

VIMAL JYOTHI ENGINEERING COLLEGE

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

ANNUAL REPORT

2022-2023

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 2022-23. 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 2022-23, Vimal Jyothi Engineering College (VJEC) continued its pursuit of academic excellence, securing recognition from the All India Council for Technical Education (AICTE) for offering a substantial 690 seats across diverse engineering branches. Out of the available slots, VJEC admitted 592 students, reflecting its dedication to providing quality education and fostering a vibrant learning environment. Impressively, 143 students from the college found promising placements, underscoring VJEC's commitment to nurturing talent and ensuring valuable career prospects for its graduates. The institution's consistent success in placing students emphasizes VJEC as a premier choice for aspiring engineers, showcasing its unwavering commitment to providing a comprehensive and enriching educational experience.

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 2022-23

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). The Department is accredited by NBA (National Board of Accreditation) in 2022.

ADMISSION

Academic Year	Sanctioned Intake	Actual Intake
<u>2022-23</u>	<u>30</u>	<u>26</u>

RESULT

Academic Year	No: of students Graduated
2022-23	8/20

DEPARTMENTAL ACTIVITIES:

- Department of Electronics and Instrumentation conducted Certified placement training program on “Industrial Automation ” for 25 days, on 26th April 2023.

- Department of Electronics & instrumentation, Vimal Jyothi Engineering College, Kerala, Signed MoU with Srishti Robotics Technologies Pvt Ltd. for development of Engineering Students.
- Department of Electronics & instrumentation, Vimal Jyothi Engineering College, Kerala, Signed MoU with Progressum Edutech Pvt Ltd for development of Engineering Students.
- Department of Electronics & instrumentation Add- on course on Machine Vision and Artificial Intelligence in Robotics in association with Srishti Robotics Technologies Pvt Ltd, from 28th February 2023 to 4th March 2023.
- Department of Electronics & instrumentation successfully conducted an Add-on course on System Design using Arduino in association with Progressum Edutech Pvt Ltd, from 13.3.2023 to 17.3.2023.
- Department of electronics & instrumentation conducted Process Control on 25th February 2023 in association with ISA, ISOI and ISTE.
- INSTRUS 22 the tech- fest of the Electronics & Instrumentation Engineering Department, Vimal Jyothi Engineering College was held as a part of the National level College Tech fest Tantra 22 on 5 th December 2022.
- Department of Electronocs & instrumentation conducted an Alunmi Interaction on 4th February 2023.
- The Department of Electronics & Instrumentation Engineering conducted Third International Conference on Intelligent Computing, Instrumentation And Control Technologies (ICICICT-22) on 11th & 12th August 2022.

FACULTY ACHIEVEMENTS:

- Dr. G Glan Devadhas applied patent on title “ SOLAR ENERGY STORAGE SYSTEM”.
- Dr. G Glan Devadhas were performed as the resource person for the KTU Sponsored Three Duy Faculty Development Program on Research Methodology organized by the Department of Electrical and Electronics Engineering on 19.01 .2023
- Ms. Jinsa Mathew successfully completed the 8 modules of National Initiative for Technical Teachers Training

FACULTY PUBLICATIONS:

- Mr. Shinu M M & Dr. G Glan Devadhas published a paper on “ A Systematic Review on Recent Techniques for the Detection of Multiple Myeloma" in International Conference on Control, Power, Communication and Computing 2022.
- Dr. G Glan Devadhas, Mr. Shinu M M, & Mr. Dhanoj M published a paper on “ Carbon Capture, Utilization and Storage (CCUS) - The Energy source of the future" in International Conference on Control, Power, Communication and Computing 2022.
- Dr. G Glan Devadhas, Mr. Shinu M M, & Mr. Dhanoj M published a paper on “ Graphical User Interface for intelligent automotive with vehicle to vehicle communication and adaptive light controls using image processing and machine learning" in International Conference on Control, Power, Communication and Computing 2022.
- Dr. G Glan Devadhas, Mr. Shinu M M, & Mr. Dhanoj M published a paper on “ DATA DRIVEN MODELLING AND PREDICTION OF RAINFALL " in International Conference on Control, Power, Communication and Computing 2022.

FACULTY PARTICIPATION:

- Ms. Jinsa Mathew, Ms. Shmaya A and Ms. Reshma K V AP EIE, participated 6 day online STTP on AI & Applications- 29th august 2022 to september 3rd organized by at Mariyan Engineering College.
- Ms. Reshma K V, AP EIE, participated online FDP on ‘Advancement of Cyber Security’ organized by Dr. B.C.Roy Engineering College,Durgapur during 22nd August 2022 to 28th August.
- MR. Dhanoj M participated FDP on Artificial Intellegence and Data Science at Royal Engineering College Thrissure, on 18th to 20th January 2023.
- Mr. Sinu MM & Ms. ShamyA A participated 5 day F DP on Medical Image Analysis Using Deep Learning Techniques, at Sahrdaya College of Engineering Thrissure during 23rd to 28th January 2023.
- Mr. Dhanoj M Attended One day workshop on OBE & NBA on 16.01.2023.
- Dr. G Glan Devadhas,HOD EIE, Organized Online Impact Lecture series 2022-2023 Sponsored by MOE’S Innovation Council (MIC), AICTE New Delhi with the Theme: Intellectual Property Rights on 21/07/2022 Aand 30/07/2022.

- Ms. Jinsa Mathew, AP EIE, participated 5 day online FDP on ‘Research Writing & Publishing’ organized by IQAC - Vimal Jyothi Institute of Management and Research during 18th July to 22nd July 2022.
- Ms. Reshma K V, AP EIE, participated online FDP on ‘Advancement of Cyber Security’ organized by Dr. B.C.Roy Engineering College,Durgapur during 22nd August to 28th August.
- Dr. G Glan Devadhas, Ms. Reshma K V, Ms. Shamy A, Mr. Dhanoj M, Mr. Shinu M M & Ms. Jinsa Mathew attended "5 Days FDP on OBE philosophy and Practice “ from 5.5.23 to 9.5.23 organized by the Internal Quality Assurance Cell, Vimal Jyothi, Engineering College, Chemperi, Kannur
- Mr. Dhanoj M attended - Virtual Training on Sustainable Development Goals - UN Agenda 2030 on 31.05.2023

FUND SANCTIONED:

- Rs.10000/- for student project on the topic “ Automatic Pollution Detection in Vehicle” by IRPS
- Rs. 13000/- for student project on the topic “ A smart Driver Monitoring system Using Rasperi PI” by IRPS

STUDENTS ACHIEVEMENTS:

- Mr. Adwaith Pradeep C, Ms. Anamika C, Mr. Jibin P B, Mr. Joyal Joseph & Ms. Veda KC, S7 AEI- Successfully completed NPTEL on Introduction to Industry 4.0 and IOT
- Mr. Aswin J Prasad, & Mr. Justin George- S7 AEI- Successfully completed NPTEL on Introduction to Machine Learning
- Mr. Justine George & Mr. Salvin K Jose – S8 AEI- Successfully Completed one month internship
on Internet of Things at Inker Robotic Solutions Pvt. Ltd. from March 1st, 2023 to March 31st, 2023
- Aljo John, Anjo Mathew, Aswin Thomas, Aswin J Prasad- Selected the project on the topic “ A smart Driver Monitoring system Using Rasperi PI” by IRPS
- Mohammed Raheel, Salvin Jose k, Sreehari T V, Dileep C- - Selected the project on the topic “ Automatic Pollution Detection in Vehicle” by IRPS

STUDENT PLACEMENT:

- Mr. Dileep C, Mr. Justin George, Mr. Muhammed Raheel, Mr. Aljo John & Ms. Anusree k- IPA Pvt Ltd, Bangalore
- Mr. Paulson Edwin Kunnathuparambil- Accenta Education
- Mr. Kashyap K, Mr. Devaprakash, Mr. Aswin J Prasad- Globose System and Solutions
- Mr. Muhammed Raheel-ETA Technology Pvt Ltd

PROFESSIONAL BODY ACTIVITIES:

- Workshop MODERN TOOLS FOR PROCESS CONTROL SYSTEM DESIGN, 25-2-2023

VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

DEPARTMENT OF MECHANICAL ENGINEERING

ANNUAL REPORT 2022-23

ADMISSION AY 22-23 FIRST YEAR

SANCTIONED INTAKE: 60

NO OF STUDENTS ADMITTED: 34

RESULTS 2019-23 BATCH

NO OF STUDENTS REGISTERED: 64

NO OF STUDENTS GRADUATED: 31

DEPARTMENTAL ACHIEVEMENTS:

1. The Department of Mechanical Engineering Program of got NBA Reaccreditation up to 30-06-2026.
2. IEEE Robotics and Automation Society Student's Branch Chapter is started on VJEC in association with department of mechanical engineering. Chapter was inaugurated on 20-09-2022 by Dr. Mini Ulanat, Systems Manager, Cochin University of Science & Technology and Chair, IEEE Kerala Section.
3. IEEE-RAS SBC VJEC under ME Department got a Chapter Initiative grant FBO of Rs 1,22,565.00/- for chapter activities
4. IEEE-RAS SBC VJEC under ME Department got a Seed money of Rs 38205/- for functional activities
5. Designed & developed an electric bike and participated E-bike championship in Galgotia University at Greater Noida from April 14, 2023, to April 18, 2023. The team successfully completed all the rounds including technical inspection, break & acceleration test, off road 7 hill climbing test. The VJEC team Moto verse Secured future vehicle award.
6. ME Department acquired a funding of Rs. 50000/- from Anix Education for the conduct of Tech Fest Mexterious 2K22
7. ME Department acquired a funding of Rs. 50000/- from VJEC for the conduct of Tech Fest Mexterious 2K22
8. ME Department acquired a funding of Rs. 144170/- from VJEC for the SIEP- E Bike Competition
9. Mr. Anoop K R Assistant Professor ME got a fund of Rs. 50000/- from VJEC for the development of Smart Hydro Phonics System

10. Mr. Appu Kurian Assistant Professor ME got a fund of Rs. 50000/- from VJEC for research work of “Tribological Behaviour & Characterisation of Magnesium based nano composites
11. ME Department acquired a funding of Rs 27000/- from KTU FDP Scheme for the FDP-Contemporary breakthroughs in the technologies of industry 4.0. The coordinator for the FDP was Dr. Sreekanth M P (Associate Professor)
12. Mexterious 2K22 the technical fest of the Mechanical engineering department, Vimal Jyothi Engg. College was held as a part of Tantra 22 on 5 th December 2022.
13. ME Department exhibited various innovative automobile projects of ME students under SAE at “Science and technical exhibition, “Texpo22” which was conducted at Govt. Technical High school, Naduvil, on 29th October 2022.
14. The Department of Mechanical Engineering, Vimal Jyothi Engineering College, Chemperi, Kannur, in conjunction with Sree Sankara Vidyapeetam Senior Secondary School, Mattannur, has organized an outreach program as part of a two-day program titled ‘Skill Module Classes for VI-VIII Standard students’ on 28th March 2023 at the Sree Sankara Vidyapeetam Senior Secondary School, Mattannur
15. Patent Application filed on student project “A Compact and Portable Thermoelectric Refrigerator” & got published in the official journal of the patent office
16. Patent Application filed on student project “ A Device, System and Method for Automated Sorting of Waste Materials in Public Places & got published in the official journal of the patent office
17. Indian Army has sent a letter of appreciation for the project work carried out by the following final year Mechanical Engineering students. Mr. Alan Sebastian, Mr. Harishankar MV, Mr. Narayana Prasad V E & Mr. Rithun Hari P. The project was supervised by Dr. P Sridharan, Associate Professor, and Department of Mechanical Engineering

INDUSTRIAL INTERACTIONS: MOUS

1. A Memorandum of Understanding is entered by and between Vimal Jyothi Engineering College, Chemperi, and BIM Labs. The general purpose of this MOU is to facilitate Hands on Knowledge in Building information modelling and revit, Training/ placement assistance in BIM Tools.
2. A Memorandum of Understanding is entered into as of 30th January, 2023, by and between Vimal Jyothi Engineering College, Chemperi, and Skillobotics Edutech Pvt. Ltd. The general purpose of this MOU is to Creating awareness and promoting Robotics education as well as inculcating skills for employability, Robotics training programmes through Industry Expert Sessions, organize joint programmes on relevant/ current technical skills and latest technologies
3. A Memorandum of Understanding is entered into as of 22nd February, 2023, by and between Vimal Jyothi Engineering College, Chemperi, and Garuda Aerospace Pv.t Ltd. The general

purpose of this MOU is to Provide Mutual cooperation in R&D, Training, Service & Maintenance and Advisory role

4. A Memorandum of Understanding is entered into as of 23rd February, 2023, by and between Vimal Jyothi Engineering College, Chemperi, and Sulfex Mattress Co. The general purpose of this MOU is to Provide Practical study of production process and engineering details in return of expert lecture, training for employees, sharing of software facilities and technical consultation for solving problems.

WORKSHOP/SEMINARS/TECHNICAL TALK CONDUCTED:

SI No	Evet Name	Date	Resource Person/Industry
1	Career opportunities in various sectors in the field of mechanical engineering	19-04-2022	Mr. Shywin Thomas, MTTC International LLC
2	Opportunities after engineering through GATE	5/06/2022	Mr. Shankar Jarasandh Wadne Sr. Faculty, ACE Engineering Academy, Hyderabad
2	Developments in Design and Automation for Industry 4.0”	22nd of December 2022	Mr. Vinay S, Manager, Education and Training, Conceptia Software Technologies Pvt. Ltd.

ADD-ON COURSES & TRAININGS ORGANISED:

SI NO	Event Name	Date	Class	Resource Person/Industry/ Content
1	CNC SKILL DEVELOPMENT TRAINING	12th to 26th October 2022	S7 ME	Mr, Shaji George & Mr Biju K J
2	Five-day (30 Hours) Add-on Course on BIM Tools - Revit MEP	31st January to 4 th Feb 2023	S8 ME	BIM Labs Trivandrum/ Revit MEP and an introduction to Inventor
3	Five-day (30 Hours) Add-on Course on BIM Tools - Revit MEP	6 th & 7 th February, 20 th , 21 st & 22 nd March 2023	S6 ME	BIM Labs Trivandrum/ Revit MEP and an introduction to Inventor
4	Five-day (30 Hours) Add-on course on Industrial Robotics and Internet of Things	13 th to 17 th Feb 2023	S4 ME	Skillobotics Edutech Pvt. Ltd. Pune

FDPs/STTPs ORGANISED:

SI No	Event Name	Date
1	One week online Hands-on Research Oriented Workshop on “Design of Experiments”	29th August 2022 to 03rd September 2022.
2	KTU Sponsored three days online Faculty Development Program (FDP) entitled	22 – 24, August 2022

	“Contemporary Breakthroughs in the Technologies of Industry 4.0	
3	Guest lecture on Fusion 360-by BIM Lab Global	19th of September 2022

PAPER PUBLICATIONS/PRESENTATIONS:

SL No	Authors	Title of Paper	Publication
1	Dr. Jithin E V	International Journal of Hydrogen Energy". Impact Factor: 7.139	Elsevier
2	Dr. Sridharan P	A Review on Power Generation Enhancements in a Pumped Storage Powerhouse by Using Appropriate Guide Vane Sealing Material	Journal of Alternate Energy Sources and Technologies Volume 13 Issue 2 3.
3	Dr. Jithin E. V	Impingement Heating Characteristics of Domestic Gas Burner Flames	Heat and mass transfer"; Publisher: Springe
4	Dr. S. Christopher Ezhil Singh, Dr. P.Sridharan	Compression behaviour Mg-Zn-xSr-HA hybrid nanocomposites through powder metallurgy method	Science Direct https://doi.org/10.1016/j.matpr.2022.12.133
5	Dr. S. Christopher Ezhil Singh	Tribological and mechanical properties Mg-Zn-xSr-HA hybrid nanocomposites prepared by powder metallurgy technique	Science Direct https://doi.org/10.1016/j.matpr.2022.12.133
6	. Dr. S.Christopher Ezhil Singh	Wind energy conversion system-based PMSG for maximum power tracking and grid synchronization using adaptive fuzzy logic control	: Journal of Applied Research and Technology.
7	Dr. S.Christopher Ezhil Singh	Artificial Neural Network on Tool Condition Monitoring in Hard Turning of AISI4140 Steel using Carbide Tool	Mathematical Problems in Engineering, Hindawi., Volume 2023, Article ID 2139906
8	Mr. Mejo Francis, Mr.Jerin Saji	A Compact and Portable Thermoelectric Refrigerator	official journal of the patent office
9	Dr. Sreekanth M P, Mr. Gokulnath R,	A Device, System and Method for Automated Sorting of Waste Materials	official journal of the patent office
10	Dr P Sridharan	Customer's Perception towards Services of the Selected Banking Sector in South Indian District	in International Journal of Scientific Research in Engineering and Management (IJSREM)
11	Dr P Sridharan	Power line Voltage Sag Mitigation by Dynamic Voltage Restorer using ANN optimization Technique Approach	International Journal of Scientific Research in Engineering and Management (IJSREM).

MEETINGS ORGANISED

SL NO	Name of meeting	Date
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1	The Department Advisory Board (DAB: Chief Guest Mr.Muhammed Kunjhe (Director Sulfex Mattress Co.)	23/02/2023 at 02.30pm
2	The Programme Assessment and Quality Improvement Committee (PAQIC) meeting	22nd February 2023
3	PTA meeting of batches	S3 ME -02-11-2022, S7 ME -03-11-2022 and S5 ME -10-11-2022

FDPS ATTENDED

<u>Sl No</u>	<u>FDP Name</u>	<u>Participants</u>	<u>Date</u>
1	Three Days online FDP on "Contemporary Breakthroughs in the Technologies of Industry 4.0"	Mr. Arunlal M P, Mr. Gokulnath R, Mr. Ryne P.M, Mr. Rameshan K P, Mr. Ramprasidh, Mr. Midhun Mukundan M K, Mr. Shaminmuth K K, Mr. Aji Augustine, Mr. Shaji George & Mr. Mejo M Francis	22 -24, August 2022.
2	"One-week online Hands-on Research Oriented workshop on Design of Experiments	Mr. Arunlal M P, Mr. Gokulnath R, Mr. Ryne P.M, Mr. Rameshan K P, Mr. Ramprasidh, Mr. Midhun Mukundan M K, Mr. Shaminmuth K K, Mr. Aji Augustine, Mr. Shaji George. Dr Jithin E V, Mr. Niyas K M, Mr Appu Kurian & Mr. Mejo M Francis	25 August 2022 to 01 September 2022.
3	Foundation Level of Innovation Ambassador (IA) Online Training	Dr. Sreekanth MP	30, August 2022
4	"The importance of outcome based education in a modern educational setup"	Mr. Gokulnath R	21st & 22nd September 2022
5	5 days online FDP on Cognitive Skills, Design, and Critical Thinking	Mr. Aji Augustine	(Sep19-23).
6	"Applications of Nanotechnology" organized by KMEA College	Mr. Appu Kurian	6 th , 7 th , 8 th Feb 2023

FACULTY ACHIEVEMENTS:

1. Dr. S Christopher Ezhil Singh (Professor, ME, VJEC) delivered a technical talk on "Mechanical Properties of Magnesium Based Alloys on Bio-implants", as a resource person in National Level Online Faculty Development Program on "Current Trends and Innovations in Biological Sciences", at Chettinad Academy of Research and Education on 06-09-2022.

2. Dr. P Sridharn , Dr. Sreekanth M P, Mr. Mejo M Francis and Mr. Appu Kurian acquired IAENG (International Association of Engineers) & IEEE (IEEE Entrepreneurship Exchange) membership

3. Dr. Christopher Ezhil Sigh Reviewed a paper in 'Archives of Civil and Mechanical Engineering' titled: An experimental determination and accurate prediction for rheological behavior of Al₂O₃-MWCNT (70:30) / SAE40 engine oil hybrid non-Newtonian nano-lubricants for applications in internal combustion engines
4. Dr. Sreekanth M P, Associate Professor, ME, reviewed for Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture (SAGE)
5. Dr. Sreekanth M P Associate Professor, ME, reviewed a paper for Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture (SAGE Journals) in July 2023
6. Dr. S. Christopher Ezhil Singh & Dr. P Sridharn acquired IEEE Robotics and Automation Society membership
7. One-day workshop on Advancing Modern Teaching and Learning Methodologies & Quotes using Adobe Express was conducted by Mr. Shaminmuth, Assistant Professor, Mechanical engineering department on 25th March 2023 at VJEC
8. Dr. Sridharan P (Professor), Dr. Christopher Ezhil Singh (Professor), and Dr. Sreekanth M P (Associate Professor) of mechanical engineering at Vimaljyothi Engineering College are approved Research Supervisors of KTU University from Jun 2023 onwards, as approved vide university Order No. U.O.No. 1903/2021/KTU
9. Dr. Sreekanth M P attended an Online NPTEL Workshop on "Learning Innovation from Nature: Introduction to Biomimicry" organized by IIT, Madras on 15, July 2023.
10. Mr. Gokulnath R, Assistant Profesor, Department of Mechanical Engineering has participated in the Impact Lecture series 2022-2023 on "Idea Generation Techniques for Entrepreneurs" organized by the Institute Innovation Cell, on 21st July 2022.
11. Mr. Biju K J (Lab staff, ME) successfully completed PDFDS (professional diploma in Fiber Optics & Digital Security System) Diploma from CCEK -Kerala Govt.
12. Mr.Mejo M Francis & Mr Appu Kurian Assistant Professor, Department of Mechanical Engineering, VJEC, got admission for PhD in Karunya University Coimbatore
13. MR. GOKULNATH R & MR. JOSY JAMES Assistant Professor, Department of Mechanical Engineering, VJEC, got admission for PhD, in NIT Calicut

STUDENTS ACHIEVEMENTS:

1. Mr.Ajith Johny, Mr.Gokul P V, Mr.Aswin M, Mr.Jyothis Prakash & Mlibin Shaji acquired Minor Degree in Civil Engineering
2. Mr.Vinshith V V, Mr.Joel Mathew, Mr.Alan Kuriakose, Mr. Abhinav K T, Mr. Ajnas A K, Mr. Alen Moby, Mr. Benedict & Mr. Alan Mathew acquired Minor Degree in Electrical Engineering
3. The Project titled "Tribological behavior and characterization of magnesium based nano composites" done by Sayanth sasindran,Abhiram Suresh,Rithin Manu. Sourabh Sugathan got selection for IRPS funding

4. The Project titled “Design and development of smart cradle done by Abhinav KT,Albin Abraham, Joyal Mathew ,Vyshakh M got selection for IRPS funding
5. Indian Army has sent a letter of appreciation for the project work carried out by the following final year Mechanical Engineering students. Mr. Alan Sebastian, Mr. Harishankar MV, Mr. Narayana Prasad V E & Mr. Rithun Hari P. The project was supervised by Dr. P Sridharan, Associate Professor, and Department of Mechanical Engineering
6. S2 ME students visited "Snehabhavan", an old age home situated at Thirumeni in Kannur District on 20th May 2022 as part of the "Charity Pilgrim 2022".
7. Mr. Vijay Krishna (S8 ME) acquired gold medal in KTU Intercollegiate Karate Championship (22-23)
8. Mr.Milan S Chalil (S8 ME) acquired third prize for the Javelin Throw in KTU Intercollegiate Athletic Meet (22-23)

PROFESSIONAL BODY ACTIVITIES:

1. The SAE Club of the Mechanical Engineering Department, VJEC designed & developed an electric bike and participated E-bike championship in Noida from April 14, 2023, to April 18, 2023
2. Technical Talk on Current trends in Computer & Communication Technologies by Dr. Mini Ulanat, Systems Manager, Cochin University of Science & Technology and Chair, IEEE Kerala Section. On 20th Sep 2022 in connection with inauguration of IEEE Robotics and Automation Society Student’s Branch Chapter VJEC
3. Workshop on "Robotic Control System" was held on 04th December 2022 at 10.00 AM to 03.00 pm, organized by SBC03711F - Vimal Jyothi Engineering College - Kannur, RA24, for IEEE members and Non-members of IEEE from SBC03711F Members.
4. IEEE RAS VJEC coordinated a Webinar on multi robot systems, by Dr.Lucia Pallottino, Associate Professor, University of Di Pisa, Italy On 4th of Nov 2022,
5. IEEE RAS VJEC coordinated Technical Talk on "The role of energy and dissipation in robotics" on 9th Nov 2022 by Dr.Pablo Borja Rosales, Professor University of Plymouth, UK.
6. IEEE RAS SBC 25th to 27th February 2023, Mechanical Engineering Department, VJEC Kannur organized a three-day workshop on Introduction to Arduino. The workshop aimed to introduce the basics of Arduino, a popular open-source electronics platform, to the participants
7. On February 28, 2023, the IEEE RAS SBC, VJEC Kannur organized a technical talk in honor of National Science Day for the sixth-semester mechanical students

ME PLACEMENTS:

Sl No	Name	Reg No	Year	Company Name	Annual Package
1	ABHIJITH K P	VML19ME001	2023	TCS	3.60
2	Sourav Sajeevan	VML19ME055	2023	Accenta Education	1.80
3	Albin Abraham	VML19ME018	2023	Accenta Education	1.80
4	Ajnas A K	VML19ME010	2023	IPA INDIA PVT. LTD.	2.16
5	Sayanth Sasindran	VML19ME052	2023	IPA INDIA PVT. LTD.	2.16
6	JEZNEEL JIJU ABRAHAM	VML19ME036	2023	IPA INDIA PVT. LTD.	2.16
7	Ben Johns Philip	VML19ME030	2023	Bharat Benz	1.80
8	Akash P	VML19ME013	2023	PRAKASH GROUP	1.80
9	Akash P P	VML19ME014	2023	PRAKASH GROUP	1.80
10	Alen Moby	VML19ME019	2023	PRAKASH GROUP	1.80
11	Anand K M	VML19ME022	2023	PRAKASH GROUP	1.80
12	Aswin M	VML19ME028	2023	PRAKASH GROUP	1.80
13	Gokul P V	VML19ME035	2023	PRAKASH GROUP	1.80
14	Jyothis Prakash K	VML19ME039	2023	PRAKASH GROUP	1.80
15	Ulsav Ullas	VML19ME058	2023	PRAKASH GROUP	1.80
16	Vinshith V V	VML19ME061	2023	PRAKASH GROUP	1.80
17	Vyshakh M	VML19ME065	2023	PRAKASH GROUP	1.80
18	AJITH JOHNY	VML19ME009	2023	TECHNOLOGICS	2.00
19	Benedict J Sebastian	VML19ME029	2023	QSPIDERS	3.00

Annual Report

Dept.Of ECE

Academic Year:2022-23

Department of Electronics & Communication Engineering

Department of Electronics and Communication Engineering was established in 2002 with an intake of 60 students in B.Tech programme. The department currently offers B.Tech Programme in Electronics and Communication Engineering with an intake of 60 students.

One of the notable achievements of the department is its accreditation by the National Board of Accreditation (NBA) for the period from 2022 to 2025. This accreditation is a testament to the department's commitment to maintaining high educational standards and continuously improving its programs.

The primary mission of the Department of ECE is to provide quality education in the field of Electronics and Communication Engineering. This includes imparting both theoretical knowledge and practical skills to students. Moreover, the department places significant emphasis on instilling professional and ethical responsibilities in its students, recognizing the importance of these qualities in the engineering profession.

In addition to academic and technical education, the department is dedicated to training students in essential life skills necessary for their career development. This holistic approach ensures that graduates are well-prepared not only in technical knowledge but also in soft skills, making them well-rounded professionals.

The department takes pride in its excellent infrastructure, which includes state-of-the-art laboratories and facilities. These well-equipped labs provide students with hands-on experience and the opportunity to apply their theoretical knowledge in

practical settings. This practical exposure is invaluable in preparing students for real-world challenges in the field of Electronics and Communication Engineering.

A key strength of the department is its full-fledged faculty team. The faculty members are experienced, dedicated, and passionate about teaching and guiding students. Their expertise in their respective fields contributes significantly to the quality of education provided by the department.

Over the years, the Department of ECE has consistently demonstrated rapid progress. Its commitment to excellence, combined with its dedication to students' overall development, has earned it a reputation as one of the premier departments within Vimal Jyothi Engineering College. This recognition reflects its contribution to the college's academic and research endeavors.

The Department of Electronics and Communication Engineering stands out for its commitment to quality education, ethical values, and holistic development of its students. Its accreditation by the NBA, excellent infrastructure, and dedicated faculty underscore its position as a leading department within the college.

The total student's strength in this academic year

Students Batch	No of Students Admitted
Final Year (2019-23 Batch)	61
Third Year(2020-24 Batch)	52
Second Year(2021-25 Batch)	54
First Year (2022-26 Batch)	49
Total No of Students	216

1.Details of Faculty members

Sl No	Name	Designation	Qualification
1.	Dr. ROSHINI T V	Professor & Dean Academics	Ph.D
2.	Dr. ANTO SAHAYA DHAS	Professor & HOD	Ph.D
3.	Dr. JAYESH GEORGE	Associate Professor	Ph.D
4.	JERRIN YOMAS	Associate professor	M.Tech
5.	VINOD J. THOMAS	Associate professor	M.Tech
6.	BINDU SEBASTIAN	Associate professor	M.Tech
7.	MANOJ K.C	Associate professor	M.Tech
8.	ADARSH K.S	Assistant professor	M.Tech
9.	SHIMNA P.K	Assistant professor	M.Tech
10.	LEKSHMY S	Assistant professor	M.Tech
11.	BINIL KUMAR	Assistant professor	M.Tech
12.	GRACE JOHN	Assistant professor	M.Tech
13.	ANUSHA CHACKO	Assistant professor	M.Tech
14.	ANN MATHEW	Assistant professor	M.Tech
15.	SUDHARSANA VIJAYAN	Assistant professor	M.Tech

2. Details of Technical Staff

Sl No	Name	Designation	Qualification
1	DIVYA K	Instructor Grade I	M.Tech
2	JOBY JOSEPH	Technician	Diploma
4.	JOSY FRANCIS	Technician	ITI(Electronic Mechanic)
5.	SINI JOSHY	Technician	Diploma in Electronics and Instrumentation
6.	JYOTHISH FRANCIS	Technician	ITI(Electronic Mechanic)

3. Academic Activities

A brief account of the various academic activities and their outcome are dealt in this section.

3.1.1 Results of University Examinations

The details of conduct of University Examinations and published results for the students of the Department of Electronics & Communication I Engineering is listed below.

Sl. No.	Batch	Semester	No. of Students appeared for exam	No. of students passed	% of Pass
1	2019-23	S8	61	54	89
2	2019-23	S7	61	41	67.21
3	2020-24	S6	Result Not Published		
4	2020-24	S5	52	19	37
5	2021-25	S4	Result Not Published		
6	2021-25	S3	54	29	54
7	2022-25	S2	Result Not Published		
8	2022-25	S1	49	36	73.47

3.1.2 Placement

21 offers from a diverse range of companies like TECHNOLOGICS, PENTAGON SPACE, MOVATE (CSS CORP), QUEST GLOBAL, JOBIN & JISMY, ULTS, Accenta Education, QSPIDERS, Federal Bank, MGS ROBOTICS, FACE Prep underscore the department's success in equipping students with the skills and knowledge needed to excel in the job market. It also reflects positively on the department's

collaboration with industry partners, ensuring that students are well-prepared for their careers in electronics and communication engineering.

3.2 Co-curricular Activities

The Department of Electronics & Communication Engineering has a strong commitment to enhancing the learning experience of its students beyond traditional classroom settings. Through a combination of technical workshops, competitions, research opportunities, and industry engagement, both students and faculty actively contribute to the department's culture of continuous learning and innovation. This holistic approach to education prepares students for successful careers in the field of electronics and communication engineering.

3.2.1 Professional Body Activities

The IEEE Circuits and System Society and IEEE Photonics Society of Vimal Jyothi Engineering the inauguration was held on 25/11/2022. The function was inaugurated by Dr.Alex James(Dean Academic,Digital University Kerala).

<i>Sl. No.</i>	<i>Topic</i>	<i>Speaker</i>	<i>Date</i>	<i>Class</i>	<i>Students attended</i>
1	Technical talk on the topic Insights in AI Hardware and Neuromorphic System	Dr.Alex James	25-11-22	All students	200
2	Workshop on Web Designing and Development	Manas Tom	23-11-22	II Year	54
3	Introduction gaming session	Sujith V (Centre Head,Area Animation,Kannur), General session by Swapnil Gaikwad	27-02-2023	IV Year	61

		(Territory Academic Head, Aptech Ltd)			
4	Hands- on session on introduction to python	Manas Tom.	08/02/23	II Year	54
5	Technical talk on Emerging communication technologies.	Dr. Jadadeesh V K Asst.Prof, NIT Patna		III & II Year	100

3.2.2 Add-on Course

<i>Sl. No.</i>	<i>Activity</i>	<i>Speaker</i>	<i>Date</i>	<i>Class</i>	<i>Students attended</i>
1	Conceptual Study On Python Programming for Data Science and Machine Learning was conducted for S6 ECE students	Mr.Jayasurya and Mr.Akesh (Trainers of Quest).	15th March to 17th March of 2023.	III Year	52
2	A five-day workshop on Conceptual Study on Data Science	Dr. Sarin C R Academic Manager and SME Data Science	1st March to 5th March of 2023	IV Year	61
3	Fundamentals of Python Programming	Mr.Jayasurya and Mr.Akesh (Trainers of Quest).	10th March to 14th March of 2023.	II year	54

3.2.3 Industrial Visit

The students of the department were motivated to visit places where different Electronics & Communication engineering activities were taking.

<i>Sl. No.</i>	<i>Industry</i>	<i>Date</i>	<i>Class</i>
1	FRESH N FRUITS	10 JUNE 2022.	Third Year

3.3 Achievements by the students

1. Rohan U T C ,Chandana Shaji, Shanas M and Vineesha Lambert were presented a paper title on “IOT Based Secure Monitoring and Detection of Manhole” for the International Conference on Emerging Technologies Organized by Royal CET, Akkikavu, Trissur on 16-17 September 2022.
2. Mr Abhilash C, Mr Albo Joseph K, Mr Amrithesh Gopinath and Mr Meldine Domine were presented a paper “Smart Trolley System with QR Code Decrypting Technique” at the International conference on Machine Intelligence and Research Development Organized by Sree Narayana Gurukulam College of Engineering In Association with KUFOS.

3.4 Achievements by the faculty members

Ms Sudharsana Vijayan has Published a Text Book “Constitution Of India” Based on Fourth semester KTU curriculum.

Dr. Jayesh George M has been elevated to the grade of Senior Member of IEEE

3.4.1 Short Term Program (STTP)/FDP attended by Faculty

Sl No	Details of the STTP	Name of the Faculty	Period
1	One week Online FDP Program on “Computer Vision and Deep Learning” Organized by Department of Computer Engineering at V E S Polytechnic in Association with CSI Chapter.	Ms Anusha Chacko	
2	5 day online Faculty Development Program on Research Writing and Publishing organized by IQAC- Vimal Jyothi Institute of Management and Research (VJIM) Chemperi ,Kannur	Dr. Roshini T V and Grace John	
3	Five Day Online Faculty Development Programme on "Python Programming	Dr Roshini T V ,Ms Jerrin Yomus ,Ms Bindu Sebastian	26th September

	and Its Application" organized by G.Pulla Reddy Engineering College (Autonomous): Kumool	,Ms Lekshmy S, Ms Anusha Chacko, Ms Grace John and Ms Sudharsana Vijayan	2022 to 30 th September 2022.
4	Innovation Ambassador (IA) training "Foundation Level" conducted in Online mode by MoE's innovation cell & AICTE	Mr Vinod J Thomas	
5	one-week online faculty development program on "IoT Induced Artificial Intelligence for emerging computing Paradigms" Organized by The Department of Information Technology Dr. B.R Ambedkar National Institute of Technology Jalandhar	Ms.Bindu Sebastian	04-08 October 2022
6	Five Day APJ AKTU Sponsored Faculty Development Programme on Technology Based Learning for Communication and Signal Processing" organized by Saintgits College of Engineering , Kottayam,	Dr Anto Sahaya Dhas and Dr Jayesh George	09th January 2023 to 13th January 2023.
7	Five Day AICTE sponsored faculty development program on Artificial Intelligence	Mr Vinod J Thomas, Mr Binil Kumar, Mr Adarsh K S, Mr Manoj K C and Ms Anusha Chacko	16 th January to 20 th January 2023
8	Five days of faculty development program on IoT Hands-on session organized by SNGCET Payyanur.	Ms.Shimna P K and Ms. Lekshmy S	27th February 2023 to 3rd March 2023
	Online faculty development program on 'FPGA Based Deep Learning Applications in Signal Processing ' sponsored by the Ministry of Electronics and Information Technology GoI, Organized by E &ICT Academy, NIT Warangal, and Dr. N.G.P Institute of Technology Coimbatore.	Dr. Roshini T V , Ms. Lekshmy S , Ms. Grace John M, Ms. Ann Mathew and Ms. Sudarshana Vijayan	6th February – 16th February 2023.

3.4.2 Training Programs /Seminars/workshops attended by Faculty

Sl No	Details of the Training program	Name of the Faculty	Date
1	IP Awareness/Training program under National Intellectual Property Mission organized by Intellectual Property Office, India.	Ms. Anusha chacko	December16, 2022
2	4th National Level Workshop on NIRF India Rankings 2023” conducted by Institute for Academic Excellence (IAE), Hyderabad in collaboration with Collegiate Education & Technical Education Department, Govt. of Telangana.	Ms. Anusha chacko	21st&22nd December, 2022

3.4.3 Papers Published by Faculty

Sl No	Tile of the paper	Name of the Faculty	Journal/Conference title
1	IOT Based Secure Manhole Monitoring and Detection system”	MsBindu Sebastian	International conference on Machine Intelligence and Research Development Organized by Sree Narayana Gurukulam College of Engineering In Association with KUFOS.
2	Smart Trolley System with QR Code Decrypting Technique	Ms. Anusha Chacko	International conference on Machine Intelligence and Research Development Organized by Sree Narayana Gurukulam College of Engineering In Association with KUFOS.
3	A Review on Breast Imaging	Ms Sudharsana	IEEE 2022 Third

	Modalities based on Technical Aspects	Vijayan and Dr Roshini T V	International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICT)
4	IOT Based Secure Monitoring and Detection of Manhole” for the	Ms Bindu Sebastian	International Conference on Emerging Technologies Organized by Royal CET, Akkikavu, Trissur on 16-17 September 2022.
5	5G Telecommunication Allocation Network Using IoT Enabled Improved Machine Learning Technique.	MS.SUDARSHANA VIJAYAN, DR.ROSHINI T V	Wireless Communications and Mobile Computing, Wiley 2022, Article ID 6229356
6	Computational Assessment Model for Blind Medical Image Watermarking with Deep Learning.	Ms. Anusha Chacko	Computational Methods in Systems and Software 2022, October 13, 2022 - October 15, 2022

3.4.4 Invited lectures delivered by the Faculty

<i>Sl.No</i>	<i>Title</i>	<i>Name of the faculty</i>
1	As a resource person for expert talk on Mobile Communications and its future at St Thomas college of Engineering and Technology on 24-2-23	Dr. Anto Sahaya Dhas

3.5 FDP Conducted/Other Activities/ Classes conducted

Activity	Title
Tech Fest	The annual tech fest of Vimal Jyothi Engineering College (VJEC) for the year 2022, Tantra “22 is organized on 05.12.2022.
Collaborative Learning	Ms Bindu Sebastian and Ms Anusha Chacko Organized a Field Visit Collaborative Learning in Vimal Jyothi Engineering College for the Students from Nirmalagiri College, Kuthuparamba.

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

**Annual report
2022-2023**

Programmes conducted:

1. Dept of Civil Engineering conducted 9 events as a part of techfest. There were around 100+ registrations for workshop event and likewise number of participants for few other events .
2. Date with an Industry program was conducted on 22nd February 2023 in association with Kerala Knowledge Economy Mission (KKEM).
3. Quiz competition was conducted for final year students on World Wetlands Day.
4. Total station workshop 2020-24 students from 22nd february to 26 th feb 2023 conducted by ALG International Academy
5. Workshop on Revit Architecture by InterCAD systems pvt LTD for 2020-24 students from 27/2/23 to 01/03/23
6. Total station workshop for 2019-23 students from 27th february to 1st March 2023 conducted by ALG International Academy
7. Total station workshop for 2021-25 CE students from 15th february to 17th February 2023 conducted by ALG International Academy

Department Achievements

1. Departments First Online National Conference on Sustainable Construction and Materials for Infrastructure" was organised and was a successful
2. Department has signed MoU with Construction Management Training Institute, Bengaluru for development of Civil Engineering Students through Industrial Oriented Training Programmes & Internships

Faculty achievements:

1. Ms.Anitha Babu & Mr. Rojin P has acquired individual membership in Indian Concrete Institute
2. Ms. Anitta Jose has successfully completed 4 modules of NITTT
3. Mr, Peter Jobe and Ms. Athira Rajendran has successfully completed 2 modules of NITTT.
4. Mr Peter Jobe conducted an online workshop on Building information modelling in association with Inter CAD systems Pvt .Ltd
5. Dr Vibhoosha MP has participated in the webinar on 'Landslides Forecasting With Case Studies' organized by SC 7 Student Chapter Activities and Continuing Education.
6. Mr. Abhijath I P has participated in the webinar on 'Fire Load Response Analysis of Offshore Platforms' organized by Dept. of Ship Technology CUSAT.
7. Dr Vibhoosha MP has presented a paper titled 'Time Dependent Behaviour of Shedi Soil Reinforced with Stone Columns' on first international Conference NSCTCE 2022.
8. Mr Peter Jobe has published a paper titled 'Numerical Investigation And Comparison Study Of Cold Formed Steel Castellated I-Section' on IJCRT
9. Ms, Margaret Abraham, has published a paper titled 'Analysis Of Concrete Filled Double Skin Steel Tube (Cfdst) Column With FRP Wrapping' on IJCRT
10. Ms, Anuragi P has published a paper titled 'Productivity Assessment Model Using Fuzzy Logic Approach' on IJCRT

Student achievements

- 1.** Nanditha K, Karthika KP and Swetha Mareena (2018-22 batch) were shortlisted by Paradigm IT Pvt. Ltd.
- 2.** Sruthi K R and Dilsha V (2018-22 batch) are offered by Amerigo Structural Engineers Pvt. Ltd.
- 3.** K N Rohith (2019-23) has achieved first prize in Inter college chess (Zone F) competition conducted in Vimal Jyothi Engineering college
- 4.** Anusree Ramachandran (2019-23) got placed in TECHNOLOGICS.
- 5.** Sandra Madhukumar, Treesa Wilson, K N Rohith, Thanwi Rajeev, Anagha Premarajan, Abhiram J M, Neha Saseendran, Aryasree Ramachandran (2019-23) got placed in Accenta Education
- 6.** Pavithra T A (2019-23) got placed in QSPIDERS

ANNUAL REPORT

2022-23

**ELECTRICAL AND ELECTRONICS
ENGINEERING DEPARTMENT**

Introduction

The Electrical and Electronics department remembers the sad demise of the founder chairman of our college Msgr. Mathew M. Chalil later this year. We would like to start the annual report of 2022-23 with due respect and prayers to our late dear founder chairman.

The department is very delighted to state that the 18th batch have successfully completed the course in 2022-23. With the Blessings of God the Almighty and with the guidance and support of our Management, Principal, Faculty, Staff, Parents, Students and well-wishers, we could profoundly continue our journey. Offering state-of-the-art facilities and a distinguished teaching faculty, the department creates students of higher academic capabilities. Professional body activities, MoU with industries, training for placement, compulsory internship, promotion of cultural and sports activities, Workshops and seminars, etc., are giving students a cutting edge advantage.

Academic activities

- Admission for the academic year 2022-23 started during the month of July 2022. We could get an intake of 45 students.
- Jyothirgamaya 2022, the inaugural function of first year student academics was conducted on 25th October 2022.
- The EEE department had its accreditation visit by the NBA team in June 2023.
- The department could produce an overall pass percentage of 45.45% for its 2019-23 batch.
- Out of 33 students 20 of them got placed in various companies.

Department activities

1. IEEE IAS SB VJEC organised a blog writing competition from 19th September 2022 to 25th September 2022 in online mode on the topic: Recent innovations or technical developments.
2. IEEE day was celebrated on 4th October 2022 in the Varikattu hall.
3. Introduction to IEEEEXTREME was organised on 5th October 2022 in online mode and the resource person was Ms. Anusree K. V. , IEEEExtreme 16.0 Ambassador.
4. DAB meeting of the department was held on 25th October 2022 in Varikattu hall.
5. MoU signed with Wartens Technology , Astrek Innovations.
6. S7 EEE students attended Industrial Internship at KELTRON Karakum, KSEB, Barapol
7. PTA meetings for S3 EEE students and S7 EEE students were conducted on 2nd and 3rd of November 2022 respectively.
8. The technical fest- TEKSCIO 4.0 was held on 5th December 2022.

9. A workshop on Python- Fundamentals of Python was conducted from 16th February 2023 to 20th February 2023 in the software lab by Mr. Muhammed Suhail, Robotics Engineer, Deepflow Technologies Pvt. Ltd. for the S6 EEE students.
10. Training on PLC, SCADA and HMI- 43 hours in campus training,60 hours practical session in wartens Bangalore from 22.2.2023 to 17.3.2023 was conducted for S8 EEE students in association with WARTENS, Bangalore.
11. IEEE SB VJEC organised a Hands-on workshop on Introduction to Augmented Reality on 25th February 2023 and the session was handled by Mr. Salih Yoosaf.
12. Talk on "SDG and pathway to attain Energy Sustainability" on World Sustainable Energy Day was organised for S8 EEE students on 2nd March 2023 in the Varikattu hall. The session was handled by Mr. Anil M, Retired Deputy Chief Engineer, KSEB Ltd.
13. From 10th March 2023 to 12th March 2023 S6 EEE students visited Wonderla in Bangalore as part of industrial visit.
14. A workshop on Python- Fundamentals of Python was conducted from 14th March 2023 to 18th March 2023 in the software lab by Mr. Muhammed Suhail, Robotics Engineer, Deepflow Technologies Pvt. Ltd. for the S4 EEE students.
15. AGM OF IEEE SB CHAPTER VJEC was held on 23rd March 2023 in the Varikattu hall.
16. IEEE WIE AG VJEC organised a training program on sustainable menstruation on 1st April 2023 in the Varikattu hall. The program was led by Mrs. Fathimathul Bisriya.
17. IEEE PELS AND PES OF SBC VJEC organised Earth day quiz on 22nd April 2023 in online mode.
18. IEEE PELS AND PES OF SBC VJEC organised a project competition on 26th April 2023 for final year students.
19. As part of IEEE PES DAY, a webinar on Powering a climate safer future Dr. Celia Shahnaz, IEEE WIE International Chair Professor at department of EEE, Bangladesh.
20. A Charity pilgrim program was organised for S2EEE students in association with the NSS unit on 29th April 2023 at Karunapuram.
21. PTA meeting for S2 EEE students was conducted on 12th May 2023 in the Varikattu hall.
22. The NBA visit to the department of EEE was from 16th June 2023 to 18th June 2023.
23. Alumni Mr. Robin Thomas and Ms. Dhanya P Interacted with S4 and S6 EEE students on 17th June 2023.
24. IEEE PELS SBC VJEC conducted a Quiz Competition on June 27, 2023, from 7:00 p.m. to 7:20 p.m. on the topic of Power Electronics on behalf of the PELS Day celebration in 2023.
25. IEEE PELS SBC VJEC conducted a Distinguished Lecture Programme (DLP) on "Protection of Multi-Terminal High-Voltage DC (MTDC) Grids" on July 4, 2023, from 6:00 PM to 7:00 PM. By eminent personality Dr.Maryam Saedifard, Professor at the Georgia Institute of Technology,USA.

Faculty Achievements/ publications

1. Ms. Tintu George T. has been elevated to senior member grade of the IEEE.
2. Ms. Jyothi Joseph has been elevated to senior member grade of the IEEE.
3. Mr Prabin James AP, EEE has been selected as a reviewer for IEEE Humanitarian Activity Council Project at international level.
4. Ms. Tintu George T has been selected as a member of the Professional and Educational activities subcommittee.
5. Mr. Prabin James has been selected as a member of the IEEE Vehicular Technology Society Young Professionals (YP) Committee.
6. Ms. Tintu George T has been selected as IEEE PES DAY 2023 Ambassador under Kerala Section.
7. Mr. Prabin James has been selected as Professional Activity Chair, IEEE Photonics Society, Kerala Section.
8. Ms. Tintu George T has attended duly as a facilitator in YIP 5.0 - Intern training session & Departmental Workshop organised by Kerala Startup Mission in association with Kerala Development and Innovation Strategic Council (KDISC) on 13th February 2023 at College of Engineering Thalassery.
9. Dr. Teena George has participated in the regional meet of Institute Innovation Council and MoE's Innovation Cell held on 6th August 2022.
10. Dr. Justin Sunil Dhas has been assigned as a question paper setter by the Kerala Technological University.
11. Ms. Jyothi Joseph has been assigned as a question paper setter by the Kerala Technological University.
12. Ms. Tintu George T has been a reviewer in 5th International Conference on Systems, Energy and Environment (ICSEE 2022) held at Government College of Engineering Kannur on 5th and 6 th August 2022.
13. Dr. Teena George has been a reviewer in 5th International Conference on Systems, Energy and Environment (ICSEE 2022) held at Government College of Engineering Kannur on 5th and 6 th August 2022.
14. Dr.G.Justin Sunil Dhas has been an approved external auditor for the academic year 2022-23.
15. Mr. Rojith K. has been appointed as program officer of the NSS unit 306 of VJEC.
16. Prof. Dinesh C.K. (former Assoc. Professor EEE) was elected for the best Vimal Jyothian award.
17. Ms. Shelma George attended FDP on the topic Emerging trends in Power Electronics and Control for Electric Vehicle and Smart Grid from 19th September 2022 to 23rd September 2022.
18. Ms Athira M Thomas attended FDP on the topic Emerging trends in Power Electronics and Control for Electric Vehicle and Smart Grid from 19th September 2022 to 23rd September 2022.

19. Ms. Shelma George, AP, EEE has published a paper titled Fuzzy Based Hybrid Control Topology for Fuel Cell and Battery Powered EV, 10.1109/SeFeT55524.2022.9909199.
20. Ms Indulekha K M , AP, EEE completed the following MOOC courses conducted by NPTEL
 1. DC microgrid and control systems
 2. Advance power electronics and control
21. Dr. Teena George, AP, EEE, has published a paper titled ‘Wind Energy Conversion System Based PMSG for Maximum Power Tracking and Grid Synchronisation Using Adaptive Fuzzy Logic Control’ Journal: Journal of Applied Research and Technology ISSN:1665-6423
22. Dr.G.Justin Sunil Dhas has attended APJAKTU sponsored Five day FDP on Recent Advances and Research Challenges in Electric Vehicle System Design organised by Dept of EEE Sahrdaya College of Engineering and Technology, Thrissur from 30th January to 3rd February, 2023.
23. Ms. Laly James has attended a one week faculty development program on “Recent Trends in Grid Integration” from 30/01/2023 to 03/02/2023 organized by Department of Electrical and Electronics Engineering,Mangalam College of Engineering.
24. Ms. Tintu George T has attended a one week faculty development program on “Recent Trends in Grid Integration” from 30/01/2023 to 03/02/2023 organized by Department of Electrical and Electronics Engineering,Mangalam College of Engineering.
25. Ms. Athira M Thomas has attended a one week faculty development program on “Recent Trends in Grid Integration” from 30/01/2023 to 03/02/2023 organized by Department of Electrical and Electronics Engineering,Mangalam College of Engineering.
26. Mr. Rijoy G N has attended APJAKTU sponsored online FDP on bloom's taxonomy in teaching and learning conducted by Dept of ME, IES Engineering college, Irinjalakuda on 16th February 2023.
27. Ms. Tintu George T. has presented a paper titled "A Review on Drive Selection, converters, and Control for Electric Vehicle, in “2023 IEEE Third International Conference on Technology, Engineering, Management for Societal impact using Marketing, Entrepreneurship and Talent (TEMSMET)”, to be hosted by Vidya Vikas Institute of Engineering & Technology, Mysore on 10th & 11th February 2023.
28. Dr. Teena George has attended training program on "Sthree padhavi padanam" organised by Kannur district panchayath on 2023 February 27th.
29. Ms. Tintu George T has attended a one day training program on Problem Canvas creation jointly conducted by Kerala Startup Mission, ICT Academy of Kerala and Kerala Development and Innovation Strategic Council on 13th February 2023.
30. Ms. Shelma George has published a paper on "An Adaptive Control Strategy for Performance Improvement of a Hybrid Vehicle With Fuel Cell and Supercapacitor" in Grenze International Journal of Engineering and Technology (GIJET).
31. Mr. Rijoy G N has attended FDP on Recent Trends in Power Electronics & Power Systems, organised by the Department of Electrical & Electronics Engineering, The National Institute of Engineering, Mysuru. March 20-24.
32. Ms. Athira M Thomas has attended FDP on Recent Trends in Power Electronics & Power Systems, organised by the Department of Electrical & Electronics Engineering, The National Institute of Engineering, Mysuru. March 20-24.

33. Dr. Teena George has conducted hand-on training on MI-POWER for S6 EEE students. Date: 21/03/2023.
34. Mr. Rijoy G N has attended Workshop on adobe express- conducted by VJEC at Mechanical CAD lab on March 26, 2023.
35. Dr. G. Justin Sunil Dhas has submitted a project proposal for the Fulbright Specialist Program.
36. Ms. Tintu George T. has participated in the six day Short Term Training Program on SMART GRID TECHNOLOGY organised by the Department of Electrical and Electronics Engineering, Mar Baselios College of Engineering and Technology from 17-22 April 2023.
37. Ms. Athira M Thomas has participated in the six day Short Term Training Program on SMART GRID TECHNOLOGY organised by the Department of Electrical and Electronics Engineering, Mar Baselios College of Engineering and Technology from 17-22 April 2023.
38. Ms. Shelma George has attended the International Conference on Control, Communication and Computing organized by CET from 19th to 21st May 2023 and presented a paper titled "Fuzzy-Based Control Strategy for Supercapacitor Assisted Battery Powered EV".
39. Dr.G.Justin Sunil Dhas, AP, EEE, has published a paper titled "Power line Voltage Sag Mitigation by Dynamic Voltage Restorer using ANN optimization Technique Approach ", in International Journal of Scientific Research in Engineering and Management"
40. Ms.Shelma George, AP, EEE, has published a paper titled "Fuzzy-Based Control Strategy for Supercapacitor Assisted Battery Powered EV " in IEEE Xplore.
41. Dr. Teena George, AP, EEE has been the reviewer of IEEE International conference on Innovation in Engineering and Technology.
42. Dr.G.Justin Sunil Dhas, AP, EEE, visited "Government College of Engineering, Kannur" as an External auditor for APJAKTU on 13th July, 2023.
43. Dr.G.Justin Sunil Dhas, AP, EEE, visited " College of Engineering, Thalassery" as an External auditor for APJAKTU on 19th July, 2023.

Student's Achievements

1. VJEC IEEE IAS SBC (Industrial Application Society) has received the following awards this year:
 1. Continued Outstanding Performance student branch chapter
 2. Humanitarian Project Contest - 3rd place-Noyal Jose S6 EEE
2. Mr. Noyal Jose of S7 EEE participated in the SAUVC 2022 held at Singapore Polytechnic, Singapore from September 23rd to 26th 2022.
3. Mr. Agil Mathews of S6 EEE has been elected as the College Union Chairman for the year 2023.
4. Mr. Sebin M. S. of S6 EEE has been elected as the Sports Captain for the year 2023.
5. IEEE Malabar Subsection Awards 2022-Outstanding Student Volunteer (Special Mention)-Ms. Aleena K Shibu - S6EEE
6. Ms. Aleena K Shibu - S6EEE has been selected as IEEE Malabar Hub Women In Engineering Coordinator.

7. Mr. Sebin MS of S6 EEE got second prize in Long Jump (University sports meet).
8. Ms. Varada Anil of S6EEE has been selected as IEEE MALABAR Hub Content Writer.
9. Mr. Agil Mathews of S6EEE has been selected as MALABAR HUB HSR, IEEE PES Kerala Chapter Student Leadership Team 2023
10. Ms. Shanat K S of S4 EEE has been selected as PES Day Ambassador.
11. Mr. Shreyas Vinod of S2 EEE secured 1st place in the sub junior bodybuilding competition organised by WFFK.
12. Mr. Shreyas Vinod of S2 EEE secured 2nd place in the sub junior bodybuilding competition held at town square Kannur .
13. Abhilash Joseph and Amritha P. have been placed at Synergy Systems & Solutions through WARTENS Training.
14. The project titled "underwater Robot" of Mr. Noyal Jose, S8 EEE was shortlisted and invited for demonstration at the IAS Annual meeting with travel grant. Annual Meeting is scheduled at Nashville, USA from Oct 29-Nov 2 2023.
15. Ajin Mathew Joseph got placed in ASK SOLUTIONS,Hyderabad and Ajith Saji was placed at Oriental Automation Systems Pvt. Ltd.
16. Alen Varghese has been placed in ULTS and Ashlyn Wilson Sasthampadavil got an offer from Federal Bank.
17. Aswanth Rameshan, Joel M Jacob and Noyal Jose have been placed with SP LEAK TEST AND AUTOMATION PVT LTD.
18. Aswin K got placed in Sarla Technologies and Aswin Suresh M S has been placed in ASK SOLUTIONS,Hyderabad
19. Dwithi Shivakumar, Renitha Ramakrishnan, and Vaishali Prabhakaran have been placed with ACCENTA Education.
20. Gokul Ariyil is placed in MGS Robotics and Kiran Joseph has been placed in A K Automations
21. Nakul Ganesh got placed in Technologies and P Roma Ullas was placed in Ishttaa TechCraft Pvt Ltd.
22. Renitha Ramakrishnan got an offer from Face Prep and Sayooj Devan M B secured a job with STEM Cadets PVT. LTD.
23. John Tomy and T K Mohammed Zijah placed in Voltech Pool Pvt. LTD

VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

Department of Computer Science And Engineering

Annual Report 2022-23

1. Introduction

The academic year 2022–2023 was incomparably wonderful, demonstrating that great things are accomplished by a combination of a number of tiny actions. Our collaboration was excellent, producing admirable results. As we provide the annual updates of our activities, we are pleased to report that we tried our best to carry out everything as planned. We are also proud of our students and teachers who work really hard to go above and beyond their potential. The students' overall development has been our main priority. As academic sessions experience repositioning, restructuring, and refocusing, we have always been dedicated to fostering an environment in the department that supports the growth of the young minds and offers a platform for independent thought and the full development of the student's personality. Our activities and accomplishments for the Academic Year 2022-23 are detailed in this ANNUAL REPORT.

2. Admission

- A record number of applicants applied for admission in the academic year 2022–2023, with 407 of them successfully registering at the levels of computer science and engineering (CS), computer science and design (CG), artificial intelligence and data science (AD), computer science and engineering (cyber security) (CY), and computer science and engineering and business systems (BE), respectively.

Additional Information:

https://docs.google.com/document/d/1lesp_cZu7igyJrx5UOz0K1M0DOCNLGYu6z_ljoTHtMo/edit?usp=sharing

3. Result

- Students at VJEC achieved 86.32% in S8 (2019-2023), 81.2% in S7 (2019-23), 73.5% in S6 (2019-23), 73.5% in S6 (2019-23), 60.99% in S5 (2020-24), 75.41% in S4 (2020-24), 66.12% in S3 (2021-25), 54.9% in S2 (2021-25), and 73.94% in S1 (2022-2026) and S1 (2021-2025).

Additional Information:

<https://docs.google.com/document/d/1U-GglbdghS6XM7KySuZn38UMQZCveY5xyzuEOXarvg8/edit?usp=sharing>

4. Placement

- 55 out of 117 students were placed in various sectors in the academic year 2022-23.

Additional Information:

<https://docs.google.com/spreadsheets/d/1494RPKxeODJXFjIYOt8kjOYxbjTNN4yUEWg9I8Lmxc/edit?usp=sharing>

5. **Development activities & new initiatives (can include add-on courses etc).**

- Add-on course on “Object oriented programming using Python” was organized by the Department of CSE on March 15,16,17 2023 for the students of S4 CSE. Coordinators, MANJU M (APC) & SUHADA C (APC) collaborated with PROGRESSUM to bring out the basics in Python.
- Add-on course on “Cyber Security” was organized by the Department of CSE on March 22,23,24 2023 for the students of S6 CSE. Coordinators, NAJIRA SALAM(APC) & SREEDAYA M (APC) collaborated with RED TEAM HACKER ACADEMY to learn about the latest trends and developments in the field of security.
- Add-on course on “Machine learning” was organized by the Department of CSE on March 6,7,8 2023 for the students of S8 CSE B. Coordinators, Rajitha (APC) & Abhiram P(APC) collaborated with Evolve robotics india to applications of machine learning and natural language computing.
- Add-on course on “Block chain” was organized by the Department of CSE on March 4,5,6,7 2023 for the students of S8 CSE A. Coordinators, RIJIN IK (APC) & DIYA RAMESHAN (APC) collaborated with Evolve robotics india to applications of Block chain.

Additional Information:

<https://docs.google.com/document/d/1oX7KmLBWketlaptQSXMsRufWjdNgTABR-BqMxDpeF60/edit?usp=sharing>

6. **Achievements - Department/Faculty/Student**

Student

- Maria Manoj, VismayaMariya Thomson, Ann Maria George, and Ancil Tresa Sunil completed an internship at the Mibiz Cyber Forensics Laboratory, Technopark Campus, Thiruvananthapuram, as part of the MoU with VJEC.
- UJWEL C Participated in 51st Kerala state Under 19 chess championship 2022.
- Dr. Jeethu V. Devasia, Gopinath, Joy, Wilson, and Saji presented a paper on machine learning for customer evaluation and profit maximization in offline stores at the Third International Conference on Intelligent Computing, Instrumentation, and Control.
- Dr. Jeethu V. Devasia, Ashly, Devika, and Susil presented a paper on peer tracking and collision-free navigation for visually impaired individuals at the Third International Conference on Intelligent Computing, Instrumentation, and Control.
- Dr. Jeethu V. Devasia and Ms. Suhada C presented a paper on risk prediction using machine learning on an imbalanced dataset at the Third International Conference on Intelligent Computing, Instrumentation and Control.
- Ms. Tintu Devasia presented a paper on a SMS-based remote mobile phone data access system at the Third International Conference on Intelligent Computing, Instrumentation, and Control.
- Vyshnav Sreeshan, Vaishnav Krishna, and Kiran Valsalan successfully completed the consultancy

project, Latex Management System for Nalan- da Latex and Rubbers, Pathanamthitta, under the Software Development Cell, CSE.

- M S . Athira K & M S . Malavika Manoj , S5 cse - cs students won the ACM & ACM-W poster designing contest organized on november 25 th for the international day for elimination of violence against women.
- The CSI Student Chapter held a web assignment competition for the CSI College website on November 11, with Vaishnavi Rajesh winning first place and Nipun Das second place.
- Shijas P S8 CSE B GATE qualified.
- Unnati Mahotsav 2023 to be held at IIT Delhi on 17th and 18th March 2023. Participants:Fr. Lazar Varambakathu, Ms. Vidhya S S (AP, CSE),Mr. Alan Jyothis Thomas (S6 B)
- Kiran P P, a S8 CSE-B student, discovered security vulnerabilities in Apple's products and servers, dedicating his achievement to his friend Nirmal Shaju, who tragically passed away.

Faculty

- Mr. Akhil K K's patent application, titled "Design an IoT-driven system using deep learning to detect damages to steel frames," was published on 27/07/2022.
- Dr. ManojV Thomas from CSE VJEC chemperi chaired a session on a technical panel at the IEEE International Conference on Computing, Communication, Security, and Intelligent Systems (IC3SIS-2022).
- Mr. Rijin I K and Ms. Ambili M A published a text book on Microprocessors and Microcontrollers for CSE students.
- Mr. Abdul Latheef published a paper Network-Based Control for
- Nonlinear System in 2022 Third International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICICT).
- Mr . Rijin I K successfully Completed the Certified Block chain Associate Program offered by the Kerala Block chain Academy .

7. Professional body activities

Nine Events are conducted during the academic year 2022-23 under various organizations like IEEE, CSI, ACM, ACM-W, CSI,Red Hat Academy, Programming club & Coding Ninjas etc...

Additional Information:

<https://docs.google.com/document/d/1zA8gWdAzkPxSDbXb38OTjXu4egcUa16Np8wbTc16c4s/edit?usp=sharing>

8. Conclusion

We sincerely appreciate all of the wise counsel and helpful recommendations we have gotten from many sources. We are grateful for Manager and Principal , VJEC insightful advice and perceptive observations that helped us throughout the year. Our sincere hopes are that they will continue to encourage and support us. We owe a debt of gratitude to the HOD and every member of the CSE team for making sure that the demands placed upon our college are met in a prompt and unwavering manner. Finally, we can boldly state that our ongoing goal is to "March towards Progress" as we draw to a close.

Report on Teachers' Participation in Faculty Development Programme (FDP) in the academic year 2022-23

Throughout the academic year 2022-23, faculty members from our institution actively participated in a multitude of Faculty Development Programs (FDPs) and workshops, aimed at enhancing their proficiency and skills across various domains encompassing engineering and education. Below is a detailed summary of their active participation in these events:

1. FDP on "Smart Waste Management"

- Participants : Ms. RESHMA K V
- Date : 12/09/2022 - 17/09/2022

2. STTP on AI & Applications

- Participants : Ms. RESHMA K V
- Date : 29/08/2022 - 03/09/2022

3. FDP on Advancements of Cyber Security

- Participants : Ms. RESHMA K V
- Date : 22/08/2022 - 26/08/2022

4. FDP on Collaborative Research Practices in Modern Era

- Participants : JINSA MATHEW, SHINU MM
- Date : 13/02/2023 - 21/02/2023

5. FDP on Research writing & Publication

- Participants : JINSA MATHEW
- Date : 18/07/2022 - 22/07/2022

6. FDP on Medical Image analysis using Deep learning techniques

- Participants : SHINU MM
- Date : 23/02/2023 - 28/02/2023

7. FDP on Artificial intelligence and data science

- Participants : Dhanoj M
- Date : 18/03/2022 - 21/03/2022

8. FDP on OBE Philosophy and Practice

- Participants : Dhanoj M, Ms. Hridya P, Ms. Athira Rajedran, Ms Divya B, Ms Vidhya S S, Ms Tintu Devasia, Ms Nayana Suresh, Ms Sreeraji Narayanan, Mr Rijin I K, Mr Akhil K K, Ms Rajitha K V, Ms Ujwala Vijayan, Ms.Anu Treesa

George, Ms Jijina M T, Ms Rahna C M, Ms Sisna P, Ms Suhada C, Mr Abhiram P, Ms Sreelakshmi M, Ms Manju M, Ms Namitha P, Ms Ashila K A, MS.LALY JAMES, Dr.G.JUSTIN SUNIL DHAS, Dr.R.SENTHILKUMAR, TINTU GEORGE T, TEENA GEORGE, PRABIN JAMES, TINU FRANCIS, SHELMA GEORGE, JYOTHI JOSEPH, INDULEKHA K M, ATHIRA M THOMAS, ROJITH K, RIJOY G N, Dr Biju Mathew, Ms Sigi Thomas, Dr BennyJoseph, Ms Anitha Babu, Mr Saneesh K, Mr Logi N Boby, Mr Abhijath I P, Ms Anuragi P, Dr Saathappan VRA, Ms MargaretAbraham, Mr Ashwin Joy, Ms RinnetFrancis, Mr Rojin P, Ms Hridya P, Ms Anitta Jose, Ms AthiraRajendran, Dr Vibhoosha MP, Ms ResmithaRani Antony, Ms Sinai Michel, Ms Aswathi K, Ms Shimna P, Ms Parvanendu K, Dr D AntoSahaya Dhas, Ms JerrinYomas, Mr Vinod JThomas, Dr Roshini T V, Ms BinduSebastian, Mr Manoj K. C, Mr Adarsh KS, Ms Shimna P K, Ms Lekshmy S, Mr Binil Kumar k, Ms Grace John M, Dr JayeshGeorge M, Ms AnushaChacko, Ms Ann Mathew, Ms SudharsanaVijayan, Mr George K V, Mr Vasudevan M, Mr Jomy Jose, Mr Dominic N Thomas, Mr Shijith Thomas, Ms VineethamolAbraham, Ms Sithara Tom, Ms Anju Sunny, Ms Ance MariaThomas, Ms Divya Thomas, Ms Leena P V, Ms Subhalakshmi V, Ms Swathi Chandra M T, Mr Jobin K V, Dr. G Glan Devadhas, Ms Shamyra A, Ms Jyothsna S Mohan, Ms Dinsha P K, Cdr Raju K Kuriakose, Shaminmuth K.K, Vysakh K.V, Niyas K.M, Sreekanth M.P, Anoop K R

- Date : 05/05/2023 -09/05/2023

9. FDP on "AI/ML"

- Participants : Ms Divya B, Ms Vidhya S S, Ms Anu Treesa George, Ms Abhiram P, Liji Merlin Kurian, Ms Diya Rameshan, Ms. Ancy K Sunny, Dr.Reema Mathew, Dr. S Vadhana Kumari, Dr. Manoj V Thomas, Ms. Sreedaya M, Mr. Abdul Latheef, Dr. Jeethu V Devasia, Ms. Thripathi P Balakrishnan
- Date : 10/05/2023 - 14/05/2023

10. Training program on "Java Full Stack"

- Participants : Ms Divya B
- Date : 23/01/2023 - 10/02/2023

11. FDP on "Blockchain Technology"

- Participants : Ms Divya K
- Date : 03/04/2023 - 08/04/2023

12. FDP on "Artificial Intelligence"

- Participants : Ms Anit Thomas M, Mr Akhil K K, Ms Ujwala Vijayan
- Date : 16/01/2023 - 20/01/2023

13. FDP on "Recent Advances in Data science,Data Analytics and cyber security"

- Participants : Ms Anit Thomas M
- Date : 01/03/2023 - 05/03/2023

14. FDP on "Distributed Computing"

- Participants : Ms Najira Salam, Ms Rajitha K V, Ms Ujwala Vijayan, Ms Anu Treesa George, Ms Jijina M T, Ms Rahna C M, Ms Sisna P, Ms Abhiram P, Ms Sreelakshmi M, Ms Suhada C
- Date : 30/01/2023 - 01/02/2023

15. FDP on "Software Testing"

- Participants : Ms Jijina M T, Ms Rahna C M, Ms Sisna P
- Date : 03/03/2023 - 04/03/2023

16. FDP on "Cloud Computing"

- Participants : Ms Abhiram P, Ms Sreelakshmi M
- Date : 30/01/2023 - 01/02/2023

17. FDP on Python Programming and Its Applications

- Participants : Dr. Roshni T V, Ms. Grace John
- Date : 26/09/2022 - 30/09/2022

18. FDP on Recent Trends in Grid Integration

- Participants : MS.LALY JAMES, TINTU GEORGE T, ATHIRA M THOMAS
- Date : 30/01/2023 - 03/02/2023

19. FDP on Emerging trends in power electronics and control for electric vehicle and smart grid

- Participants : TINU FRANCIS, PRABIN JAMES, ATHIRA M THOMAS
- Date : September 19 -23, 2022.

20. FDP on Importance of Outcome Based Education in Modern Education Setup

- Participants : Dr Christopher E Singh, Dr.P Sridharan
- Date : 21-22 September 2022

21. FDP on Contemporary Breakthrough in Tech and Industry 4.0

- Participants : Mr Ryne P M, Mr.Appu C Kurian, Mr Aji Augustine, Mr Arunlal M P, Mr.Gokulnath R, Mr Josy James, Mr Mejo M Francis, Mr Rameshan K P, Mr Ramprasidh, Mr Shaji George, Mr. Midhun Mukundan
- Date : 22-24 August 2022

22. One Week Hands on Research Oriented Workshop on Design of Experiments

- Participants : Mr. Midhun Mukundan, Mr. Dilin Dinesh, Dr Jithin EV
- Date : 29 Aug-03 Sept 2022

This report highlights the active participation of faculty members in various Faculty Development Programs (FDPs) and workshops during the academic year 2022-23. The programs covered a wide range of topics including Artificial Intelligence (AI), Machine Learning (ML), Blockchain Technology, Outcome-Based Education (OBE) Philosophy and Practice, Distributed Computing, Software Testing, and more. Faculty members from different departments engaged enthusiastically in these programs, aimed at enhancing their expertise and capabilities across diverse domains of engineering and education.