab courses attended the meeting.

#### **PAPER PUBLICATIONS/PRESENTATIONS:**

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.

5. Dr. S.Christopher Ezhil Singh (Professor, ME,VJEC) published paper on, “Tensile and compression behaviour, microstructural characterization on Mg-3Zn-3Sn-0.7Mn alloy reinforced with SiCp prepared through powder metallurgy method”, Materials Research Express – IOP Science, Vol.7 (10), pp.1-9, I.F:1.929. (2020)

6. Dr. S.Christopher Ezhil Singh (Professor, ME,VJEC) published paper on “Taguchi Design for Wear Behaviour of Al-Si-B<sub>4</sub>C Composites Prepared by Powder Metallurgy”, International Journal of Innovative Technology and Exploring Engineering, Vol. 9, No.12, pp.1-4. (2020)

7. Dr. S.Christopher Ezhil Singh (Professor, ME,VJEC) published paper on “Dry Sliding Friction of Al-Si-B<sub>4</sub>C Composites Prepared Through Powder Metallurgy using Taguchi Design”, International Journal of Innovative Technology and Exploring Engineering, Vol. 9, No.12, pp.5-8. (2020)

8. Dr. S.Christopher Ezhil Singh and Dr. T.D.John (Professors, Department of Mechanical Engineering, VJEC) published paper on “Optimization on Friction and Wear Behaviour of Al-Si Alloy Reinforced with B<sup>4</sup>C Particles by Powder Metallurgy using Taguchi Design” in *Bulletin of the Polish Academy of Sciences: Technical Sciences*, Vol. 68, No. 6, pp.1393-1402, **I.F:1.385**.

#### **FDPs/STTPs ORGANISED:**

1. The Two Weeks Faculty Development Programme on “Nano composites and Nanomaterials and it’s Characterization” was organized online by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi from 08<sup>th</sup> June 2020 to 22<sup>nd</sup> June 2020.

2. The online one week Faculty Development Programme on “Frontiers of Research in Thermal Sciences” was held from 27<sup>th</sup> August 2020 to 03<sup>rd</sup> September 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.

#### **FDPs/STTPs/WEBNARS ATTENDED:**

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

1)

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

2) Workshop on AICTE exam reforms policy organised by IQAC, VJEC Chemperi on 04-03-2021

**Dr. Sridharan P (Associate Professor, ME) attended the following programmes.**

- 1) Webinar on APPLICATION DESIGN OF BRAIN COMPUTER INTERFACE (BCI) organised by ADAMAS UNIVERSITY- KOLKATTA on 13-06-2020.
- 2) Webinar on Internet of Things using Arduino organised by Dr. Shyama Prasad Mukherjee University, Ranchi on 16-06-2020.
- 3) Webinar on Internet of Things using Node MCU organised by Shiv Kumar Singh Institute of Tech&Sci, Indore, MP on 23-06-2020.
- 4) Webinar on DESIGN OF BRAIN COMPUTER APPLICATIONS organised by NIT JALANDAR on 26-06-2020.
- 5) Webinar on Nano Satellite Constellation: Space – based Internet of Things in New Space Era organised by RVS College of Engineering and Technology, on 27-06-2020.
- 6) FDP on RENEWABLE ENERGY SYSTEMS organised by RVS College of Engineering and Technology, from 01-06-2020 to 05-06-2020.
- 7) FDP on “Grid 4.0 & Industry 4.0 - An overview” organised by RVS College of Engineering and Technology, on 06-06-2020.
- 8) An International Webinar on "Envision Towards Particle Sciences and Biodiesel Production" Organized by KPR institute of Engineering and Technology, Coimbatore on 27.07.20-28-07-20.
- 9) Webinar on Journey of Establishing a Digital Twin, Organized by PSG College of Technology, Coimbatore,(Government Aided Autonomous Institution)Coimbatore - 641004, on 27.07.2020.
- 10) Webinar on Image processing Applications, Organized by AIMIT Manglore on 3.7.2020.
- 11) Webinar on Object Recognition YOLO Cloud, Organized by Khalsa College, Ludihiana on 10.7.2020.
- 12) Webinar on Robotic Operating System, Organized by ADAMA Science And Technology University ETHIOPIA on 17.7.2020.
- 13) Webinar on Brain Computer Interface and Research Opportunities Organized by AISSMA Institute of Technology, Pune on 21.07.2020.
- 14) Webinar on IIOT Industry 4.0, Organized by Sree Ramachandra College of Engineering, Eluru on 25.07.2020.

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

- 1) Webinar on Funding Projects, Consultancies and Book Writing, organized by EC Department, VJEC on 08-07-2020.
- 2) Webinar on Networked Microgrids Energy Management System, organized by IEEE – PESSB VJEC on 10-07-2020.

- 3) Webinar on Employability Post COVID Era: Expectation of Industry Vs Education System's Preparedness, organized by ASSOCHAM on 11-07-2020.
- 4) Webinar on Retailing in new normal, organized by IEDC-VJEC on 17-07-2020.
- 5) Webinar on Digital Transformation: Opportunities and Challenges in the COVID era, organized by IEDC-VJEC on 21-07-2020.

**Dr. Sreekanth M P (Assistant Professor, ME) attended the following programs:**

- 1) Webinar on 'Industrial Relevance of Mechanical Engineering' organized by ME Dept, VJEC, Chemperi on 03-06-2020.
- 2) Webinar on "Outcome Based Education Software" organized by VMEDULIFE Software Services on 04-06-2020.
- 3) FDP on "Nanocomposites and Nanomaterials and It's Characterization", organized by ME Dept, VJEC, Chemperi during 08-06-2020 to 20-06-2020.
- 4) Webinar on "Recent Advances in Metal Based Additive Manufacturing Process" organized by Department of Mechanical Engineering, St. Joseph's Institute of Technology, Chennai on 24-06-2020.
- 5) Webinar on "Recent Research and Development in Additive Manufacturing" organized by Department of Mechanical Engineering and Additive Manufacturing Zone, Amal Jyothi College of Engineering, Kanjirappally, Kottayam on 25-06-2020.
- 6) Attended a marketing webinar on "Introduction to multi-purpose, multi-material additive manufacturing machine in education, product development, and research and development" by Mr. Shashidhar. N. C, Advance Mechanical Services Pvt. Ltd., and Mr. Saroop Chand, Adroitinfo on 05, July 2020 organized by Suprajiv Technical and Management Studies, Bangalore using Zoom.
- 7) Webinar on "Train the trainer - Additive Manufacturing" organized by Suprajiv Technical and Management Studies, Bangalore on 01, November 2020.
- 8) Webinar on "Insights from VBN Components: Redefining wear resistance through 3D printing of hard metals with high carbide content" organized by GE Additive on 04, November 2020.

**Mr. Alex George (Assistant Professor, ME) attended the following programmes:**

- 1) Webinar on Introduction to CFD – Skill by Sathyabama university on 01.06.2020
- 2) Car Design Webinar by Launchpad Academy 01.06.2020
- 3) Webinar on Enhance Your Knowledge: Tips and Tricks for CFD Meshing by Ansys on 02.06.2020
- 4) Webinar on Introduction to Machine Learning and the ML Pipeline by amazon 04.06.2020



- 5) Webinar on Advanced Technique for Energy Efficient Device and MATLAB by SNGIST Indore 07.06.2020
- 6) Webinar on Opportunities in aerospace Industries' by ME dept , VJEC on 11.06.2020
- 7) Webinar on Motoring Journalism and the Future of Motorcycles by Sri Ramakrishna Institute of Technology on 13.06.2020
- 8) FDP on Contemporary Developments In Manufacturing Processes, Sustainable Manufacturing And Industrial Technologies by Pragati Engineering College, Department of Mechanical Engineering, Surampalem, Andhra Pradesh from 09.06.2020 to 13.06.2020
- 9) FDP Recent Advances in Mechanical Engineering by SNGIST indore on 09.06.2020
- 10) Webinar on Scanning Electron Microscopy and X-ray Microanalysis By Jyothi Engineering College on 20.06.2020
- 11) FDP on Effective Research Writing Using LaTeX by Pragati Engineering College, Department of Mechanical Engineering, Surampalem, Andhra Pradesh on 22.06.2020 to 27.06.2020
- 12) Integrating CAD/ CAE Design technology for Engineering Applications by AWH Engineering College on 17.06.2020
- 13) Webinar on Guidelines for Preparing and Publishing an Academic Research paper by Sri Venkateswara College of Engineering and Technology (Autonomous), Chittoor on 16.06.2020
- 14) Online quiz program on Automobile engineering by Aishwarya Polytechnic College on 15.06.2020
- 15) FDP on Advancement in the field of Mechanical Engineering by Department of Mechanical Engineering, Navodaya Institute of Technology, Raichur, Karnataka on 23.06.2020 to 27.06.2020
- 16) Webinar on Development of Low-Cost Solar Air Collectors by FXEC on 22.06.2020
- 17) Webinar on Adventures of a Particle Physicist by FXEC on 20.06.2020
- 18) National Level Technical Quiz On Engineering Mechanics Conducted By Department Of Mechanical Engineering, Rgmcet, Nandyal-518 501 On 20.06.2020
- 19) A National Level Technical Quiz on "ADDITIVE MANUFACTURING TECHNOLOGY" (3D Printing) by VBIT, Hyderabad, on 21.06.2020
- 20) One-Week Online International FDP on "RESEARCH CHALLENGES IN MECHANICAL ENGINEERING by Sri Venkateswara College of Engineering and Technology (Autonomous), Chittoor, Andhra Pradesh on 22.06.2020 to 27.06.2020
- 21) Webinar on e mechanics by Department of CIVIL & MECHANICAL Engineering NRI Institute of Technology :: Guntur on 22.06.2020
- 22) National level online E-Quiz on Design of Machine Elements by VVIT Mysuru on 26.06.2020
- 23) Technical webinar topic " Ultrafine grained materials: Old material with futuristic properties" is organized by Department of Mechanical Engineering, Francis Xavier Engineering College (An Autonomous Institution), Tirunelveli, Tamil Nadu, India on 04<sup>th</sup> July 2020 at 11.00 AM to 12.00 PM
- 24) AICTE Sponsored Online STTP on "Recent Trends in Hybrid and Electric Vehicle Technologies (RTHEVT '2020)" by Department of Mechanical Engineering, MaharajVijayaramGajapathi Raj College Of Engineering (A), Chintalavalsa, Vizianagaram, Andhra Pradesh, India-535005 6-11 July,2020

- 25) Webinar on " Invention to Patent - Awareness &Strategies"byDepartment of Mechanical Engineering. St.Joseph's Institute of Technology, OMR, Chennai - 600119Date - 2nd July 2020 / Time - 11.00 AM to 12.10 PM.
- 26) Webinar on "Adsorption cooling Technologies" 01 July 2020 at 11:00 Am, Organized by Gopalan College of Engineering and Management
- 27) FDP on "ADVANCEMENTS IN MECHANICAL ENGINEERING" from 04-07-2020 to 10-07-2020, Time: (10:30 AM to 11:30 AM). By Department of Mechanical Engineering of Gates Institute of Technology

**Mr. Gokulnath R (Assistant Professor, ME) attended the following programmes:**

- 1) Online quiz programme in 'Basics of Mechanism' organised by Department Of Mechanical Engineering, Mount Zion College Of Engineering And Technology, Pudukkottai, Tamil Nadu on 03-06-2020.
- 2) National level online quiz on 'Cyber security', organised by Sanjivani College of Engineering, Kopargaon, on 03-06-2020.
- 3) Webinar on 'Industrial relevance of Mechanical Engineering', organised by ME Dept, VJEC Chemperi on 03-06-2020.
- 4) FDP in 'Outcome Based Education Software', organised by vmedulife Software Services on 04-06-2020.
- 5) Webinar on "Opportunities in aerospace Industries' by ME Dept, VJEC Chemperi on 11-06-2020.
- 6) FDP on "Recent Advances in Mechanical Engineering" organized by Department of Mechanical Engineering, Shri G.S Institute of Technology and Science, Indore from 08-06-2020 to 13-06-2020.
- 7) Webinar on Industry 4.0 - Digital Manufacturing organised by SMK Fomra Institute of Technology, Chennai on 14-06-2020.
- 8) Webinar on "3D Printing & Medical Applications" organised by Department of Mechanical Engineering , Viswajyothi College of Engineering & Technology, Vazhakulam on 15-06-2020.
- 9) National Level Online Quiz on Engineering Graphics organised by Department of Mechanical Engineering, Aurora's Technological and Research Institute on 16-06-2020.
- 10) Webinar on " Reserch areas in Mechanical Engineering " organised by Sri Venkadeswara College of Engineering and Technology, Chittoor from 16-06-2020 to 18-06-2020
- 11) Webinar on 'How To Write A Technical Paper' organised by IEEE SB VJEC on 20-06-2020.
- 12) Webinar on 'An Insight into Piping Construction in Petrochemical Industry' organised by Department of Mechanical Engineering, Francis Xavier Engineering College (Autonomous) Tirunelveli on 29-06-2020.

13) Webinar on 'Ultrafine grained materials: Old material with futuristic properties' organised by Department of Mechanical Engineering, Francis Xavier Engineering College (Autonomous) Tirunelveli on 04-07-2020.

14) Webinar on 'Future Approach of Aerospace Vehicle Design' organised by Department of Mechanical Engineering, Francis Xavier Engineering College (Autonomous) Tirunelveli on 06-07-2020.

15) Webinar on 'Funding Projects, Consultancies and Book writing' organised by Department of Electronics and Communication Engineering of Vimal Jyothi Engineering College, Kannur on 08-07-2020.

16) Online technical talk on Online teaching Methodologies organised by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Kannur on 17-07-2020.

17) Webinar on 'Protect Your Cyber Space' organised by IEEE, Vimal Jyothi Engineering College, Kannur on 31-07-2020.

**Mr. Jerin Saji (Assistant professor, ME) attended the following programmes:**

1) FDP in 'Outcome Based Education Software' organised by vmedulife Software Services on 04-06-2020.

2) 5-Day Extensive Training on "Mathematical Modelling and Analysis using Matlab and Simulink." organized by Themodynedutech from 08-06-2020 to 12-06-2020.

3) 1-day Workshop on "Computational Modelling using Ansys Fluent" organized by Themodynedutech on 09-06-2020.

4) 10-Day Extensive Training on "CFD" organized by Themodynedutech from 29-06-2020 to 10-07-2020.

5) Online Quiz on "Design of Machine Elements and Dynamics of Machinery" conducted by Department Of Mechanical Engineering, Sri Ranganathar Institute Of Polytechnic College, Coimbatore on 09-07-2020.

6) National level E-quiz on the "Metal Casting" , organized by Department of Mechanical Engineering, VVCE, Mysuru from 11-07-2020 to 14-07-2020

7) Online Quiz Competition in association with ISTE, AMES and SAE collegiate club conducted by mechanical department of Jyothi Engineering College, Thrissur , from 07-07-2020 to 28-07-2020.

**Mr. Arjun Jayaprakash (Assistant Professor, ME) attended the following programmes:**

1) Two week FDP Program on "Nanocomposites and Nanomaterials and its Characterization" organized by ME Department, VJEC Chemperi from 08-06-2020 to 22-06-2020.

2) Webinar on 'Industrial relevance of Mechanical Engineering' organised by ME Dept, VJEC Chemperi on 03-06-2020.

**Mr. Mejo M Francis (Assistant Professor, ME) attended the following programme:**

Two Week Faculty Development Programme On "Nanocomposites and Nanomaterials & it's Characterization" organised by Department Of Mechanical Engineering, Vimal Jyothi Engg College from 08-06-2020 to 20-06-2020

**Mr. Appu Kurian (Assistant Professor, ME) attended the following programme:**

1. A 3 WEEKS FDP on 'MATLAB In Interdisciplinary Engineering Approach', organised by the Department of Mechanical Engineering, VJEC from 14-12-2020 to 02-01-2021.

2. Webinar on "Opportunities in aerospace Industries' by ME Dept, VJEC Chemperi on 11-06-2020

**Mr. Aji Augustine (Assistant Professor, ME) attended the following programmes:**

1) Online FDP on 'Advancement in the field of mechanical Engineering' by Navodaya Institute of Technology Karnataka from 23-06-2020 to 27-06-2020.

2) Webinar on 'scanning electron microscopy and x-ray analysis' by Jyothi Engineering College on 20-06-2020.

3) National Level Technical Quiz of 'FEM' by Sri Venkateswara College of Engineering and Technology (Autonomous), Chittoor on 28-06-2020.

4) Online FDP on Research Challenges in mechanical Engineering by Sri Venkateswara College of Engineering and Technology (Autonomous), Chittoor from 22-06-2020 to 27-06-2020.

5) Webinar on "Adventures Of Particle Physicists" by Francis Xavier Engineering college Tirunelveli on 20-06-2020.

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

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. Raison 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.

**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. Shaji George (AP, ME) attended the following programme:**

FDP on "IoT based Autonomous Robot Design" sponsored by KTU and organised by Department of Electronics and instrumentation engineering, Vimal Jyothi Engineering college, Chemperi from 28-04-2021 to 30-04-2021.

**Mr. Midhun Mukundan M K (AP, ME) attended the following programme:**

Six days online STTP Phase - II on “Vibration Analysis and Measurements” organized by the Department of Mechanical Engineering of Misrimal Navajee Munoth Jain Engineering College, from 03.05.2021 to 08.05.2021.

**Mr. Sivaprasad P V (AP, ME) attended the following programme:**

Five days online Faculty Development Program on PYTHON FOR ENGINEERS Sponsored by IETE, organized by Electronics and Communication Engineering department, Vimal Jyothi Engineering College, Kannur, Kerala from 26-04-2021 to 30-04-2021.

**Mr. Dilin Dinesh (AP, ME) attended the following programme:**

Five days online Faculty Development Program on PYTHON FOR ENGINEERS Sponsored by IETE, organized by Electronics and Communication Engineering department, Vimal Jyothi Engineering College, Kannur, Kerala from 26-04-2021 to 30-04-2021.

**DEPARTMENTAL ACHIEVEMENTS:**

1. The Competent Authority in National Board of Accreditation has decided to approve the accreditation status of the Mechanical Engineering program from the Academic Year 2020-2021 to 2022-2023 i.e. up to 30-06-2023.
2. Vimal Jyothi has contributed 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.
3. 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.
4. The Department under the guidance of Dr. T D John (Professor, ME and Dean Research, VJEC) plan to fabricate necessary machinery for manufacturing rubber gloves, using the UBA fund of 1 lakh and we look for additional support from Panchayath or Kudumbasree units. The machinery after completion will be donated to Eruvessi village and this manufacturing unit can bring some employment opportunities for women in the Eruvessi village. Certificate on training attended No: RTI/E-TRG/1087
5. Dr. Sreekanth M P (Assistant Professor, ME) reviewed a paper for Journal of Engineering Manufacture (SAGE) and submitted the score on 23 November 2020.
6. FDP Proposal by Dr. Sridharan P (Associate Profesor, ME) "Emergence of Cognitive Manufacturing and Industry 4.0 ", is selected in KTU for Funding.

**FACULTY ACHIEVEMENTS:**

1. Dr. T D John (Professor, ME and Dean research VJEC) conducted a webinar on " Cycle Tempo modeling and analysis of bio-char production systems" on 15-07-2020 with expert Dr. Vasanth Parthasarathi (Post Doc, TU Berlin) and audience as S6 & S4 students interested in project of Carbon Neutral Meenangadi.

2. Dr. Sreekanth M P (Assistant Professor, ME) presented a paper entitled “Hand anthropometric measurements of south Indian male population collected using tracer method and its correlation analysis with height and shirt size”, in the “International Conference on Technology Convergence in Engineering, Energy, & Sustainability (ICTCEES – 2020)” organized by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur through online platform, during 18th and 19th July 2020.
3. Dr. Sreekanth M P (Assistant Professor, ME) completed the review of a paper for Emerald Rapid Prototyping Journal and submitted the score in June 2020.
4. Dr. P.Sridharan (Associate Professor, ME, VJEC) was a resource person for Online FDP on ‘Mechatronics Engineering for Industry 4.0 Era’ organised by Department of Mechatronics Engineering of K S Rangaswamy College of Technology, Tamil Nadu and MHRD Institution’s Innovation council on 09-06-2020.
5. Mr. Ryne P M, Associate Professor, Dept. of ME, got admission to PhD programme under KTU.
6. 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
7. 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.
8. 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.
9. Dr T D John (Professor & Dean Research), presented a session in the KTU webinar on "**Carbon Neutral Kerala :An opportunity for socially relevant academic interventions**" on 19-12-2020
10. Dr. Christopher Ezhil Singh was a resource person for the webinar on the topic “Nanomaterials in Mechanical Engineering”, organised by Wollo University, Ethiopia on 06-11-2020.
11. Dr. Sreekanth M P (Assistant Professor, ME) reviewed a paper for Journal of Engineering Manufacture (SAGE) and submitted the score on 04-12-2020.
12. Dr. Sreekanth M P (Assistant Professor, ME) reviewed papers for ‘First International Conference on Frontiers in engineering science and technology’ held at Yenepoya Institute of Technology, Moodbidri, Mangalore.
13. Mr. Aji Augustine (AP, ME), Mr. Jerin Saji (AP, ME), Mr. Alex George (AP, ME) and Mr. Gokulnath R (AP, ME) passed the examination of Module 1 - Orientation towards Technical

Education and Curriculum Aspects", as a part of the training conducted by National Institute of Technical Teachers Training and Research.

14. Mr. Arun B S (Assistant Professor, Department of Mechanical Engineering, VJEC) defended his Ph.D thesis on 09.04.2021. Thesis Title: "Performance Investigation of Combined Low Temperature Regeneration of Liquid Desiccant and Evaporative Cooling by Ultrasonic Atomization"

### **STUDENTS ACHIEVEMENTS:**

1. Mr. Joel Mathew- S2 ME, Ajnas A K – S2 ME and Mr. Ben Johns Philip-S2 ME are the winners of the idea competition organized by the Innovation and Entrepreneurship Development Cell of VJEC in association with Kerala Startup Mission, Unnath Bharath Abhiyan, MHRD Institute Innovation Council, United Nations Academic impact.

2. 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.

3. A team of ME students started a brand of clothing 'Urbanploy'. Mr. Abdul Majeed. (S7 ME-B), Mr. Nikul Mohan (S7 ME-A), Mr. Sanjay C P (S7 ME-A), Mr. Avinash Sudheer (S7 ME-A) are the students from the Department included in the team.

4. Mr. Pranav M Sreejith, student of 2018-22 ME batch, achieved the record of Asia's largest English poetry collection 'Spectra of Phobia' in Asia book of Records.

5. As a part of KTU webinar on "**Carbon Neutral Kerala :An opportunity for socially relevant academic interventions**" on 19-12-2020, two student teams from S7 ME (2017-21 batch) presented their paper. Mr. Abhiraj Ashok, Mr. Akash Gopinath, Mr. Aswin Krishna and Mr. Randhir Dinesh, presented paper on 'Analysis of Gasifier for Biomass conversion using Cycle tempo software'.

Mr. Gautham K, Ms. Pallavi Chandran and Mr. Srihari Muraleedaran presented paper on 'Energy, Exergy, Efficiency analysis of slow and fast pyrolyzer based biochar production for different biomass using Cycle tempo software'.

6. A virtual event 'Dr. Drive' was conducted by the SAE club under Department of Mechanical Engineering college, VJEC, in the month of May 2021. The contest included the making and presentation of a ten minutes video of the contestants' personal vehicles, explaining everything they know and explaining why it was the best choice for them.

The winners of the contest are as follows.

1<sup>st</sup> Position – Ms. Arya Santhosh (S6 ME)

2<sup>nd</sup> Position – Mr. Georgekutty Puthusseril (S2 ME)

3<sup>rd</sup> Position – Mr. Stalin Santo (S4 ME)

7. Mr. Aviradh R N of S2 ME secured second prize in Slogan writing competition, conducted as part of online arts fest of VJEC.



8. 2. Toppers of S7 ME university examination are Ms. Pallavi Chandran (SGPA 9.41), Mr. Diljith A (SGPA 8.75), Mr. Akash Gopinath Nambiar (SGPA 8.57), Mr. Alen Joseph (SGPA 8.59), Mr. K Sibin Sivan (SGPA 8.43), Mr. Amithkanth P V (SGPA 8.41)

8. Mr. Pranav M Sreejith of 2018-22 batch published a book 'The Murmurs of the night'

### **PROFESSIONAL BODY ACTIVITIES:**

A virtual event 'Dr. Drive' was conducted by the SAE club under Department of Mechanical Engineering college, VJEC, in the month of May 2021. The contest included the making and presentation of a ten minutes video of the contestants' personal vehicles, explaining everything they know and explaining why it was the best choice for them.

### **PLACEMENTS:**

1. Ms. Pallavi Chandran of S7 ME (2017-21 batch) got placed IN INFOSYS and TATA CONSULTANCY SERVICES as Assistant System Engineer Trainee.

2. Mr. Akash Raju of S8 ME, got placed in LAZIM SOFTWARE LTD, GUIDE HOUSE and FACE PREP

3. Mr. Alen Joseph of S8 ME, got placed in FEDERAL BANK

4. Mr. Adarsh Hareendran of S8 ME got placed in FINGERTIP PLUS TECHNOLOGIES and QSPIDERS

5. Mr. Amithkanth P of S8 ME got placed in QSPIDERS

6. Mr. Shibin K V of S8 ME got placed in FINGERTIP PLUS TECHNOLOGIES

ECE

ANNUAL REPORT

2020-21

## PROGRAMS CONDUCTED

- The Electronics and communication department has conducted a webinar on ‘Real Time Operating System’ for S6 students, in association with IETE Vimal Jyothi Chapter on 8-05-2020 by Mr. Rajesh M (Scientist/Engineer ‘D’ NIELIT Calicut)
- The Electronics and communication department has conducted a webinar on ‘Wireless IoT & 5G’ for S4 students, in association with IETE Vimal Jyothi Chapter on 13-05-2020 by Mr. Jubin Elayanithottathil, Research Engineer, Institute ivESK, Offenburg Uni. Germany.
- The Electronics and communication department has conducted a online workshop program on ‘Amplifier Circuit’ for S2 students, in association with IETE Vimal Jyothi Chapter on 14-05-2020 by Prof. Dinesh Babu.
- The Electronics and communication department has conducted a webinar on ‘ Funding Projects, Consultancies and Book writing’ in association with IETE Vimal Jyothi Chapter on 8-07-2020 by Dr. D P Kothari, Former VC, VIT University.
- The Electronics and communication department has conducted a webinar on ‘Programming Skill Development’ in association with IETE Vimal Jyothi Chapter from 27-07-2020 to 29-07-2020 by Mr. Rajendran Subramanian, Director of Silicon Software Technologies, Chennai.
- The Electronics and communication department has conducted a Webinar on "Softskills, Resume Writing, GD/PI" The session was handled by Mr. Shivang Mehta (MSc –Statistics, MBA-IIM Calcutta)
- The Electronics and communication department has conducted a Webinar on ‘Grow and Be a Star ‘ for S5 and S7 ECE students on 19/09/2020. The resource person for the session was Dr. Surekha S Nair ( HR – Eurofin India Pvt.Ltd).
- The Electronics and communication department has conducted a webinar on Introduction to deep learning in association with IETE Vimal Jyothi Chapter on 01/08/2020 .The resource person for the session was Resource Person: Dr. Ebenezer Daniel, Post-Doctoral Fellow City of Hope National Medical Center, California, USA.
- The Electronics and communication department has conducted a webinar on Cyber Laws for Indian Youth’ for all ECE students on 22/08/2020 . The session was handled by Mr. Mohan Raj T.P Advocate High Court of Kerala & Guest faculty at School of Legal Studies, CUSAT.
- The Electronics and Communication Department has conducted a webinar on ‘Build Your First APP with Java and KOTLIN in association with IETE Vimal jyothi Chapter on 17-10-2020 by Mr. Shijin K V Junior Android Developer, ALISONS Informatics Pvt Ltd.
- The Electronics and Communication Department has conducted a webinar on ‘Segmentation of natural images using clustering approach: Principles and applications in association with IETE Vimal Jyothi Chapter on 31-10-2020 by Mr. Jobin Francis ,Research scholar NIT Calicut.
- The Electronics and Communication Department has conducted a webinar for S5 ECE students on Career options for Electronics and Communication Engineers on 06-11-

2020 by Mr. Tomlin Mathew ,System Operations Senior Analyst Wells Fargo, Bangalore.

- The Electronics and Communication Department has conducted a webinar on Mobile network evolution ‘on 07-11-2020 by Mr. Jishnu Aravindakshan, BSNL.
- The Electronics and Communication Department has a webinar on ‘Higher Studies Opportunities in India and Abroad in association with IETE Vimal Jyothi Chapter on 21-11-2020 by Ms. Dona Joseph ,Research scholar ,SRM Chennai & Shizuoka University , Japan.
- The Electronics and Communication Department has conducted a webinar on ‘ Fueling innovation for the future in association with IEDC Vimal Jyothi Chapter on 12-02-2021 by Mr. Arun J S Nodal officer Catalyst Mar Baselios IEDC.
- Vimal Jyothi Engineering College in association with internal quality assurance team conducted one day workshop on AICTE Exams Reforms Policy on 4th March 2021.

#### DEPARTMENTAL EVENTS

- The PTA meeting for S2 ECE 2019-2023 BATCH was held on 8th April 2020 11:30 AM by using Google meet online platform. Due to Corona Lockdown circumstance, the only way for conducting PTA meeting through online.
- The PTA meeting for S4 ECE 2018-2022 BATCH was held on 8th April 2020 by using the online platform Google meet at 3:00 PM.
- The PTA meeting for S6 ECE 2019-2021 BATCH was held on 8th April 2020 by using Google meet online platform.
- The PTA meeting for S8 ECE 2019-2020 BATCH was held on 8th April 2020 10:30 AM by using Google meet online platform.
- With the pandemic prevailing the department PTA meeting for All ECE Batch was held on 23rd July 2020 10.00 AM by using Google meet online platform.
- Boot camp for 2020-2024 ECE batch (first year) was conducted from 05/10/2020 to 06/11/2020.
- With the pandemic prevailing the department year wise PTA meeting held between 21st October and 23rd October using Google meet online platform.
- ECE department conducted Christmas celebration “AGAPE-2020” through online platform Microsoft Teams.
- ECE department conducted Republic Day Celebration “GANATHANTHRA” through online platform Microsoft Teams.
- With the pandemic prevailing the department first year PTA meeting held on 22nd February 2021 using Google meet online platform.

## FACULTY ACHIEVEMENTS

- Dr. Roshini T V, Conducted ASAP Online classes on “Digital to Analog converters” for fourth semester students in association with APJ Abdul kalam Technological University.
- Mr. Manoj KC attended 10 days online FDP programme starting from 18-05-20 on “artificial intelligence and machine learning using python” organized by Finland Labs association with National Social Summit,IIT Roorkee
- Mr. Manoj KC attended 2 days online FDP programme on “Fuzzy logic and neural network approach for engineering solutions” organized by Journal of advanced Engineering Research and powered by hexacube India on 29th and 30th april.
- Ms. Sudharsana Vijayan attended 2 days online FDP programme on “Fuzzy logic and neural network approach for engineering solutions” organized by Journal of advanced Engineering Research and powered by hexacube India on 1st and 2nd May
- Ms. Lekshmy S attended 2 days online FDP programme on “Fuzzy logic and neural network approach for engineering solutions” organized by Journal of advanced Engineering Research and powered by hexacube India on 1st and 2nd May
- Mr. Manoj K C attended IEEE Live webinar title on “How to publish a high quality Technical journal Paper” on 21st April 2020
- Ms. Amrutha Maria Mathew attended a webinar on “Basics of wind energy conversion” by Prof. Sathyajith Mathew,Dept of Engineering Science,Norway on 8th may. Organized by Institute of engineers and IEEE branch
- Ms.Amrutha Maria Mathew attended a webinar on “Global Trends in EV Power Train by ” by Mr. Tijo Thomas on 14th may. Organized by Institute of engineers and IEEE branch
- Ms.Amrutha Maria Mathew attended a webinar on “Electrical Vehicle Charging System ” by Dr. Ritesh Kumar Keshri, Assistant professor, VNIT Nagpur on 11th may. Organized by IEEE PES SBC saints gits college of Engg.
- Ms. Amrutha Maria Mathew attended a webinar on “Analytical modeling of modular multilevel converters and circulating current control ” by Dr. Abhijith Kshirsagar, assistant professor, IIT Dharwad on 10th may. Organized by IEEE IA/IE/PELS It Chapter, Kerala.
- Dr. Jayesh George, “Automated breast cancer detection using hybrid extreme learning machine classifier” was published in Journal of Journal of Ambient Intelligence and Humanized Computing (Springer).
- Dr.Anto Sahaya Dhas attended 5 days industry focused program on "The role of engineers in making India a five trillion dollar economy" from 22nd June to 26 June 2020.
- Mrs. Bindhu Sebastian attended one week online FDP program starting from 1-07-20 on “Essentials for Blended Learning ” organized by Department of Information Technology, Dr. M.G R Educational and Research Institute, Chennai.
- All staff members attended the webinar on Funding projects, Consultancies, and book writing by Dr. Kothari former VC, VIT organized by the department.

- Dr.Anto Sahaya Dhas attended One day Faculty focus program on "COVID-19 impact on industries in India" on 18th June 2020.
- Mrs. Ann Mathew attended one day webinar “Internet of Things with Data Science” on 29th July 2020 organized by Lourdes Matha College of Science & Technology.
- Dr.Anto Sahaya Dhas attended One day Faculty focus program on "How to be an excellent online tutor" on 21st May 2020.
- Dr. Jayesh George, “Detection and classification of breast cancer from digital Mammograms using hybrid extreme learning machine classifier” was published in WILEY Publication (SCIE journal).
- Dr.Anto Sahaya Dhas attended one week AICTE sponsored FDP on “Introduction to Electric Vehicles: Challenges and opportunities in future world – Case studies from 3rd to 8th August 2020.
- Dr.Anto Sahaya Dhas attended One week AICTE sponsored FDP on “Grid integration techniques for Electric Vehicle: Challenges, opportunities, G2V and V2G applications” from 14th to 19<sup>th</sup> September 2020
- Dr.Roshini T.V attended 5 Days FDP On “Artificial Intelligence & Machine Learning Using Python” (08th-12th June 2020), organized by Finland Labs
- Dr.Roshini T.V attended 5 Days FDP On Digital Circuit Design Using Verilog HDL” organised by Department of Electronics & Communication Engineering, from 07-09-2020 to 12-09-2020.
- Dr. Jayesh George M attended in AICTE Sponsored Short Term Training Programme(STTP) on “Trends and Technologies in Antenna Design and its Research Scopes”,organised by Department of Electronics, Toc H Institute of Science & Technology,Ernakulam from 10-08-2020 to 16-08-2020
- Dr.Roshini T.V attended webinar “Introduction to Artificial Intelligence & Machine Learning” on 22nd August 2020 organized by M- Dasan Institute Of Technology
- Mr.Jithin James attended ATAL academy Online fdp on "Artificial Intelligence" from 14/9/2020 to 18/09/2020 organized by Govt.Women's polytechnic college,Thrissur.
- Ms. Grace John M, attended 5 Days National level FDP On Biomaterials, Biodevices & Medical Image processes conducted by Department of Mechanical Engineering & Department of Applied Electronics & Instrumentation Engineering in association with BIRDS, Rajagiri School of Engineering & Technology during August 10-14 2020
- Ms.Bindu Sebastian attended webinar on “Research issue in image processing’ conducted by Computational Intelligence research foundation Chennai on 03/09/2020
- Ms Sudharsana Vijayan attended webinar “Selection and Design Consideration for Control Valves” on 19th August 2020 organized by ISA SOUTH INDIA section.
- Ms.Bindu Sebastian has participated in the online faculty development program on ‘Digital Circuit Design Using Verilog HDL’ Sponsored by Technical Education Quality Improvement Programme-Phase 2 organized by Department of Electronics and communication Engineering Thangal Kunju Musaliar College of Engineering Kollam from 07/09/2020 TO 12/09/2020

- Ms. Grace John M has attended one day webinar on Virtual Labs organized by Department of Mechanical Engineering Jyothy Engineering College Cheruthuruthy Thrissur in association with SAE India Collegiate club & AMES ECC
- Mr. Jithin James attended AICTE sponsored online STTP on "Internet of things for healthcare" from 24/08/2020 to 29/08/2020 organized by Dr. Mahalinga college of engineering and technology, Pollachi.
- Mr. Manoj K C Participated in the three days webinar series from 13-Aug-2020 to 15-Aug-2020 on Scope of Electronics Engineers in Post Pandemic Situation Organized by department of Electronics and Communication Engineering, MCET Pathanamthitta in association with ESSCI, Sahasra Electronics Pvt Ltd, Soft Launch & INKER Robotics
- Mr. Manoj K C attended Five day online FDP on Mathematics For Data Science organized by Department of Basic Science and Humanities Mutoot Institute of Technology and Science from 10 th to 14 th August 2020
- Mrs. Bindu Sebastian Participated in the three days webinar series from 13-Aug-2020 to 15-Aug 2020 on Scope of Electronics Engineers in Post Pandemic Situation Organized by department of Electronics and Communication Engineering, MCET Pathanamthitta in association with ESSCI, Sahasra Electronics Pvt Ltd, Soft Launch & INKER Robotics
- Mrs. Bindu Sebastian has participated in the webinar entitled & "INTRODUCTION TO MEMS" organised by Department of Electronics and Communication Engineering, Musaliar College of Engineering, Chirayinkeezhu, on 21st September 2020.
- Mr. Manoj K C, Presented and published a paper titled "Design and simulation of 3.5 GHz hybrid photonic antenna system for 5G applications" at International Conference on Microelectronics, Signals and Systems 2019 and published by AIP Publishing: AIP Conference Proceedings 2222, 030021 (2020); <https://doi.org/10.1063/5.0004642> in collaboration with Department of Electronics Engineering, Anna University, MIT Campus, Chennai, India
- Mr. Vinod J Thomas & Dr. Anto Sahaya Dhas has presented a paper on recent trends in epileptic seizure detection using EEG Signal: A review in an international conference by Springer held at RVS Technical campus Coimbatore. Date: 19th and 20th November 2020.
- Dr. Anto Sahaya Dhas has attended one week AICTE sponsored STTP on Machine Learning and IoT Technologies for Environmental Issues" from 26th to 31st October 2020
- Dr. Roshini T V has participated AICTE sponsored six days short term training programme on Data analytic in Biomedical engineering organized by Department of Biomedical Engineering Faculty of Engineering Karpagam academy of higher education from 23rd to 28 November 2020.
- Ms. Bindu Sebastian has participated in the national webinar on Industry needs from academia organized by CSI student chapter, JIS College of Engineering West Bengal in association with Computer society of India Kolkata Chapter on 20th October 2020

- Ms.Shimna P K has participated AICTE sponsored six days short term training programme on Data analytic in Biomedical engineering organized by Department of Biomedical Engineering Faculty of Engineering Karpagam academy of higher education from 23rd to 28 Novemeber 2020.
- Ms.Grace John M has participated a three days faculty development programme on Role of communication engineering in 5G technologies organized by the department of Electronics and Communication Engineering St.Martin's Engineering College Dhullapally, Secunderabad
- Ms.Lekshmy S has participated AICTE sponsored six days short term training programme on Data analytic in Biomedical engineering organized by Department of Biomedical Engineering Faculty of Engineering Karpagam academy of higher education from 23rd to 28 Novemeber 2020.
- Dr. Jayesh George, "Early detection of breast malignancy using wavelet features and optimized classifier" was published in WILEY Publication (Indexed in SCIE, SCOPUS, UGC-CARE List).
- Mr. Manoj K C & Ms. Sudharsana Vijayan attended AICTE Sponsored 6 Days STTP On "Data Analytics in Biomedical Engineering" (14th-19th December 2020), organized by Department of Biomedical Engineering, Karpagam Academy of Higher Education, Coimbatore.
- Mr. Manoj K C, Mr. Binil Kumar & Ms. Sudharsana Vijayan attended AICTE Sponsored 5 Days FDP On "Internet Of Things" (11th-15th January 2021), organized by LBS College of Engineering, Kasaragod.
- Mr. Manoj K C , Ms. Shimna P K & Ms. Sudharsana Vijayan attended TEQIP II Sponsored 6 Days FDP On "Phython Programming for Computer Vision and Data Science" (28thDecember 2020 to 2nd January 2021), organized by Department of Electronics & Communication Engineering, TKM College, Kollam.
- Ms. Sudharsana Vijayan attended AICTE Sponsored 5 Days FDP On "Artificial Intelligence & Robotics" (18th-22nd January 2021), organized by Department of Electronics & Communication Engineering, Tripura University.
- Ms. Bindu Sebastian attended 3 Days Workshop On "Antenna Design & Its Application " (17th-29th December 2020), organized by Department of Electronics & Communication Engineering, MEPCO Engineering College, Sivakasi.
- Ms. Bindu Sebastian attended AICTE Sponsored 6 Days STTP On "IoT & Data Science " (28thDecember 2020 to 2nd January 2021), organized by Department of Electronics & Communication Engineering, St. Joseph's College of Engineering Technology, Palai.
- Dr. Jayesh George M & Mr. Adharsh KS were attended the AICTE sponsored Six Days Short Term Training Program on "IoT and Data Science" conducted by Department of Electronics and Communication Engineering, St. Joseph's College of Engineering and Technology from 28/12/2020 to 02/01/2021.
- Dr. Jayesh George M, Mr. Adharsh K S, & Ms. Ann Mathew were attended AICTE



Training And Learning (ATAL) Academy Online FACULTY DEVELOPMENT PROGRAMME on "Wearable Devices" from 2021-1-11 to 2021-1-15 at Saintgits College of Engineering.

- Ms. Grace John attended AICTE Sponsored 5 Days STTP On “Application of Artificial intelligence Technique in Overcoming the Challenges of Healthcare Industry” (4th-9th January 2021), organized by Department of Electronics & Communication Engineering, Knowledge Institute of Technology, Salem, Tamilnadu.
- Ms. Ann Mathew attended AICTE Sponsored 5 Days FDP On “Electromagnetics and Antenna Technology” (1st -5th December 2020), organized by LBS Institute of Technology for womens.
- Dr. Anto sahaya Dhas attended a three days webinar on "Emerging technologies, trends and challenges of wireless body area networks" organised by IEEE Madras section from 21st to 23rd December 2020.
- Ms. Bindu Sebastian Participated in the webinar “Demystifying 5G & It's Impacts” on 5th December 2020 organized by Department of Electronics & Communication Engineering, St. Thomas College of Engineering Technology, Kozhuvalloor.
- Ms. Reema Mathew has successfully defended her Phd thesis under the guidance of Professor Dr. Babu Anto Department of IT Kannur University.
- Dr. Reema Mathew, published a paper titled “Script identification: A Review”, International Journal of Current Engineering and Scientific Research, VOLUME-8, ISSUE-1, 2021, ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, pp.92-99
- Dr. Reema Mathew published a paper titled “Identification of Plant Disease: A Review”, International Journal Of Current Engineering And Scientific Research, VOLUME-8, ISSUE-1, 2021, ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, pp.107-114.
- Dr.Anto Sahaya Dhas attended awareness webinar on outcome-based education and accreditation conducted jointly by APJ Abdul Kalam Technological University and National Board of Accreditation on 9th March 2021
- Dr.Roshini T V attended awareness webinar on outcome-based education and accreditation conducted jointly by APJ Abdul Kalam Technological University and National Board of Accreditation on 9th March 2021
- Mr. Vinod J Thomas and Ms. Bindu Sebastian has participated in the AICTE ATAL Academy sponsored Online FDP on “Artificial Intelligence” from 22nd February 2021 to 26th February 2021, conducted at Model Engineering College Ernakulam.
- Dr. Reema Mathew attended AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2021-2-1 to 2021-2-5 at Knowledge Institute of Technology.
- Dr. Reema Mathew, Mr. Vinod J Thomas, Ms. Lekshmi S, Ms. Anusha Chacko and Mr. Jithin James Participated in the CSI sponsored FDP on “Machine learning with its mathematical foundations” from 2nd March to 6th March, organized by the department of CSE, Vimal Jyothi Engineering college Chemperi.
- Mr. Vinod J Thomas Completed two days online technical seminar on “Emerging technological trends and future challenges in telemedicine” from 19th February 2021

to 20th February 2021, organized by MEPCO SCHLENK Engineering college (Autonomous) Sivakasi

- Mr. Manoj K C, Ms. Shimna P K and Ms. Anusha Chacko Participated in an online 3 Day workshop on Electronic Circuit Simulation using eSim from 11 February to 13 February 2021 organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MoE, Govt. of India.
- Ms. Grace John M, Mr. Jithin James and Ms. Sudarshana Vijayan Attended Online 3 Day workshop on "Scilab" Organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MoE, Govt. of India from 04.03.2021 to 06.03.2021.
- Ms. Sudarshana Vijayan successfully completed National Initiatives for Technical Teacher Training under AICTE and ministry of education Govt of India approved ATAL 8 module course (100 days)
- All ECE faculty members attended One day workshop on 'AICTE Exam reforms policy' on March 4th 2021 conducted by internal quality assurance cell of Vimal Jyothi Engineering College, Chemperi.

#### STUDENT ACHIEVEMENTS:

- Amrutha Nanukuttan, Athira E V, Namitha V K, and Ragendu N were published a paper on "IOT Based Surveillance System Using Thermal Camera" in IJCESR.
- Abin Mathew Sali of S5 ECE developed an app named "S5 ECE" to support online class.
- Following students got NPTEL certification
- Megha Mahesh, Kavya Prasad, Ridhusha M, Megha Mahesh, Preethika B Dev, Arya T P, Deepthi Joseph, Meghna Sudharman, Fathimathul Husna Moideen, Sandra Venugopalan, Shamila C P.
- Amrutha Nanukuttan of 2016-20 ECE batch got placed in INTEL
- Rohith Sreenivasan, Sanjay Prakash, Vyshakh Gireesh of S8 ECE and Ranjitha C V M.Tech got placed in TCS.
- Hrishika C of S8 ECE got placed in Technologies Global Pvt. Ltd.
- Preethika B Dev of S8 ECE got placed in QuEST Global.
- Abhirami Venugopal and Fathimathul Husna Moideen of S8 ECE got placed in Lazim Software Solutions.

**VIMAL JYOTHI ENGINEERING  
COLLEGE, CHEMPERI  
CIVIL ENGINEERING DEPARTMENT**

**Annual report  
2020-2021**

## **Programmes conducted:**

1. Mr. Ashwin Joy, Mrs. Rinnet Franci and Mr. Logi N Bobby organised a webinar on "Wastewater Treatment by advanced Oxidation Processes"
2. Mrs. Sigi Thomas, Dr. Shika S and Mr. Ashwin Joy organised a webinar on Recycling of Wastewater-An Overview
3. Ms. Anitta Jose , Ms. Vinaya and Ms. Maqsooda JHS organised a 3 days' Workshop (Online) on AUTOCAD in association with BIMLABS
4. Mrs. Anuragi P and Ms. Margaret Abraham organised a webinar on Pseudo-scientific Practices in Civil Engineering on 8<sup>th</sup> august 2020
5. Ms. Anitta Jose, Ms. Indu T & Ms. Aiswarya M has organised one day webinar on Academic Projects with BIM in association with BIMLABS for final year students
6. An online farewell was held on 30th July 2020 at 5 pm through Google Meet owing to the covid pandemic restrictions.
7. A training program was organised for the 7th semester civil engineering students on ETABS in association with InterCAD systems private limited. Total duration of the training was 12 hours (2 hours per day from 16/11/2020 to 21/11/2020)
8. The 30th of November 2020 was marked as a memorable day in the life of every fresher at VJEC through Jyothirgamaya 2020 held online through Zoom platform. The Archbishop of Thalassery, Mar George Njaralakkattu graced the occasion as the Chief Guest. The Chairman of the institute, Fr. James Chellankot initially presided over the function and grandly welcomed all the freshers. Our Principal, Dr. Benny Joseph did addressed general queries of the freshers and their parents.
9. Department has organised farewell to Dr. Shikha S through Google Meet platform.
10. Mr. Ashwin Joy and Ms. Maqsooda JHS organized a live webinar on career orientation for third year and final year civil engineering students on 30<sup>th</sup> march 2021
11. Gate2021 coaching for third year and fourth year has started under the co-ordination of Mr. Rojin P in July
12. Department of civil engineering bid a memorable farewell to Mr. Rudolf Mathews

## Department Achievements

1. Department of Civil Engineering of Vimal Jyothi Engineering College has undertaken the proposed Slaughter House building at Thiruvalla Municipality, Pathanamthitta Dist.
2. VJEC, Kannur ties up with National Highway Authority of India (NHAI) intending to work together with mutual cooperation for the dissemination of respective expertise in civil/ highway field through road infrastructure development. This MoU shall come into effect for all its intent and purposes from the immediate effect and shall remain valid for a period of 5 years from the date of signing unless terminated earlier by mutual consent by either party by giving 60 days notice in writing to the other party.
3. Department of Civil engineering has joined hands with WRD and has expressed the willingness to take a role in the abatement of Kuppam River, Taliparambu extending around 9.1 stretches. The objective of the study is to meet the water quality standards of Kuppam river by identifying the pollution sources, inadequacy in existing sanitation system and preparation of action plan to prevent it. The Hon'ble National Green Tribunal (NGT) in OA No 673/2018 dated 20.09.2018 ordered for rejuvenation of the 21 rivers identified as "critically polluted" rivers in the State. With regard to this, Department of Civil Engineering had taken up the rejuvenation of Kuppam River. The DPR (Detailed Project Report) as prepared by the team headed by Mr. Ashwin Joy, Ms. Athira Rajendran and Ms. Vinaya SM had officially submitted the report to IDRIB, Government of Kerala
4. In response to the request letter from the Assistant Engineer, Aralam Grama panchayath (No: D1/GP/231/2019-20; Dated 26/02/2020), Dept. of Civil Engineering, VJEC is proposing to construct a R.C Bridge at the specified location. The faculties of the department shall undertake design, Detailing and quantity estimation of the project.

## **Faculty achievements:**

1. Mr. Rojin P attended a webinar on “Digital Project Delivery & Digital Twins” jointly organized by the Department of Civil Engineering at Christ College of Engineering and Bentley Institutes on 20/06/2020.
2. Mr. Vishnu T Unni attended webinar on “Graphene- A Wonder Material” conducted by Department of Science & Humanities, Vedavyasa Institute of Technology, Karad on 15th June 2020.
3. Mr. Vishnu T Unni attended webinar on Crisis Management during Covid 19 conducted by NSS unit Ukf College of Engineering And Technology, Kollam on 11th June 2020.
4. Mr. Vishnu T Unni attended webinar on “Tall, Super Tall and Mega Tall Buildings- Structural Systems” on May 2nd conducted by ACC Cements
5. Ms. Aiswarya M attended the webinar on Bentley Institute - From structural to Geotechnical: deep foundation analysis in PLAXIS 3D from a STAAD Pro model.
6. Ms. Aiswarya M attended the webinar on Engineers Australia - Infrastructure thought leaders series: Engineering large scale Retaining Wall.
7. Ms. Aiswarya M attended the webinar on Geopier - Geopier ground improvement for Transportation sector
8. Ms. Indu T participated in an International Webinar on "Plastic Waste Sources, Production, Management and Handling in Post COVID-19 WORLD" by Panjab University Rural Centre Kauni (Sri Muktsar Sahib) on May 18, 2020
9. Ms. Vinaya joined the webinar on Low Carbon Building Materials and techniques To Optimise Carbon Emission by Mr. M. Murugu Elan Thendral, Technical In charge, ACC Limited, Coimbatore, Tamilnadu, organized by Tamilnadu College of Engineering, held on 05 June 2020.
10. Ms. Vinaya Participated in one day Webinar on Computer Applications in Structural Engineering? Organized by Department of CIVIL Engineering, NRI Institute of Technology, on 05.06.2020
11. Dr. Biju Mathew is appointed as the Dean of Examinations in addition to his regular duties. Truly a marvellous achievement.

- 12.** Two of our faculties, Mr.Rojin P and Mrs. Ankita Sebastian are provisionally selected for PhD admission under KTU. Hearty Congratulations
- 13.** Dr. Shika S is handed over the charge of Head of the Department.
- 14.** Mrs. Anitha Babu participated in a one week online FDP on "Sustainable Smart Cities" organized by Chennai Institute of Technology
- 15.** Mr. Vishnu T Unni, Mr. Rojin P, Ms. Maqsooda J H S and Ms. Vinaya S M had their active participation in three days online Short Term Training Program on "State Of The Art Practices In Transportation Engineering" organized by Department of Civil Engineering in association with Indian Society for Technical Education (ISTE) from 10 June, 2020 to 12 June, 2020
- 16.** Mr. Ashwin Joy, Mr. Sreejith K, Ms. Aiswarya M, Ms. Indu attended a five days FDP on "Emerging Trends in Infrastructure & Structural Engineering"(ETISE-2020). The FDP was organized by the Civil Engineering Department, Marri Laxman Reddy Institute of Technology & Management
- 17.** Mr. Vishnu T Unni, Ms. Anitta Jose Mr. Linjesh Sebastian, Ms. Margaret Abraham, Ms. Maqsooda J H S and Ms. Vinaya S M participated in a three Day National Level Online Faculty Development Program on "Rehabilitation and Retrofitting of Structures (R2S)" held from 04-06-2020 to 06-06-2020 organized by Department of Civil Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati.
- 18.** Ms. Vinaya S M did her successful completion of Faculty Development Program on Building Design & Bridge Analysis (BEAVA) in Staad Connect Edition
- 19.** Mr. Vishnu T Unni attended an online Workshop on Recent Advances in Science and Technology of Concrete on 2nd May 2020 Organized by Indian Institute of Technology Madras, Chennai, India.
- 20.** Ms. Maqsooda J H S attended an online quiz on World Ocean Day conducted by NSS unit of Vidya Academy of Science and Technology Technical campus Kilimanoor on 8th June 2020.
- 21.** Ms. Anitta Jose participated in online FDP on "Recent Trends in Environmental Engineering" held conducted by the Department of Civil Engineering

- 22.** Mr. Linjesh Sebastian attended 5 days FDP on "Application of Artificial Intelligence in Civil Engineering" conducted by "J.N.N College of Engineering, Bangalore" from 20.07.2020 to 24.07.2020.
- 23.** Mr. Sreejith K has attended online FDP about "Rehabilitation and Retrofitting of Structures" by SVE College.
- 24.** Mr. Sreejith K has attended 1 month Online session of promoting Innovation, Entrepreneurship, startupsetc by institution's innovation council of MHRD cell
- 25.** Mr. Sreejith K has attended Online STTP about "Modelling & Simulation - An Engineering perspective" by SCMS School of Engineering,
- 26.** Mr. Sreejith K has attended Online FDP about " Application of Artificial intelligence in Civil Engineering" by J.N.N College of engineering.
- 27.** Ms.Anitta Jose has attended Five Days Online Faculty Development Programme on "Innovation in Civil Engineering and Concrete Technology (ICECT)" from 13th July to 17th July 2020, jointly organised by The Indian Concrete Institute (ICI), SRM Institute of Science and Technology (Civil), UltraTech Cement Ltd. and The Institution of Engineers (I), Kattankulathur Local Centre.
- 28.** Ms.Hridya P has attended FDP on Artificial intelligence in civil engineering, conducted by JNN College of engineering Shivamogga,20-24 July 2020
- 29.** Ms.Hridya P has attended on state of the art practices in transportation engineering conducted by Jyothi engineering college Thrissur on 10-12 June 2020
- 30.** Mr. Rojin P has attended 5 days online Faculty Development Program on "Application of Artificial Intelligence in Civil Engineering - AAICE 2020" conducted by J.N.N College of Engineering, Shivamogga
- 31.** Mr. Logi N Bobby has attended 5 DAY FDP on Innovation in Civil Engineering and Concrete Technology (ICECT) between 13/07/2020 to 17/07/2020 organised by ICI,SRM,Ultra Tech Cement & The Institution Of Engineers Kattankulathur
- 32.** Mr. Logi N Bobby has attended 5 DAY FDP on "Application of Artificial Intelligence in Civil Engineering" between 20/07/2020 to 24/07/2020 organised by J N N college of engineering



- 33.** Mrs.Rinnet Francis has attended five days FDP on Innovation in Civil Engineering and Concrete Technology (ICECT)and also attended five days FDP on Application of Artificial Intelligence in Civil Engineering - AAICE 2020
- 34.** Ms. Aiswarya M has attended webinar on Wastewater Treatment by advanced Oxidation Processes by Vimal Jyothi Engineering College.
- 35.** Mr. Linjesh Sebastian has attended webinar on "Construction Technology in Data Driven Era-The Next Frontier" on 08.07.2020 conducted by Francis Xavier Engineering College, Tamil Nadu
- 36.** Mr. Linjesh Sebastian has attended webinar on "Design of Green Campus" on 25.07.2020 conducted by JSS Academy of Technical Education, Bangalore
- 37.** Mr. Linjesh Sebastian has attended webinar on "Demystifying Green Buildings: Edge Discovery Workshop" on 25.07.2020 conducted by JSS Academy of Technical Education, Bangalore.
- 38.** Ms.Margaret Abraham has participated in live webinar on Introduction to ground improvement technique.
- 39.** Ms.Margaret Abraham has participated in webinar on bond performance of pretensioned concrete.
- 40.** Ms.Margaret Abraham has participated in webinar on construction technology in data driven era. - Participated in webinar on role of insustry 4 technologies in business operations.
- 41.** Dr.Shika S has attended a webinar on ' Advanced wastewater treatment in the context of Covid-19'.
- 42.** Ms.Anuragi P has attended Webinar on "Introduction to ground improvement techniques" organized by Francis Xavier Engineering college, Tamil Nadu on 24/7/20202.
- 43.** Ms.Anuragi P has attended Webinar on " Waste water treatment by advanced oxidation process" organized by VJEC on 21/7//2020
- 44.** Ms.Anuragi P has attended Webinar on " Bond performance of pretensioned concretean over view" organized by Francis Xavier Engineering college, Tamil Nadu on 14/7/2020

- 45.** Ms.Hridya P has attended Webinar on Construction technology in data driven era- the next frontier, conducted by Francis xavier college of engineering, Thirunelveli on 8 thjuly 2020
- 46.** Ms.Hridya P has attended Webinar on Landslides causes and mitigation measures conducted by Amal Jyothi college of engineering Kottayam on 9th July 2020
- 47.** Ms.Hridya P has attended Webinar on Relevance and avenues in civil engineering conducted by Amal Jyothi college of engineering Kottayam on 10th July 2020
- 48.** Ms.Hridya P has attended Webinar on Role of industry technologies in Business operations on 4th July 2020 - Webinar on Bond performance of pretensioned concrete conducted by Francis
- 49.** Ms.Anitta Jose has attended a webinar on "role of civil engineers for sustainable development" from 14th to 16th July 2020, organised by Mar Baselios Institute Of Technology And Science [MBITS]
- 50.** Mr.Saneesh K has attended Webinar on "Introduction to ground improvement techniques" organized by Francis Xavier Engineering college, Tamil Nadu on 24/7/2020.
- 51.** Mr.Saneesh K has attended Webinar on " Waste water treatment by advanced oxidation process" organized by VJEC on 21/7//2020
- 52.** Mr.Saneesh K has attended Webinar on " Bond performance of pretensioned concretean over view" organized by Francis Xavier Engineering college, Tamil Nadu on 14/7/2020
- 53.** Mr.Rojin P has attended an online training programme on vertical transport-(lifts & escalators) conducted by prayojana construction management training institute
- 54.** Mr.Rojin P has attended webinar on relevance and avenues in civil engineering organised by amal jyothi engineering college, kottayam
- 55.** Mr.Rojin P has attended two day workshop on "aligning yourself to the publishing process" at elsevier, researcher academy on campus
- 56.** Mr. Sreejith K has attended webinar on "Computer Applications in Structural Engineering" by NRI Institute, and a webinar on "Outcome based Education software" by vm-edulife
- 57.** Mrs. Anitha Babu has joined as Part-time PhD scholar under KTU

58. Mr. Linjesh Sebastian participated in A Three Day National Level Online Faculty Development Program on “Sustainable Engineering (SE)” held during 27-29 August, 2020 organized by Department of Civil Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati
59. Mr. Sreejith K, AP,CE attended AICTE Incorporating Universal Human Values in Education (An AICTE Initiative)
60. Ms. Athira Rajendran,AP,CE has qualified Gate 2021

## **Student achievements**

1. Amrutha K K of S8 completed the Campus Ambassador Internship Program with the NEO Foundation at National Engineering Olympiad 3.0. Around 30 civil engineering students were selected as Campus Coordinators in the same program.
2. S8 students Dalvin Sebastian,, U V Nandu Delna Mariya and Albin T attended a 5 days free online training course on Vasthu organized by National Skill India Mission. The training was given by Rajadhani Career Academy.
3. In order to reduce the scarcity of water in Chemperi Panchayath including the college, Final year Students Dalvin Sebastian, Albin George, Chanchal Haridas and Shibina AP under the guidance of Mrs. Margaret Abraham conducted a survey for the possibility of a Cross Regulator in Chemperi river as their final year project.
4. Final year student Sandra tom has qualified Gate 2021
5. Anjali Prashand of S7 CE A has received job offer from TCS as well as Infosys.

# ANNUAL REPORT

2020-21

ELECTRICAL AND ELECTRONICS  
ENGINEERING DEPARTMENT

VIMAL JYOTHI ENGINEERING COLLEGE,  
CHEMPERI

The EEE department take pride in bringing out this comprehensive report of the plethora of activities conducted since lockdown. We have made great strides in every aspect that we need to focus on and the lockdown motivated us to make the best of the opportunities. When most of the world had stopped in the pandemic situation, our team was planning on self-development and institutional growth, and since then there has been no looking back. We have transitioned to the online mode and participated in numerous events and were organizing a variety of events / seminars/ faculty development programs/ workshops and orientation programs with our own faculty as resource persons.

## **PROGRAMS CONDUCTED**

- A Hands on workshop on “Embedded C using proteus software” was conducted for S5 EEE students by Mr.Sarin C R on 8th January 2021
- IEEE SB VJEC in association with Coding Blocks presents an online workshop on Coding Orientation.
- Department of EEE in association with IEEE Power and Energy Society conducted a Distinguished Lecturer Programme “Computational challenges for power system operation” on 26/02/21 by Mr. Yousu Chen (Chief Engineer, Electricity Security group, Pacific Northwest National Laboratory)
- IEEE PES Student branch conducted a Distinguished Lecturer Programme “Multi-cell and Multi-Level Power Converters” on 27/02/21 by Dr. Petar J.Grbovic
- As a part of Science week celebration IEEE SB VJEC conducted a webinar on the topic “Ozone depletion & it’s effects on the environment ” by Dr. Tom Cherian, Christ College, Irinjalakkuda on 24th February
- IEEE conducted Tech talk on 5G technology by Junaid Ahmed on 28 february2021
- IEEE PELS VIMAL JYOTHI is the technical partner of the international ieeesyps 2021.
- IEEE conducted general quiz on 27 February 2021
- IEEE conducted WEBINAR ON OZONE DEPLETION by Dr. Tom Cherian AP, Christ College on 24/02/21
- Conducted ONLINE QUIZ COMPETITION— AS A PART OF WOMEN’S DAYCELEBRATION
- Conducted BLOG WRITING CONTEST on 20 February 2021
- Conducted FDP on OPPORTUNITIES AND CHALLENGES OF INTEGRATING RENEWABLE ENERGY IN SMART GRID from 15 to 19 March 2021
- Conducted NATIONAL LEVEL RESEARCH SEMINAR ON GREEN ENERGY-2021 on 20 march 2021
- IEEE conducted ONLINE WORKSHOP ON CODING ORIENTATION by Ms. Mosina Ashraf Instructor, Coding Blocks on 29 march 2021
- Conducted WEBINAR ORGANISED BY IEEE SB VJEC ON 26 MAY 2021 IN ASSOCIATION WITH ENTRY APP by Ms.Ammu Sanil, Educator, Entri App
- Conducted A TALK BY Ms.SALLY VARMA ORGANISED BY IEEE WIE AFFINITY GROUP ON 8 MAY 2021 AS A PART OF WIE WEEK CELEBRATION
- Conducted CALL FOR MEMBER VOLUNTEER PROGRAM BY IEEE SB VJEC only for VJECians
- Conducted INSTAGRAM REELS COMPETITION OR-GANISED BY IEEE SB VJEC AS A PART OF EUPHORIA –TECHNO CULTURAL FEST

- IEEE IAS SBC conducted WORKSHOP ON “ENTREPRENEURSHIP” ORGANISED BY IEEE IAS SB VJEC 30 APRIL 2021 ONWARDS by Mr. Thejus Joseph, consultant at FabCi, IIT Hyderabad
- IEEE IAS SBC conducted WORKSHOP ON “APP DEVELOP-MENT” ORGANISED BY IEEE IAS SB VJEC 12 MAY 2021 ONWARDS by Mr. Sarin CR, AP, EEE, VJEC
- IEEE IAS SBC conducted WORKSHOP ON “INTERNET OF THINGS” ORGANISED BY IEEE IAS SB VJEC 7 MAY 2021 ONWARDS by Mr. Sarin CR, AP, EEE, VJEC
- IEEE IAS SBC conducted WORKSHOP ON “ROBOTICS” ORGAN-ISED BY IEEE IAS SB VJEC 6 MAY 2021 ONWARDS by Mr. Sunil Paul, Director, Christ Center for Innovation and open learning
- Conducted ARTICLE WRITING COMPETITION ORGAN-ISED BY IEEE PES SB VJEC ON 11 MAY 2021 AS A PART OF NATIONAL TECHNOLOGY DAY CELEBRATION
- Conducted TALK ON “IMPORTANCE OF PES DAY AND THEME” ORGANISED BY IEEE PES SB VJEC ON 25 MAY 2021 by ER. Anandhu S Kumar, Regional Co- ordinator, PES Day 2021
- Conducted PES DIARIES COM-PETITION ORGAN-ISED BY IEEE PES SB VJEC
- Conducted A TALK ON “CAREER DEVELOPMENT” ORGANISED BY IEEE PES SB VJEC ON 22 APRIL 2021 by Er. Suhair AK, Chair, IEEE PES Kerala
- Conducted QUIZ COMPETITION ORGANISED BY IEEE PES SB VJEC ON 8 APRIL 2021 ON “NEW & RENEWABLE ENERGY SOURCES”
- Conducted The farewell function of final year students DESPEDIDA were orga-nized on 8th July 2021 at 10:00 am through Google Meet.
- IEEE SBC VJEC Conducted a webinar on “High Reporting Rate Measurements for Smarter Grids” on 24th June at 05:30 pm. By Dr. Mihaela Albu, professor, EE, Politechnica University of Bucharest
- IEEE SBC VJEC Conducted a session on “Introduction to IEEE HAC & SIGHT” on 5th June at 07:00 pm. By Mr. Lwanga Herbert, Chair of the 2021 IEEE SIGHT Steering Committee
- IEEE SBC VJEC organized a competition “CLEVER PATCH” -The art and craft from recycled materials.
- IEEE SBC VJEC Conducted a session on “COVID-19 Vaccination after effects” on 1st July at 05:30 pm. By Dr. Sarun Ghosh, Medical Officer in charge of FHCKottiyoor
- IEEE PELS SBC VJEC Conducted Regional distinguished lecture program on 9th June 06:00 pm. The resource person was Dr.G Bhuvaneshwari , Professor, Department of Electrical Engineering, IIT Delhi.
- IEEE IAS SBC VJEC Conducted a workshop on solar technology on 20th June 2021 by Mr. Febin Thomas, CEO and Mr. Ajin Jose, Business Development Executive, Augzet Engineers

- Conducted RAVICTUS ( an event consisting of a Workshop on Solar Technology on 20th June 2021 and followed by a Quiz competition on 27th June 2021)
- IEEE PES SBC VJEC Conducted a technical talk on “High-speed and High- power Permanent Magnet Machines” on 5th July 3.30 pm. The resource person was Dr.Rukmi Dutta , Post graduate research scholar, School of Electrical Engineering and Telecommunications, UNSW Sydney

## **FACULTY ACHIEVEMENTS**

- Ms. TEENA GEORGE , AP, EEE has presented a paper international conference on Power Electronics and renewable Energy "Optimum Torque, Zero d-axis Current Control of Direct Driven PMSG Based Wind Energy conversion System"
- Ms.Teena George (Assistant Professor, EEE) published a paper titled “Maximum Power Tracking and Power Sharing in Grid Connected WECS Using Modified PFC Rectifier and PR Controlled Inverter” in SCIE indexed journal, Electric power components and systems, Taylor and Francis DOI: 10.1080/15325008.2020.1857473
- Prof. Prabin James, Assistant Prof., EEE Department selected as the Secretary of IEEE IA/IE/PELS Jt.Chapter Kerala for the year 2021.
- Ms. Shelma George, AP, EEE has Completed 8 online courses on "Comprehensive Training Policy for Technical Teachers" under the initiative of AICTE towards Govt of India MHRD's program
- Ms.Shelma George (AP,EEE) participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Electrical & Computer Engineering" from 08-02-2021 to 12-02-2021 at NIT PATNA.
- Ms.Shelma George (AP,EEE) attended webinar on “Nikola Tesla, the AC Motor, and the Origins of Power Electronics” by IEEE 10th February 2021
- Five days Online FDP on "Opportunities and Challenges of Integrating Renewable Energy in Smart Grid" conducted by EEE Department,VJEC during 15th - 19th March 2021 coordinated by Mr.Jijo Joseph & Ms. Jyothi Joseph (AP, EEE)
- All faculty members of EEE Department attended in five days Online FDP on "Opportunities and Challenges of Integrating Renewable Energy in Smart Grid" conducted by EEE Department,VJEC during 15th - 19th March 2021.
- Dr.G.Justin Sunil Dhas participated in AICTE sponsored Short Term Training program on Sustainable Industrial Development through Industry 4.0, conducted by "Chennai Institute of Technology, Chennai", during 1st to 6th March,2021.

- Dr.G.Justin Sunil Dhas organized a "National level Research Seminar on Green Energy 2021" on 20th March, 2021
- Ms.Tintu George, AP,EEE attended five day online FDP on "Electric Vehicle" organized by Department of Electrical and Electronics Engineering, College of Engineering Kidangoor from 29.3.21 to 2.4.21
- Ms.Tintu George, AP,EEE attended TEQIP sponsored FDP on "State of the Art Technologies in EV control" organized by Department of Electrical and Electronics Engineering, Government Engineering College, Palakkad from 3.3.21 to 5.3.21.
- Ms.Shelma George (AP,EEE) participated & successfully completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Design Thinking " from 2021-06-21 to 2021-06-25 at Bharati Vidyapeeth College of Engineering.
- Ms.Indulekha K.M (AP,EEE) attended one-week online FDP on "Power and Energy Systems: Technical Progressions and Research Opportunities" organised by BNM Institute of Technology, Bangalore, Karnataka
- Ms.Shelma George (AP,EEE) attended Two Week Online Short Term Training Program on "Emerging Technologies in Electric Vehicles", During the Period from 02nd -14th August, 2021, Organised by Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla.
- Ms. Jyothi Joseph (AP, EEE) attended Inculcating human values in technical education by AICTE from 02nd -06th August.
- Ms.Shelma George (AP,EEE) elevated as IEEE Senior Member.
- Ms.Shelma George (AP,EEE) attended webinar on "Adaptive EMC Design for Wide Bandgap Power Converters in Aviation Applications" by IEEE 22nd July 2021



# VIMAL JYOTHI ENGINEERING COLLEGE, KANNUR

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ANNUAL REPORT FOR THE YEAR 2020- 2021

#### I. FACULTY ACHIEVEMENTS

<b>PUBLICATIONS</b>		
<b>Sl. No.</b>	<b>Details</b>	<b>Month &amp; Year</b>
1	Ms. Ann Mariya E S, Ms. Farhana Mohammed Ali, Ms. Mariya Saju, Mr. Sachin Saju, Ms. Neena V V, published paper on “Machine Learning and Internet Of Things based Fruit Quality Monitoring System: A Proof of Concept Implementation and Analysis”, in International Journal for Research in Applied Science and Engineering Technology, Volume 8, Issue VI, ISSN:2321-9653, June 2020.	June 2020
2	Ms. Athulya Maria, Ms. Anu John, Ms. Juhi Krishna, Ms. Jasmin Joy, Ms. Ancy K Sunny published a paper on “Automatic Form Filler”,in International Journal for Research in Applied Science & Engineering Technology, Volume 8, Issue VI, June 2020.	June 2020
3	Ms. Aswani K, Nirmal Sudarman,Ms. Keerthijith P, Kavya Rajeev and Athulya Tomy published paper " Smart stick for blinds with advanced face recognition and vehicle detection using machine learning ", in International Journal for Research in Applied Science and Engineering Technology (IJRASET) ,volume 8, issue VII, ISSN : 2321-9653.	July 2020
4	Ms. Asha Baby, Ms. Sincy Joseph, Navya Francis, Ms. Binsi Farha and Ms. Anu John published a Paper titled "Intravenous Drip Monitoring System for Smart Hospital Using IoT" in the 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT).	September 2020
5	Dr. Renji P Cherian published a paper titled “Weight Optimized Neural	October 2020

	Network for Heart Disease Prediction using Hybrid Lion plus Particle Swarm Algorithm” in Journal of Biomedical Informatics (SCIE Journal Paper.).Ref: <a href="https://www.sciencedirect.com/science/article/abs/pii/S1532046420301714">https://www.sciencedirect.com/science/article/abs/pii/S1532046420301714</a> .	
6	Ms. Keerthijith P published a paper entitled " Bitcoin: An Overview of the Innovative Decentralised Digital Currency" in Journal of Computer, Internet and Network Security ISSN: 2457-0176.	October 2020
7	Agnes Jinson, Ashlin K. Wilson, Dharsana Narayanan P, Merin John & Dr. Jeethu V. Devasia presented the paper "An Integrated Framework for Taxi Service Automation Using IoT" in the 2nd International Conference on Technology Convergence in Engineering, Energy and Sustainability (ICTCEES-2020).	July 2021
8	S. Vinod and M. V. Thomas, "A Comparative Analysis on Deep Learning Techniques for Skin Cancer Detection and Skin Lesion Segmentation," in International Conference on Communication, Control and Information Sciences (ICCISc), 2021, pp. 1-6, doi: 10.1109/ICCISc52257.2021.9484873.	July 2021

**PROJECT/FDP/STTP/MODROBS FUNDING (APPLIED / SANCTIONED)**

Sl No.	Details	Category
1	Dr. Jeethu V. Devasia applied for MODROB AQIS AICTE 2021. Ms. Derroll David acted as Co-coordinator.	AICTE MODROBS
2	Dr. Jeethu V Devasia applied for AICTE AQIS Research Promotion Scheme, December 2020.	AICTE AQIS
3	Many faculty members applied for funding under KTU CERD Student project scheme	KTU CERD

<b>RESOURCE PERSON</b>			
<b>Sl. No.</b>	<b>Details</b>	<b>Date (From– To)</b>	<b>No. of Days</b>
1	Dr. Manoj V. Thomas contributed as a resource person in the webinar “AI and Data Science” for the B.Tech aspirants.	08.08.2020	1
2	Dr. Manoj V. Thomas contributed as a resource person in the webinar “Effective Communication” for CSE students.	08.10.2020	1
3	Dr. Manoj V. Thomas contributed as a resource person in the webinar “Writing Technical Papers” for CSE students.	21.11.2020	1
4	Dr. Manoj V. Thomas contributed as a resource person in the webinar “AI and Data Science” for the B.Tech aspirants.	08.08.2020	1
5	Dr. Jeethu V Devasia contributed as a resource person in the FDP on “Machine Learning With Its Mathematical Foundations”, organized by the CSI chapter at Vimal Jyothi Engineering College, Kannur.	02.03.2021 - 06.03.2021	5
<b>FACULTY DEVELOPMENT PROGRAM AND WORKSHOPS ATTENDED</b>			
<b>Sl. No.</b>	<b>Details</b>	<b>Period</b>	<b>No. of Days/ Hours</b>
1	Ms. Divya B attended AICTE Training And Learning (ATAL) Academy sponsored Online FDP on "Internet of Things (IoT)" organized by Indian Institute of Information Technology(IIT Nagpur).	07.05.2020 - 11.05.2020	5
2	Ms Derroll David attended AICTE Training And Learning (ATAL) Academy sponsored Online FDP on "Cyber Security" organized by National Institute of Technical Teachers Training & Research, Chandigarh.	28.05.2020- 01.06.2020	5
3	Ms. Derroll David attended one week International FDP on “Synergia to Revitalise, Reform and Refresh Ourselves as Agents to Ensure Quality Education”organized by the Department of Business Administration, Auxilium College	01.06.2020- 07.06.2020	7

	(Autonomous),Vellore.		
4	Ms. Derroll David attended online FDP on "Outcome Based Education Software"organized by VM edu life software services.	04.06.2020	1
5	Ms. Derroll David attended online FDP on "Advancements in IoT" organized by the Department of Computer Science in association CSI Students Chapter, MMCOE Pune.	08-06-2020- 12-06-2020	5
6	Ms. Derroll David attended International FDP on “Data Science and its Real Time Applications” organized by the Department of Computer Science, in collaboration with Brainswig Edutech Pvt. Ltd., Chennai.	08.06.2020- 14.06.2020	7
7	Ms. Derroll David attended a workshop on "Google Hacking and Cybersecurity" organized by GHCSS in association with ICFOSS.	09-06-2020	1
8	Ms. Derroll David attended "RBCDSAI's International Summit on Data Science and AI" organized by the Robert Bosch Centre for Data Science and Artificial Intelligence, Indian Institute of Technology Madras.	18.06.2020- 20.06.2020	3
9	Ms. Tintu Devasia attended FDP on IoT and Cloud Applications organized by Dayananda Sagar Academy of Technology and Management, Banglore.	06-07-2020- 10-07-2020	5
11	Ms. Divya B attended FDP on “IOT and Cloud Applications” organized by Dayananda Sagar Academy of Technology and Management, Bangalore.	06.07.2020- 10.07.2020	5
12	Ms Angel Varghese attended international FDP on "Recent Trends and Advancements in Information Technology" organised by FISAT, Angamaly.	27.07.2020- 01.08.2020	5
13	Ms Divya K attended a national level online FDP on “Emerging research trends in VLSI, MEMS & signal processing” organized	10.08.2020- 13.08.2020	4

	by Saintgits College of Engineering ,Kottayam in association with IETE.		
14	Mr. Abdul Latheef attended AICTE Training And Learning (ATAL) Academy sponsored Online FDP on "Online teaching and learning technologies"organized by Motilal Nehru National Institute of Technology Allahabad.	17.08.2020- 21.08.2020	5
15	Mr. Abdul Latheef attended AICTE Training and Learning (ATAL) Academy sponsored One Week FDP on “Artificial Intelligence, Machine Learning And Genomics” organized by Sri Krishna College Of Engineering And Technology Coimbatore.	31.08.2020– 04.09.2020	5
16	Dr. Manoj V. Thomas Attended 5 Days FDP on Student Induction organized by AICTE.	21.09.2020- 25.09.2020	5
17	Ms Angel Varghese Attended 5 days FDP on “Universal Human Values” organized by AICTE.	05.10.2020- 09.10.2020	5
18	Mr. Abdul Latheef attended AICTE Training and Learning (ATAL) Academy sponsored FDP on “Online Teaching and Learning Technologies” organized by Motilal Nehru National Institute of Technology Allahabad	17.08.2020- 21.08.2020	5
19	Ms. Achala Prasad attended FDP on “Education 4.0 The future ahead” organized by Sree Sairam College of Engineering Mangalore.	10.08.2020- 14.08.2020	5
20	Dr. Jeethu V. Devasia attended AICTE Training And Learning (ATAL) Academy sponsored FDP on “Blended Learning and Flipped Classroom” organized by Sardar Vallabhbhai National Institute of Technology Surat	10.08.2020- 14.08.2020	5
21	Ms. Ankita Sebastian attended an online bootcamp on “Electric Vehicle" organized by Panimalar Institute of technology and Pantech e learning.	20.08.2020- 22.08.2020	3

22	Ms. Keerthijith P attended 2 day workshop on “introduction to android development and deployment” organized by the CSI chapter at Vimal Jyothi Engineering College, Kannur	15.09.2020- 16.09.2020	2
23	Ms. Angel Varghese attended an on-line Workshop on “Incorporating Universal Human Values in Education for Directors, Deans and Faculties” organized by AICTE .	05.09.2020- 09.09.2020	5
24	Dr. Jeethu V. Devasia attended AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence" organized by Centre for Development of Advanced Computing, Kolkata.	23.11.2020- 27.11.2020	5
25	Mr. Thomas Jacob attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Cyber Security " organized by Gandhi Institute of Technology and Management Gitam Bengaluru.	14.12.2020- 18.12.2020	5
26	Mr. Lithin Mathew attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Artificial Intelligence" organized by GSSS Institute of Engineering and Technology for Women.	04.01.2021- 08.01.2021	5
27	Ms. Shijimol K T attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Health management" organized by Shaheed Bhagat Singh State Technical Campus, Ferozepur.	04.01.2021 - 08.01.2021	5
28	Mr. Sibi Joseph attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Quantum Computing" organized by K.S.Rangasamy College of Technology .	04.01.2021 - 08.01.2021	5
29	Mr. Sibi Joseph attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Internet of Things (IoT)" organized by LBS College of Engineering, Kasaragod.	11.01.2021 - 15.01.2021	5
30	Mr. Thomas Jacob attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Artificial Intelligence" organized by GSSS Institute of Engineering and	04.01.2021 - 08.01.2021	5

	Technology for Women.		
31	Ms. Bindu Sebastine attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Artificial Intelligence" organized by GSSS Institute of Engineering and Technology for Women.	04.01.2021-08.01.2021	5
32	Ms. Derroll David and Dr. Jeethu V Devasia attended an Awareness Workshop on "NIRF INDIA RANKINGS 2021 for Higher Educational Institutions" organized by Institute for Academic Excellence in collaboration with Collegiate Education & Technical Education Department, Govt. of Telangana.	18.01.2021-19.01.2021	2
33	Mr. Sibi Joseph attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Artificial Intelligence" organized by Sree Buddha College of Engineering.	18.01.2021-22.01.2021	5
34	Mr. Thomas Jacob attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Data Sciences" organized by Gudlavalleru Engineering College.	19.01.2021-23.01.2021	5
35	Mr. Thomas Jacob attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Data Sciences" organized by Gudlavalleru Engineering College.	19-01-2021-23-01-2021	5
36	Ms. Bindu Sebastine attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Waste Technology" organized by IILM College of Engineering & Technology.	27.01.2021-31.01.2021	5
37	Ms. Shijimol K T attended AICTE Training And Learning (ATAL) academy sponsored online FDP on "Training for Social Connectedness & Inspiration" organized by Ramakrishna Mission Vivekananda Educational & Research Institute Faculty of Disability Management and Special Education.	01.02.2021-05.02.2021	5
38	Mr. Timmy Phlip attended AICTE Training And Learning (ATAL) academy sponsored online FDP on "Cyber Security"	01.02.2021-05.02.2021	5

	organized by Jawaharlal Nehru National College of Engineering.		
39	Ms. Bindu Sebastine attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Electric Vehicles" organized by Manipal University Jaipur.	01.02.2021- 05.02.2021	5
40	Mr. Lithin Mathew attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Internet of Things (IoT)" organized by Department of Computer Science, Cochin University of Science and Technology.	02.02.2021 - 06.02.2021	5
41	Mr. Thomas Jacob attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Electric Vehicles" organized by KPR Institute of Engineering and Technology.	08.02.2021- 12.02.2021	5
42	Mr. Sibi Joseph attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Cyber Security" organized by Sanjivani College of Engineering, Kopergaon.	08.02.2021- 12.02.2021	5
43	Dr. Jeethu V Devasia attended KTU sponsored FDP on "Data Science and Artificial Intelligence" organized by Rajagiri School of Engineering and Technology.	08.02.2021 - 12.02.2021	5
44	Ms. Ancy K Sunny, Ms. Anisha Joseph, Ms. Akhila Mathew, and Ms. Tintu Devasia attended KTU sponsored FDP on "Data Science and Artificial Intelligence" organized by Rajagiri School of Engineering and Technology.	08.02.2021 - 12.02.2021	5
45	Mr. Thomas Jacob attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Electric Vehicles" organized by KPR Institute of Engineering and Technology.	08-02-2021- 12-02-2021	5
46	Mr. Lithin Mathew attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on "Photography" organized by Dayalbagh Educational Institute.	09.02.2021- 13.02.2021	5
47	Mr. Timmy Philip attended AICTE Training And Learning (ATAL) academy sponsored Online FDP on	09.02.2021 - 13.02.2021	5



	"Photography"organized by Dayalbagh Educational Institute.		
48	Ms. Shijimol K T attended AICTE Training And Learning (ATAL) academy sponsored online FDP on "Wearable Devices" organized by Anna University.	15.02.2021- 19.02.2021	5
49	All faculty members of CSE Department attended FDP on "Machine Learning With Its Mathematical Foundations", organized by the CSI chapter at Vimal Jyothi Engineering College, Kannur.	02.03.2021 - 06.03.2021	5
50	Dr. Jeethu V Devasia attended Online FDP on "Python for Engineers", sponsored by IETE, organized by Electronics and Communication Department of Vimal Jyothi Engineering College, Kannur.	26.04.2021- 30.04.2021	5
51	Ms. Achala Prasad and Mr. Abdul Latheef attended FDP on "IoT based Autonomous Robot Design", sponsored by APJ Abdul Kalam Technological University, organized by Department of Electronics & Instrumentation of Vimal Jyothi Engineering College, Kannur.	28.04.2021- 30.04.2021	3
52	Ms. Achala Prasad and Ms. Asha Baby attended FDP on "Research Trends in Social Network Analytics", sponsored by APJ Abdul Kalam Technological University, organized by Department of Computer Science and Engineering of SCMS School of Engineering and Technology.	24.05.2021 - 28.05.2021	5
53	Ms. Divya B attended the "Campus Connect SPoCs meet", organized by Infosys Head start team.	27.05.2021	1
54	Ms. Divya K. attended Workshop on "Artificial Intelligence—Creating the Future & Exploring Machine Learning Techniques in Data Mining" organized by the Department of Computer Science & Engineering, College of Engineering Sasthamcotta.	20.05.2021- 21.05.2021	2
55	Ms. Anisha Joseph and Ms. Ancy K. Sunny attended FDP on "RedHat RHCSA", organized by COSS Bangalore.	17.05.2021- 31.05.2021	5

56	Ms. Divya K attended IEEE sponsored National Level Workshop on “Research Methodology” organized by Annai Vailankanni College of Engineering, Kanyakumari.	02.06.2021- 04.06.2021	3
57	Ms. Keerthijith P, Ms. Akhila Mathew and Ms. Neena V V attended KTU sponsored FDP on “Deep Learning for Image and Video applications” organized by LBS College of Engineering Kasaragod.	15.06.2021- 17.06.2021	3
58	Ms. Nayana Suresh attended Faculty Development Program on “Digital Teaching Techniques” organized by ICT academy of Kerala.	16.06.2021- 23.06-2021	5
59	Ms. Divya B attended AICTE Training And Learning (ATAL) Academy sponsored Online Elementary FDP on "Artificial Intelligence and Machine Learning" organized by National Institute of Technology Raipur.	04.10.2021 - 08.10.2021	5

#### SHORT TERM TRAINING PROGRAM

Sl. No.	Details	Date (From– To)	No. of. Days
1	Ms. Asha Baby attended AICTE sponsored STTP on "Data Analytics and Machine Learning" organized by Rajagiri college of engineering , Ernakulam.	03-08-2020 - 08-08-2020	6
2	Ms. Tintu Devasia, Sr. Jisha C T attended Online STTP on “Big Data and Security” organised by College of Engineering Karunagappally.	22.03.2021 - 26.03.2021.	5
3	Ms. Divya K. attended AICTE sponsored STTP on “Data Science and Machine Learning” organized by Narula Institute of Technology , Kolkata	07.06.2021 - 11.06.2021	5

#### WEBINARS ATTENDED

Sl. No	Details	Period
--------	---------	--------

1	Ms. Derroll David attended webinar on “Referencing and Citation Tools: Mendeley” conducted in Association with Elsevier.	08.01.2021
2	Keerthijith P, Neena V V, Divya B, Asha Baby, Achala Prasad, Akhila Mathew, Dr. Manoj V Thomas, Dr. Jeethu V Devasia, Ms. Ancy K Sunny, Sr. Jisha C T, Ms. Derrol David , Ms Anisha Joseph, Ms Divya K attended Webinar on “funding projects, consultancies and book writing” by Dr. Kothari former VC,VIT university and organized by Department of ECE,VJEC.	08.07. 2020
3	Ms. Asha Baby attended a Webinar on “IoT using Raspberry Pi” organized by NoviTech.	13.07. 2020
4	Ms. Derroll David attended one day National Webinar on "Topological Indices - Worm's Eye View" organized by PG & Research Department of Mathematics.	17.06.2020
5	Ms. Derroll David attended International webinar on "Few Business Stories.. Many Lessons.. under pandemic situation" organized by Entrepreneurship Development Cell by V. P. Institute of Management Studies and Research, Sangli.	12.06.2020
6	Ms. Derroll David attended a webinar on "Future of AI and How to Build a Career in AI" organized by CSE Dept., MBC CET Peermade.	06.06.2020
7	Ms. Derroll David attended webinar on "EFFICACY OF AI" organized by Department of Computer Science and Engineering, KMEA Engineering College in association with Computer Society of India.	08.06.2020
8	Ms. Derroll David attended National Webinar on "Digital Transformation : A Progressive Approach"	15.06.2020

	organised by Vidyasagar College of Education, Darjeeling in partnership with DigitalEdu IT Solutions Pvt. Ltd.	
9	Ms. Achala Prasad, Ms. Divya K, Ms. Akhila Mathew attended webinar on “career opportunities in RedHat”, conducted by department of CSE, VJEC in association with RedHAT.	19.09.2020

## **II. STUDENT ACHIEVEMENTS**

<b>Sl. No.</b>	<b>Details</b>	<b>Period</b>
1	Ms. Juhi Krishna (CS20S61302152), 2016-2020 Batch qualified in GATE 2020. She was also placed in TCS, CTS and Federal Bank.	June 2020
2	Mr. Harshin Ramesh (S8 CSE) 2016-2020 batch participated in the Idea Competition conducted by IEDC Cell VJEC to address COVID 19, and his idea of "Face Mask Detector " selected for developing the product through VJ Inspire ( Price amount for the same is Rs. 7000/-).	July 2020
3	Mr. Uvais Hassan, Joshua Mathew and Akash Ajith, S3 CSE A (2019-23 Batch) developed the Timetable App.	October 2020
4	11 Students from ADS (2020-2024 BATCH) successfully completed KELTRON internship.	28.12.2020 - 10.01.2021
5	The following students under the guidance of Ms. Akhila Mathew, Assistant Professor CSE were selected for TOYCATHON . The idea named “PYTHOTRON” was selected. The student members include : Augustine Felix Joshy(S1 CSE B), Anson Leon Sebastian (S1 CSE B), Swetha N (S1 CSE B), Diya K P (S1 CSE B), Neha Premarajan(S1 CSE B) and Alan Jyothis Thomas (S1 CSE B).	January 2021

6	The following students under the guidance of Ms. Akhila Mathew, and Mr. Ansil Nazar, Assistant Professor CSE were selected for TOYCATHON . The idea named “HeX Tex” was selected. The student members include : Akhila Raghunath (S1 CSE B), Manjima Ann Biju (S1 CSE B), Fathimath Rajiya P K (S1 CSE B), Adithyan C V (S1 CSE B), K K Nasif (S1 CSE B), and Abhinav Viswanath (leader) (S1 CSE B).	January 2021
7	Sangeeth K and Akash Ajith of S3 CSE A (2019-23 Batch) have performed excellently in "Unite for Unity " and secured the first position in the technical festival Cepheus'21 organized by IIT, Goa.	January 2021
8	Mr. Abhinav Purushothaman (VML20CS004) of S1 CSE A secured First position in Unite for Unity (Theme 1) event in the Technical Festival Cepheus 21 organized by Indian Institute of Technology, Goa. (2020-2024 Batch)	07.01.2021 - 09.01.2021
9	16 Students from ADS (2020 - 2024 BATCH) completed "PYTHON101x: Basic Programming using Python" an online course offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay.	26.01.2021 - 28-05.2021
10	Ms. Anagha P P has obtained titled “maximum pencil portraits of nobel prize winners of India under India Book of Records ”	May 2021
11	Ms. Aleena Joseph S8 CSE attended “ The Virtual Grace Hopper Celebration India (GHCI)’21”, hosted by AnitaB.org in association with ACM.	May 2021
12	Mr. Aromal Joseph, Mr. Arun Augustine, Mr. Febin Johnson and Mr. Thomas Anto of S8 CSE have developed a Bulk WhatsApp Messenger.	May 2021
13	Mr. Sidharth Sham Lal (VML20CS161) of S1 CSE A secured First prize in Techwiz (Technical Quiz) event in the 4th National Level Techfest, Techkranti 4.0 held at SNGCET, Payyannur.	15.06.2021 - 16.06.2021

Sl. No.	Details	Date	Company
1	16 Students from ADS (2020 - 2024 BATCH) completed "PYTHON101x: Basic Programming using Python" an online course offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay.	26.01.2021- 28.05.2021	IITBombayX
2	Saurav Vinod (M4 CSE) successfully completed UDEMY online course on Javascript.	13.05.2021	UDEMY
3	24 Students of S4 CSE- A and 37 Students of S2 CSE -C enrolled in NPTEL courses.	June 2021	NPTEL
4	11 Students of S6 CSE enrolled in NPTEL courses.	July 2021	NPTEL

### **III. EVENTS ORGANIZED**

Sl. No.	Details	Date (From - To)	No. of Days	Faculty Coordinator	Category
1	Members of CSED Alumni of all the batches participated in Online Alumni Meeting conducted at college level.	June 2020	1	Dr. Jeethu V. Devasia	
2	An online 3 day workshop on Full Stack Web Development in association with IEDC VJEC and Programming Club CSE.	29.07.2020- 31.07.2020	3	Ms. Keerthijith P	IEDC VJEC and Programming Club CSE.
3	A webinar on A preface to GATE examination; how to score, how to win.	04.08.2020	1	Ms. Asha Baby & Ms. Achala Prasad	Webinar
4	An Online Ethical Hacking workshop - A Dive Into Your Privacy.	06.08.2020 - 07.08.2020	2	Ms Divya B & Ms Neena V V	ACM student chapter

5	A Webinar on, From Students to Professionals.	12.08.2020	1	Ms. Asha Baby & Ms. Derroll David	Webinar
6	A Webinar on Ideate –A Project Mentoring Session.	22.08.2020	1	Ms Divya B & Ms Neena V V	ACM student chapter
7	An online Faculty Development Program (FDP) on Machine Learning with its Mathematical Foundations	02.03.2021 - 06.03.2021	5	Dr. Jeethu V Devasia, Ms. Akhila Mathew, & Mr. Ansil Nazar	CSI student chapter
8	A Workshop on An extended learning on data mining algorithms	16.04.2021 - 17.04.2021	2	Ms. Asha Baby	Workshop
9	A Workshop on Ethical Hacking	22.04.2021 - 23.04.2021	2	Ms. Anisha Joseph	Workshop
10	A Workshop on Facebook Spark AR Studio	15.05.2021	1	Ms. Divya B	ACM student chapter
11	An enthralling introduction to the world of C programming	22.05.2021	1	Ms. Divya B & Ms. Neena V V	ACM student chapter
12	A Webinar on get career ready by contributing to PEN Source	26.05.2021	1	Ms. Divya B & Ms. Neena V V	ACM student chapter
13	A Webinar on Interactive Session on Virtual Wellness.	06.06.2021	1	Ms. Achala Prasad	Webinar
14	An Idea Competition Theme-Covid 19 Innovation Challenge.	07.06.2021	1	Ms. Keerthijith P	Programming Club
15	A Quiz Competition (Insecto hunt) .	09.06.2021	1	Ms. Keerthijith P	Programming Club

16	An Expert talk on Embedded systems in association with the CSI student chapter .	14.06.2021-15.06.2021	2	Mr Abdul Latheef, Ms Achala Prasad, Ms Divya K	CSI student chapter
17	A Webinar on career opportunities in RedHat in association with RedHat.	19.09.2020.	1	Ms. Anisha Joseph	Webinar
18	A workshop on Writing Technical Papers.	21.11.2020	1	Ms. Akhila Mathew	CSI student chapter
19	A workshop on Machine Learning with Python PART1	17.10.2020	1	Ms. Akhila Mathew	CSI student chapter
20	A workshop on Machine Learning with Python PART2	31.10.2020	1	Ms. Akhila Mathew	CSI student chapter
21	A workshop on Introduction to Android Application.	15.08.2020. & 16.08.2020	2	Ms. Akhila Mathew	CSI student chapter

#### **IV. CAMPUS PLACEMENT**

In 2017-2021 batch 37 students got placed in various reputed companies like TCS, Infosys, IBM, Zoho etc.

<b>Sl.No.</b>	<b>Details</b>	<b>Batch</b>	<b>Company</b>
1	Mr. Agin Chandran, Ms. Aiswarya M, Mr. Akshay Mohan, Mr. Albin Joseph, Ms. Aleena Joseph, Ms. Anagha Asokan, Mr. Aromal Joseph, Ms. Linisha Suresh, Ms. Prajwala Raj, Mr. Rohith P R, Ms. Shreya Nambiar, and Mr. Thomas Anto	2017-2021	TCS
2	Ms. Devika K, Ms. Jewel Joseph, and Ms. Keerthi Ramesh	2017-2021	LAZIM SOFTWARES
3	Mr. Agin Chandran, Ms. Anagha Asokan, Ms. Ashly K P, Mr. Nived Rajeevan and	2017-2021	QUEST



	Mr. Vivek Rajan Nair		
4	Mr. Albin Joseph, Ms. Neha Ajay, Mr. Sajin Haridas, Mr. Vivek Rajan Nair, Ms. Priyamol James, Ms. Vaishnavi K, Ms. Rohith P R, Ms. Merena George, Ms. Devika K, Ms. Angel Anto, and Mr. Akshay Mohan	2017-2021	INFOSYS
5	Mr. Abinkrishna P V and Mr. Abhinav K M	2017-2021	NETHRAM LLC
6	Mr. Agin Chandran, Ms. Aleena Joseph, and Ms. Anagha Asokan	2017-2021	ZOHO
7	Mr. Agin Chandran and Ms. Nivedya Susil	2017-2021	GADGEON
8	Ms. Aleena Saju, Ms. Anusha John, Ms. Vyshnavi K, and Ms. Merin Benny	2017-2021	FACE PREP
9	Mr. Akshay M	2017-2021	TECHMAHINDRA (Internship)
10	Ms. Aleena Joseph	2017-2021	Guide House
11	Ms. Anagha Asokan and Mr Thomas Anto	2017-2021	WIPRO
12	Mr. Akshay M, Mr. Arun Augustine, Mr Renil Aneesh, Mr. Abhinav K M, Ms Vyshnavi K	2017-2021	Innovature
13	Mr. Akshay M, Ms. Angel Anto, Ms. Devika K, Ms. Anusree K.	2017-2021	QSpiders
14	Ms. Neha Ajay, Ms. Riya Sebastian	2017-2021	Accenture
15	Ms. Sreelakshmi Suresh Kumar, Mr. Febin Johnson, Ms. Anusree K and Ms. Anila Sebastian	2017-2021	Fingertip plus technologies
16	Mr. Nived Rajeevan	2017-2021	Price Water House Coopers
17	Ms. Anusha Johnson	2017-2021	Terralogic
18	Mr. Saurav Vinod	2019-2021 MTech	Cognizant

**V. AUDITS/MEETING**

Sl. No.	Details	Date (From – To)	Faculty Responsible
1	Course Team Meeting of S7 CSE (2017-2021 Batch).	12.08.2020	Ms. Ancy K Sunny, Ms. Divya K, Ms. Achala Prasad
2	Course Team Meeting of S3 CSE A(2019-2023 Batch).	12.08.2020	Sr. Jisha C T, Ms. Tintu Devasia
3	First Class Committee of S7 CSE (2017-2021 Batch).	26.09.2020	Ms. Ancy K Sunny, Ms. Divya K, Ms. Achala Prasad
4	First Advisory Meeting of S3 CSE A(2019-2023 Batch).	26.09.2020	Sr. Jisha C T, Ms. Tintu Devasia
5	First class committee meeting of S5 CSE (2018-22 Batch).	26.09.2020	Ms Neena V V, Ms Keerthijith P
6	Second Class Committee of S7 CSE (2017-2021 Batch).	09.12.2020	Ms. Ancy K Sunny, Ms. Divya K, Ms. Achala Prasad
7	Second Advisory Meeting of S3 CSE A(2019-2023 Batch).	11.12.2020	Sr. Jisha C T, Ms. Tintu Devasia
8	First Advisory Meeting of S1 CSE A (2020-2024 Batch).	21.01.2021	Ms.Divya B & Mr Arjun R
9	First Advisory meeting of S1 CSE C(2020-2024 Batch).	21.01.2021	Mr Abdul Latheef & Ms Angel Varghese

10	First Advisory Meeting of S1 ADS (2020-2024 Batch)	22.01.2021	Dr. Manoj V Thomas & Ms. Derroll David
11	NAAC Internal Audit	01.02.2021 02.02.2021 04.02.2021 05.02.2021	All Faculty
12	NBA Internal Audit	22.02.2021 23.02.2021 24.02.2021 25.02.2021	All Faculty
13	Second Advisory Meeting of S1 CSE A (2020-2024 Batch)	26.02.2021	Ms.Divya B
14	Second Advisory Meeting of S1 ADS (2020-2024 Batch)	26.02.2021	Dr. Manoj V Thomas & Ms. Derroll David
15	Second Advisory meeting of S1 CSE C(2020-2024 Batch)	26.02.2021	Mr Abdul Latheef, Ms Angel Varghese
16	Course team meeting of M4 CSE (2019-21 Batch)	26.02.2021	Ms.Anisha Joseph
17	Third Advisory Meeting of S3 CSE A(2019-2023 Batch)	08.03.2021	Sr. Jisha C T, Ms. Tintu Devasia
18	Course team meeting of S8 CSE (2017-2021 Batch)	09.03.2021	Ms. Achala Prasad, Ms. Ancy K Sunny
19	Course team meeting of S6 CSE (2018-2022 Batch)	19.03.2021	Ms Neena V V, Ms Keerthijith P
20	First Class Committee of S8 CSE (2017-2021 Batch)	26.03.2021	Ms. Achala Prasad, Ms. Ancy K Sunny
21	First Class Committee of S6 CSE (2018-2022 Batch)	08.04.2021	Ms Neena V V,

			Ms Keerthijith P
22	First Class Committee of M4 CSE (2019-21 Batch)	12.04.2021	Ms.Anisha Joseph
23	Course team meeting of S4 CSE A,B (2019-2023 Batch)	20.04.2021	Sr. Jisha C T, Ms Tintu Devasia, Ms. Vidhya S S & Ms. Asha Baby
24	Course team meeting of S2 CSE A, B, C, ADS (2020-2024 Batch)	22.04.2021	Faculty Advisors
25	Course team meeting for M2 CSE (2020-22 Batch)	24.04.2021	Ms.Anisha Joseph
26	Second Class Committee of S8 CSE (2017-2021 Batch)	05.05.2021	Ms. Achala Prasad, Ms. Ancy K Sunny
27	First Advisory Meeting of S2 CSE A (2020-2024 Batch)	20.05.2021	Ms.Divya B, Ms. Ambili M A
28	First Advisory Meeting of S2 CSE C (2020-2024 Batch)	20.05.2021	Mr Abdul Latheef, Ms Angel Varghese
29	First Advisory Meeting of S2 ADS (2020-2024 Batch)	20.05.2021	Dr. Manoj V Thomas, Ms. Derroll David
30	First Class Committee of M2 CSE (2020-22 Batch)	21.05.2021	Ms.Anisha Joseph
31	First Advisory Meeting of S2 CSE B (2020-2024 Batch)	21.05.2021	Ms. Akhila Mathew
32	First Advisory Meeting of S4 CSE A,B (2019-2023 Batch)	24.05.2021	Sr Jisha C.T, Ms. Tintu Devasia, Ms. Vidhya S. S & Ms. Asha Baby
33	Second Class Committee of S6 CSE (2018-2022 Batch)	24.05.2021	Ms. Neena V V, Ms. Keerthijith P
34	Third class committee of S8 CSE (2017-2021 Batch)	19.06.2021	Ms. Achala Prasad, Ms. Ancy K Sunny
35	Third class committee of S6 CSE	09.07.2021	Ms. Neena V V,

	(2018-2022 Batch)		Ms. Keerthijith P
36	Second Advisory Meeting of S2 CSE C (2020-2024 Batch)	03.09.2021	Mr. Abdul Latheef, Ms. Angel Varghese
37	Second Advisory Meeting of S2 ADS (2020-2024 Batch)	03.09.2021	Dr. Manoj V Thomas & Ms. Derroll David
38	Second Advisory Meeting of S2 CSE A (2020-2024 Batch)	04.09.2021	Ms.Divya B, Ms. Ambili M. A.
39	Third Advisory Meeting of S2 CSE (2020-2024 Batch)	09.10.2021	Ms.Divya B, Ms. Ambili M. A.
40	Third Advisory Meeting of S2 CSE A (2020-2024 Batch)	10.10.2021	Mr. Abdul Latheef, Ms. Angel Varghese
41	Third Advisory Meeting of S2 ADS (2020-2024 Batch)	11.10.2021	Dr. Manoj V Thomas & Ms. Derroll David
42	Second class committee meeting of S5 CSE(2018-22 Batch).	9.12.2020	Ms. Neena V V, Ms. Keerthijith P
43	Third class committee meeting of S5 CSE(2018-22 Batch).	10.02.2021	Ms. Neena V V, Ms. Keerthijith P
44	Third Advisory meeting of S3 CSE(2019-2023 Batch).	10.03.2021	Sr. Jisha C.T , Ms. Vidhya S.S , Ms. Asha Baby, Ms. Tintu Devasia

### **IQAC**

- ✓ Formed IQAC for the academic year 2020-21 on September 2020.
- ✓ Completed IQAC for odd semester & even semester assignments and question papers.

### **ACHIEVEMENTS OF THE DEPARTMENT**

- ✓ Conducted Product Launch of “Covid Buster”, An automated thermal scan system, on 27.03.2021. Students under the supervision of Ms. Divya B, Assistant Professor CSE. Development team consisted of Mr. Aromal Joseph K. M. (VML17CS020), Mr. Josekutty

George (VML17CS036), Mr. Robin Jose (VML 17 AE016) and Ms. Ashly Ranjith (VML 17 CS023).

- ✓ Ms. Derroll David contributed as a Primary Evaluator in Toycathon 2021.
- ✓ Software Development Cell of VJEC under CSE Department completed “SyncVj – Faculty connect application for Vimal Jyothi Institutions” under guidance of Dr. Jeethu V. Devasia and Ms. Vidhya S S. Development team consisted of Mr. Agin Chandran (S7 CSE), Mr. Akshay Mohan (S7 CSE), Mr. Rohith P R (S7 CSE), Mr. Nihal Manoj (S5 CSE), Mr. Ramdev C M (S5 CSE) , Mr. Joshua Mathew (S3 CSE), Mr. Sreevedh Hareesh (S3 CSE).
- ✓ Software Development Cell of VJEC under CSE Department completed Students Careers Portal, a web-based application to post career opportunities with discussion forums for students and alumni of Vimal Jyothi Engineering College, under guidance of Dr. Jeethu V. Devasia and Ms. Vidhya S S. Development team consisted of Mr. Aromal Joseph K. M. (VML17CS020), Mr. Josekutty George (VML17CS036), Ms. Jewel Joseph (VML17CS034), Ms. Anamika Prasanth (VML18CS012), Ms. Ankitha K. (VML18CS014), Mr. Kiran Valsalan Nair (VML19CS069), Ms. Snigdha Sathyanathan (VML19CS105), and Mr. Arun Augustine (VML17CS021)
- ✓ Software Development Cell of VJEC under CSE Department completed Census Data Collection and Analysis, a web-based application for the Archdiocese of Tellicherry, under guidance of Dr. Jeethu V. Devasia, Ms. Akhila Mathew and Ms. Vidhya S S. During the first phase of this web app project, we collected data of around 2.4 lakh persons from 56K+ families under the archdiocese of Tellicherry spread across kannur and kasaragod districts. Development team consisted of Mr. Aromal Joseph K. M. (VML17CS020), Mr. Josekutty George (VML17CS036), Ms. Jewel Joseph (VML17CS034), Mr. Ramdev C. M. (VML18CS045), Mr. Nihal Manoj (VML18CS043), Mr. Joshua Mathew (VML19CS066), Ms. Snigdha Sathyanathan (VML19CS105), Ms. Aneesha S (VML19CS028), Mr. Ranjul Arumadi (VML19CS083) and Mr. Akash Ajith (VML19CS014).
- ✓ Technical magazine of CSE Department 'BYTE' was published on 28.06.2021. The flipbook version is: <https://heyzine.com/flip-book/b0717c1728.html>

### MENTORING

Sl. No.	Details	Date	Tutors
1	Mentoring session conducted for S1 CSE A, 2020-2024 Batch.	02.12.2020	Ms. Divya B

2	Mentoring session conducted for S2CSE B ,2020-2024 Batch.	January 2021	Ms.Divya K & Ms Akhila Mathew
3	Mentoring session conducted for S1 ADS ,2020-2024 Batch.	January 2021	Dr. Manoj V Thomas & Ms. Derroll David
4	Mentoring of S1 CSE C (2020 - 2024 Batch)	20.01.2021 -22.01.2021 27.01.2021 - 29.01.2021	Ms. Angel Varghese & Mr. Abdul Latheef
5	Mentoring session conducted for S1 CSE A, 2020-2024 Batch.	11.01.2021, 14.01.2021, & 30.01.2021	Ms. Divya B
6	Mentoring session conducted for S1 ADS ,2020-2024 Batch.	February 2021	Dr. Manoj V Thomas & Ms. Derroll David
7	Mentoring session conducted for S2CSE B ,2020-2024 Batch.	April 2021	Ms.Divya K & Ms Akhila Mathew
8	Mentoring session conducted for S1 ADS ,2020-2024 Batch.	April 2021	Dr. Manoj V Thomas & Ms. Derroll David
9	Mentoring session conducted for S2CSE B ,2020-2024 Batch.	May 2021	Ms.Divya K & Ms Akhila Mathew
10	Mentoring session conducted for S4 CSE B students, 2019-2023 Batch.	May 2021	Ms. Asha Baby & Ms Vidhya S S
11	Mentoring session conducted for S4 CSE A students, 2019-2023 Batch.	May 2021	Ms. Tintu Devasia & Sr.Jisha C T
12	Mentoring session conducted for S1 ADS ,2020-2024 Batch.	May 2021	Dr. Manoj V Thomas & Ms. Derroll David
13	Mentoring session conducted for S2CSE A ,2020-2024 Batch.	May 2021	Ms. Divya B & Ms. Ambili M A
14	Mentoring session conducted for M4 CSE students, 2019-2021 Batch.	May 2021	Ms. Anisha Joseph

15	Mentoring session conducted for S2CSE C ,2020-2024 Batch.	May 2021	Mr Abdul Latheef & Ms Angel Varghese
16	Mentoring session conducted for S8 CSE students, 2017-2021 Batch.	May 2021	Ms. Ancy K Sunny, Ms. Divya K, & Ms. Achala Prasad
17	Mentoring session conducted for S2 CSE A, 2020-2024 Batch.	19.05.2021	Ms. Divya B & Ms. Ambili M A
18	Mentoring session conducted for S4 CSE A, 2019-2023 Batch.	28.05.2021	Sr. Jisha C T, & Ms. Tintu Devasia
19	Mentoring session conducted for S6 CSE students, 2018-2022 Batch.	16.06.2021	Ms Neena V V & Ms Keerthijith P
20	Mentoring session conducted for S1 ADS ,2020-2024 Batch.	July 2021	Dr. Manoj V Thomas & Ms. Derroll David
21	Mentoring session conducted for S6 CSE students, 2018-2022 Batch.	05.07.2021	Ms Neena V V & Ms Keerthijith P
22	Mentoring session conducted for S2 ADS ,2020-2024 Batch.	13.07.2021 & 16.07.2021	Dr. Manoj V Thomas & Ms. Derroll David
23	Mentoring session conducted for S7 CSE ,2017-2021 Batch.	22.07.2020	Ms. Ancy K Sunny, Ms. Divya K, & Ms. Achala Prasad
24	Mentoring session conducted for S3 CSE A, 2019-2023 Batch.	12.08.2020	Sr. Jisha C T & Ms. Tintu Devasia
25	Mentoring session conducted for S3 CSE B , 2019-2023 Batch	18.08.2020	Ms. Vidhya S.S & Ms. Asha Baby
26	Mentoring session conducted for S5 CSE (2018-22 Batch)	19.08.2020	Ms Neena V V &



			Ms Keerthijith P
27	Mentoring session conducted for S2 CSE A, 2020-2024 Batch.	13.09.2021	Ms. Divya B & Ms. Ambili M A
28	Mentoring session conducted for S5 CSE (2018-22 Batch)	16.09.2020	Ms Neena V V & Ms Keerthijith P
29	Mentoring session conducted for S7 CSE(2017-2021 Batch).	17.10.2020	Ms. Ancy K Sunny, Ms. Divya K, & Ms. Achala Prasad
30	Mentoring session conducted for S5 CSE (2018-22 Batch)	17.10.2020	Ms Neena V V & Ms Keerthijith P
31	Mentoring session conducted for S3 CSE B, 2019-2023 Batch.	20.10.2020	Ms. Vidhya S.S & Ms. Asha Baby

### PTA MEETINGS

Sl. No.	Details	Date	Faculty in charge
1	PTA Meeting of S2 CSE A, S2 CSE B, S2 CSE C, & S2 ADS (2020-2024 Batch)	16.02.2021	Ms. Divya B, Ms. Akhila Mathew, Mr. Abdul Latheef , Ms. Derroll David
2	PTA meeting of S3 CSE A and B (2019-2023 Batch)	19.02.2021	Sr. Jisha C.T , Ms. Vidhya S.S , Ms. Asha Baby & Ms. Tintu Devasia
3	PTA Meeting of S8 CSE (2017-2021 Batch)	20.05.2021	Ms. Ancy K Sunny, Ms. Divya K & Ms. Achala Prasad

4	PTA Meeting of S6 CSE (2018-2022 Batch)	21.05.2021	Ms Neena V V & Ms Keerthijith P
5	PTA meeting of S7 CSE (2017-2021 Batch)	22.07.2020	Ms. Ancy K Sunny, Ms. Divya K & Ms. Achala Prasad
6	PTA Meeting of S2 CSE A, S2 CSE B, S2 CSE C, S2 ADS (2020-2024Batch) and S4 CSE A, S4 CSE B (2019-2023 Batch)	07.09.2021	Ms. Divya B, Ms. Akhila Mathew, Mr. Abdul Latheef & Ms. Derroll David
7	PTA meeting of S7 CSE (2017-2021 Batch)	27.10.2021	Ms. Ancy K Sunny, Ms. Divya K & Ms. Achala Prasad

### **ADDITIONAL FACILITY & BEST PRACTICES**

- Ms. Derroll David contributed as a Primary Evaluator in Toycathon 2021.
- Ms. Derroll David successfully passed App Development with Swift Train The Trainer (T3) and is an Apple Certified Trainer.
- Mr. Ajvad Haneef, Assistant Professor, got provisionally eligible for Ph.D under Kerala Technological University. Selection was based on the examination held on 15.02.2020 and interview.
- Ms. Vidhya S S has completed a 28 days course in coursera "From Data to Insights with Google Cloud" for the period of 12.10.2020 - 10.11.2020.
- Ms. Divya B Attended Google cloud 3 days online Training for the period of 15.09.2020-17.09.2020 and completed online non-credit courses "Elastic Google Cloud Infrastructure: Scaling and Automation" on 08.10.2020, "Essential Google Cloud Infrastructure: Core Services" on 05.10.2020, Essential Google Cloud Infrastructure: Foundation" on 03.10.2020, "Google Cloud Platform Fundamentals: Core Infrastructure" on 29.09.2020, "Coursera Administrator Training" on 04.04.2020, "Programming for Everybody (Getting Started with Python)" on 06.11.2020, "Machine Learning for All" on 25.07.2020 and "Cloud Computing Basics (Cloud 101)" authorized by Google Cloud and offered through Coursera.

## **Report on Teachers' Participation in Faculty Development Programmes (FDP) in the academic year 2020-21**

During the academic year 2020-21, faculty members from our institution actively participated in various FDPs and workshops aimed at enhancing their knowledge and skills in different areas of engineering and education. Following is an exhaustive summary of the events in which our faculty members actively participated:

- 1. Two Weeks Online Workshop on “Preparing Research Proposals” :**
  - Participants: Dr. Glan Devdhas (Professor)
  - Date: 11 February to 24 February, 2021.
- 2. FDP on Machine Learning & Optimization :**
  - Participants: Dr. Glan Devdhas (Professor)
  - Date: 22.02.2021-27.02.2021
- 3. STTP on “Innovation, Novelty and Intellectual Property Rights” :**
  - Participants: Dr. Glan Devdhas (Professor)
  - Date: 28.08.2020-01.09.2020
- 4. FDP on Recent Trends in Electrical Engineering :**
  - Participants: Dr. Glan Devdhas (Professor)
  - Date: 08.06.2020-12.06.2020
- 5. AICTE sponsored six days induction programme on Recent advancement in HV Engineering :**
  - Participants: Dr. Sampath kumar (Professor)
  - Date: 03/03/2021- 09/03/2021
- 6. FDP on IoT based Autonomous Robot Design, Organized by Dept. of EIE, VJEC :**
  - Participants: Dr. Sampath kumar (Professor), Shamy A, Reshma K V,Dhanoj Mohan, Shinu M M, Jinsa Mathew (Assistant Professors)
  - Date: 28.04.2021-30.04.2021
- 7. FDP on "Frontiers of research in Thermal science" :**
  - Participants: Niyas K M, Shaminmuth K K, Midhun Mukundan M K, Shaji George, Jerrin Saji,Ms Anitta Jose, Gokulnath R (Assistant Professors), Cdr Raju K Kuriakose (Associate Professor), S Christopher Ezhil Singh, Dr Biju Mathew, Dr BennyJoseph(Professors),
  - Date: 27.08.2020-03.09.2020
- 8. ATAL FDP on control system and sensor technology :**
  - Participants: Shamy A(Assistant Professors)
  - Date: 21/09/2020- 25/09/2020

**9. FDP on Machine learning with its mathematical foundations :**

- Participants: Reshma K V, Shinu M M, Derroll David, Anisha Joseph, Tintu Devasia (Assistant Professors), Neena V V (Associate Professor), Jeethu V. Devasia, Manoj V. Thomas (Professor)
- Date: 2/03/2021-6/03/2021

**10. FDP on High performance computing :**

- Participants: Reshma K V (Assistant Professor)
- Date: 22/03/2021-26/03/2021

**11. FDP on Opportunities and challenges of integrating renewable energy in smart grid :**

- Participants: Reshma K V, Dhanoj Mohan, Jinsa Mathew (Assistant Professors), Dr.R.SENTHILKUMAR (Professor)
- Date: 15/03/2021-19/03/2021

**12. Seminar on Enhancing quality teaching strategies through outcome based education :**

- Participants: Reshma K V, Shinu M M (Assistant Professors)
- Date: 02/3/2021-3/03/2021

**13. FDP on “Recent Trends in Circuits and Communication (RTCC)” Department of Electronics & Communication Engineering, Jaipur Engineering College & Research Center:**

- Participants: Dhanoj Mohan, Shinu M M, Jinsa Mathew (Assistant Professor)s
- Date: 19/02/2021-23/02/2021

**14. IETE sponsored FDP on Python for Engineers :**

- Participants: Dhanoj Mohan, Grace John M, Sivaprasad PV (Assistant Professor)Reema Mathew A (Associate Professor)
- Date: 26.04.2021-30.04.2021

**15. AICTE Sponsored Online Short Term Training Program on “INTRODUCTION TO ELECTRIC VEHICLES; OPPORTUNITIES AND CHALLENGES - CASE STUDY” organized by Department of Electrical and Electronics Engineering of SAINTGITS College of Engineering :**

- Participants: Shinu M M (Assistant Professor)
- Date: 03/08/2020-28/08/2020

**16. FDP on Artificial Intelligence using MATLAB :**

- Participants: Shinu M M (Assistant Professor)
- Date: 25/02/2021-27/02/2021

**17. FDP on recent trends in product development organized by the department of mechanical engineering, jyothi engineering college, thrissur :**

- Participants: Jinsa Mathew (Assistant Professor)
- Date: 10/08/2020-14/08/2020

**18. FDP on Advances in Construction Technology :**

- Participants: Peter Jobe, Rojin P, Saneesh K, Anuragi P, Aiswarya S, Hridya P, Indu T, Sreejith K, Anitha Babu, Ashwin Joy, Logi N Bobby, Abhijath P, Athira

Rajedran, Maqsooda JHS, Rinnet Francis, Margaret Abraham, Vinaya S M (Assistant Professor), Sigi Thomas (Associate Professor)

- Date: 02/02/2021 - 06/02/2021

**19. FDP on Innovation in Civil Engineering and Concrete Technology :**

- Participants: Rojin P, Saneesh K, Anuragi P, Hridya P, Indu T, Anitha Babu, Ashwin Joy, Logi N Bobby, Abhijath P, Athira Rajedran, Maqsooda JHS, Rinnet Francis, Margaret Abraham, Vinaya S M, Sreejith K (Assistant Professors), Sigi Thomas (Associate Professor)
- Date: 13/07/2020 - 17/07/2024

**20. FDP on "Data Science and Artificial Intelligence" :**

- Participants: Jeethu V. Devasia (Professor), Neena V V (Associate Professor), Anisha Joseph, Tintu Devasia (Assistant Professors)
- Date: 08/02/2021 to 12/02/2021

**21. ATAL FDP on Blended Learning and Flipped Classroom :**

- Participants: Jeethu V. Devasia (Professor)
- Date: 10-08-2020

**22. FDP on " Block Chain" :**

- Participants: Manoj V. Thomas (Professor)
- Date: 19/10/2020 to 23/10/2020

**23. AICTE Training and Learning (ATAL) Academy Sponsored one Week FDP on "ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND GENOMICS" :**

- Participants: Abdul Latheef (Associate Professor)
- Date: 31-08-2020 to 04-09-2020

**24. AICTE Training And Learning (ATAL) Programme on Online Teaching and Learning Technologies :**

- Participants: Abdul Latheef (Associate Professor)
- Date: 17-08-2020

**25. Online FDP on "Advancements in IoT" :**

- Participants: Derroll David (Assistant Professor)
- Date: 08-06-2020

**26. STTP on "Big Data and Security" :**

- Participants: Tintu Devasia (Assistant Professor)
- Date: 22/03/21 to 26/03/2021

**27. Faculty Development Program on IoT and Cloud Applications :**

- Participants: Tintu Devasia (Assistant Professor)
- Date: 06-07-2020

**28. 4 days FDP on " Emerging Research Trends in VLSI, MEMS and Signal Processing" :**

- Participants: Divya K (Assistant Professor)
- Date: 10-08-2020

**29. Workshop on "Artificial Intelligence Creating the Future" and "Exploring Machine Learning Techniques in Data Mining" :**

- Participants: Divya K(Assistant Professor)
- Date: 20/05/2021 to 21/05/2021

**30. FDP on IoT and Data Science :**

- Participants: Adarsh K S (Assistant Professor) Jayesh George M (Associate Professor)
- Date: 28/12/2020 - 02/01/2021

**30. FDP on the role of engineers in making India a five trillion dollar economy:**

- Participants: Anto Sahaya Dhas (Professor)
- Date: 22/6/20-26/06/20

**31. FDP on Machine Learning and IoT Technologies for Environmental Issues:**

- Participants: Anto Sahaya Dhas (Professor)
- Date: 26/10/2020 - 31/10/2020

**32. FDP on Grid integration techniques for Electric Vehicle: Challenges, opportunities, G2V and V2G applications:**

- Participants: Anto Sahaya Dhas (Professor)
- Date: 14/09/2020 - 19/09/2020

**33. FDP on Essentials for Blended Learning:**

- Participants: Bindu Sebastian (Associate Professor)
- Date: 01/07/2020 - 05/02/2020

**34. FDP on Digital Circuit Design Using Verilog HDL:**

- Participants: Bindu Sebastian (Associate Professor) Roshini T V (Professor)
- Date: 07/09/2020 - 12/09/2020

**35. FDP on Artificial Intelligence :**

- Participants: Bindu Sebastian, Vinod J Thomas (Associate Professors)
- Date: 22/02/2021 - 26/02/2021

**36. FDP on Fine Tune Your Research Planning:**

- Participants: Grace John M (Assistant Professor)
- Date: 22/03/2021 - 26/03/2021

**37. FDP on Moral, Values, Attitude and Behaviour Science:**

- Participants: Grace John M (Assistant Professor)
- Date: 08/02/2021 - 13/02/2021

**38. FDP on Application of Artificial Intelligence Technique in Overcoming the Challenges of Healthcare Industry :**

- Participants: Grace John M (Assistant Professor)
- Date: 04/01/2021 - 09/01/2021

**39. FDP on "Trends and Technologies in Antenna Design and its Research Scopes :**

- Participants: Dr. Jayesh George M (Associate Professor)
- Date: 10/08/2020 - 16/08/2020

**40. FDP on Artificial Intelligence:**

- Participants: Jithin James (Assistant Professor)
- Date: 14/09/2020 - 18/09/2020

**41. FDP on Internet of things for healthcare:**

- Participants: Jithin James (Assistant Professor)
- Date: 24/08/2020 - 29/08/2020

**42. FDP on Machine learning with its mathematical foundations :**

- Participants: Jithin James, Lekshmy S (Assistant Professor) Reema Mathew A, Vinod J Thomas (Associate Professor)
- Date: 02/03/2021 - 06/03/2021

**43. FDP on Data analytic in Biomedical engineering:**

- Participants: Lekshmy S (Assistant Professor)
- Date: 23/11/2020 - 28/11/2020

**44. FDP on Scope of Electronics Engineers in Post Pandemic Situation:**

- Participants: Manoj K C (Associate Professor)
- Date: 13/08/2020 - 15/08/2020

**45. FDP on Scope of Mathematics For Data Science:**

- Participants: Manoj K C (Associate Professor)
- Date: 10/08/2020 - 14/08/2020

**46. FDP on Data Analytics in Biomedical Engineering:**

- Participants: Manoj K C (Associate Professor) Shimna P K, Sudarshana Vijayan (Assistant Professors)
- Date: 14/12/2020 - 19/12/2020

**46. FDP on Internet Of Things:**

- Participants: Manoj K C (Associate Professor) Shimna P K, Sudarshana Vijayan (Assistant Professors), Sibi Joseph (Technician)
- Date: 11/01/2021 - 15/01/2021

**47. FDP on Python Programming for Computer Vision and DataScience:**

- Participants: Manoj K C (Associate Professor) Shimna P K, Sudarshana Vijayan (Assistant Professors)
- Date: 28/12/2020 - 02/01/2021

**48. FDP on Internet of Things (IoT):**

- Participants: Reema Mathew A (Associate Professor)
- Date: 01/02/2021 - 05/02/2021

**49. FDP on Machine Learning On Recent Trends & Application Phase-I:**

- Participants: Reema Mathew A (Associate Professor)
- Date: 10/05/2021 - 15/05/2021

**50. FDP on Artificial Intelligence and Machine Learning:**

- Participants: Roshini T V (Professor)
- Date: 08/06/2020 - 12/06/2020

**51. FDP on Machine Learning and Deep Learning:**

- Participants: Vinod J Thomas (Associate Professor)
- Date: 27/05/2020 - 31/05/2020

**52. FDP on Electric vehicles:Exploring Inside the Box:**

- Participants: Laly James (Associate Professor) AMRUTHA MARIA MATHEW(Assistant Professor)
- Date: 08 - 12 June 2020

**53. FDP on Smart Technologies in Energy Scenario:**

- Participants: G.JUSTIN SUNIL DHAS (Professor)
- Date: 10th – 14th August, 2020

**54. FDP on Recent Development in Electrical Engineering:**

- Participants: G.JUSTIN SUNIL DHAS (Professor)
- Date: 10th – 14th August, 2020

**55. FDP on Research Challenges in Power Electronics and Power systems:**

- Participants: R.SENTHILKUMAR (Professor)
- Date: 05/08/2020 to 07/08/2020

**56. FDP on Research Power Electronics Application in Smart Grid and Electric Vehicle:**

- Participants: TINTU GEORGE T (Assistant Professor)
- Date: 3-7 August 2020

**57. FDP on Introduction to Electric Vehicle:Opportunities and Challenges, Case study:**

- Participants: TINTU GEORGE T (Assistant Professor)
- Date: 3-8 OAugust 2020

**58. FDP on Advanced Power Electronic Converters for Electric Vehicle Powertrain and Smart-Grid:**

- Participants: TINTU GEORGE T (Assistant Professor)
- Date: 23-28 Nov 2020

**59. FDP on Research initiatives in Renewable energy systems:**

- Participants: TEENA GEORGE (Assistant Professor)
- Date: 21/07/2020 to 25/07/2020

**60. FDP on Funding Projects, Consultancies and Book Writing:**

- Participants: TEENA GEORGE (Assistant Professor)
- Date: 08/07/2020

**61. FDP on Power System Restructuring & Renewable Energy Integration (PSRREI):**

- Participants: PRABIN JAMES (Assistant Professor)
- Date: 13thJuly 2020 to 17th July 2020

**62. FDP on Power "Recent Trends in Electrical Engineering : A Research Perspective - 2020":**



- Participants: PRABIN JAMES (Assistant Professor)
- Date: 20.07.20 to 26.07.20

**63. FDP on Power Power Electronic Application in Smart Grid Electric Vehicles:**

- Participants: TINU FRANCIS (Assistant Professor)
- Date: 03.08.2020 - 07.08.2020

**64. FDP on “Biomedical Instrumentation-Research Challenges”:**

- Participants: TINU FRANCIS (Assistant Professor)
- Date: 22.02.2021 to 26.02.2021

**65. FDP on Power Electronic Applications to Renewable energy systems and Energy storage system :**

- Participants: SHELMA GEORGE (Assistant Professor)
- Date: July 06-10, 2020

**66. FDP on Essentials fro Blended Learning :**

- Participants: SHELMA GEORGE (Assistant Professor)
- Date: 13th July 2020 to 20th July 2020

**67. FDP on Research opportunities in Smart Grid :**

- Participants: JYOTHI JOSEPH (Assistant Professor)
- Date: 22-27 March 2021

**68. FDP on ELECTRIC VEHICLES :**

- Participants: JYOTHI JOSEPH (Assistant Professor)
- Date: 29 MARCH - 2 APRIL 2021

**69. FDP on Real time applications of power electronics - Research scope and challenges :**

- Participants: INDULEKHA K M (Assistant Professor)
- Date: 27/07/2020 to 31/07/2020

**70. FDP on Upskilling for the future :technical Innovations and Research Opportunities in Power Engineering :**

- Participants: INDULEKHA K M (Assistant Professor)
- Date: 10/08/2020 to 14/08/2020

**71. FDP on Cryogenics & Superconductivity :**

- Participants: Chistopher E Singh (Professor)
- Date: 21-26 September 2020

**72. FDP on Online Teaching and Learning :**

- Participants: Chistopher E Singh (Professor)
- Date: 18-29 July

**73. FDP on Advances in Machining and Manufacturing :**

- Participants: Chistopher E Singh (Professor)
- Date: 24-29 May 2021

**74. FDP on Envision Towards Particle Science and Biodiesel Production :**

- Participants: P Sridharan (Professor)
- Date: 27-28 July 2020

**75. FDP on Renewable Energy System Design and Development :**

- Participants: P Sridharan (Professor)
- Date: 23-24 July 2020

**76. FDP on Enhancing Quality Teaching Strategies :**

- Participants: P Sridharan (Professor)
- Date: 2-3 March 2021

**77. FDP on Emerging Trends in VLSI Design :**

- Participants: P Sridharan (Professor)
- Date: 21-26 September 2020

**78. FDP on Foundation of CFD :**

- Participants: Mr.Ryne P M (Associate Professor)
- Date: Sept-Nov 2020

**79. FDP on Frontier's of Research in Thermal Sciences :**

- Participants: Mr.Ryne P M (Associate Professor) Mejo Francis, Appu C Kurian, Aji Augustine, Johny PJoseph, Alex George (Assistant Professors)
- Date: 27 Aug - 09 Sept 2020

**80. FDP on Bio Conversion Technologies and Start-up Opportunities :**

- Participants: Appu C Kurian (Assistant Professor)
- Date: 14-18 June 2021

**81. FDP on MATLAB Programming for Numerical Computation :**

- Participants: Dilin Dinesh (Assistant Professor)
- Date: Jan- March 2021

**82. FDP on Recent Advances in Tribology and Surface Engineering :**

- Participants: Aji Augustine (Assistant Professor)
- Date: 12 - 17 October 2020

**83. FDP on Emerging Fields in Thermal Engineering :**

- Participants: Aji Augustine (Assistant Professor)
- Date: 13 - 15 August 2020

**84. FDP on Research Methodology :**

- Participants: Aji Augustine (Assistant Professor)
- Date: 02 - 04 June 2021

**85. FDP on Technical Convergence in Engineering Energy and Sustainability :**

- Participants: Arunlal M P (Assistant Professor)
- Date: 18-19 July 2020

**86. FDP on Green Technology and Sustainability Engineering :**

- Participants: Shijimol K T (Technician)
- Date: 11/01/2021 -15/01/2021

**87. FDP on Health Management:**

- Participants: Shijimol K T (Technician)
- Date: 04/01/2021 - 08/01/2021

**88. FDP on Data Science:**

- Participants: Thomas Jacob (Technician)
- Date: 19/01/2021 - 23/01/2021

**89. FDP on Artificial Intelligence:**

- Participants: Thomas Jacob (Technician)
- Date: 04/01/2021 -08/01/2021

**90. FDP on Internet of Things:**

- Participants: Lithin Mathew (Technician)
- Date: 02/02/2021 - 06/02/2021

**91. FDP on Cyber Security:**

- Participants: Timmy Philip (Technician)
- Date: 01/02/2021 - 05/02/2021

**92. FDP on Photography:**

- Participants: Timmy Philip (Technician)
- Date: 09/02/2021 - 13/02/2021

**93. FDP on Cyber Security:**

- Participants: Bindu Sebastine (Technician)
- Date: 14/12/2020 -18/12/2020

**94. FDP on Waste Technology:**

- Participants: Bindu Sebastine (Technician)
- Date: 27/01/2021 - 31/01/2021
- 

These events provided valuable opportunities for our faculty members to engage in professional development, exchange ideas, and stay updated with the latest trends and technologies in their respective fields.