

# Vimal Jyothi Engineering College

Chemperi, Kannur-670632  
(Under the Archdiocese of Thalassery)

Approved by AICTE New Delhi and affiliated to APJ Abdul Kalam Technological University (KTU).  
Accredited by NAAC and NBA, ISO 9001:2015 certified Institution



## Annual Report

(For the Academic Year 2023-2024)

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## **About the institution**

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 of the Institution:**

“To bloom into a Centre 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 of the Institution:**

“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.”

## **Highlights of the institution**

- **Accredited by NAAC**
- **NBA Accredited Programs-B.Tech CE, CSE, EEE, ME, ECE, and AEI**
- **Highly qualified and experienced faculty.**
- **Very high pass percentage among engineering colleges of the state.**
- **Q-Lead Certification**
- **ISO 9001:2015 certified Institution**

# **ANNUAL REPORT**

**2023-24**

## **ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT**

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## Introduction

The Electrical and Electronics department is very delighted to state that the 19<sup>th</sup> batch have successfully completed the course in 2023-24. 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 are proud to highlight the achievement of NBA accreditation this year, a significant milestone that underscores our department's commitment to excellence in education and quality standards.

## Academic activities

- Admission for the academic year 2023-24 started during the month of July 2023. We could get an intake of 29 students.
- Jyothirgamaya 2023, the inaugural function of first year student academics was conducted on 4<sup>th</sup> September 2023.
- The department could produce an overall pass percentage of 50% for its 2020-24 batch.
- Out of 30 students 22 of them got placed in various companies.

## Department activities

1. IEEE Engineers day Talk- An Introduction to Electric vehicle Technology and Trends on 15/9/23-IEEE SB,IEEEPES, IEEE PELS.
2. Talk on Economic Load Dispatch On 27/9/23-IEEE SB ,IEEE PES, IEEE PELS.
3. NSS orientation programs for second year students of Vimal Jyothi Engineering College was conducted on 6th September 2023. Program was inaugurated by Dr.Benny Joseph. NSS Program Officers Akhil, Leena, and Rojith led the program which was attended by around 110 students.
4. The training programmes were conducted by Training and placement cell (TPC), VJEC in August 2023.
5. Manager Rev. Fr James Chellamkottu chaired a department staff meeting on 13/08/23. Discussion mainly focused on the overall development of the department and the measures to improve the academics.
6. Semester 7 students attended a Group Discussion (GD) session conducted by TPC at the board room in August 2023.
7. IEEE SB VJEC organized an Arduino workshop on 27/9/2023 in collaboration with Rever Tech Technologies Pvt Ltd.
8. Department celebrated after NBA reaccreditation up to 2025 on 5th October 2024.
9. S3 PTA meeting was conducted on 20th October 2023.
10. Mr. Murshid Musthafa, Facility Engineer Engie- Energy Solutions-2018 passout interacted with students in October 2023.
11. A workshop was conducted for S5 and S7 students on “how to face an interview”- By Mr. Jithin K Jose.

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12. PTA meeting of S1 EEE is conducted on 27/10/2023.
13. An energy quiz was conducted by KSEB at Valloppilly hall on 21.11.23.
14. Tech Fest-TEKSCIO 5.0 was conducted on 4th December 2023.
15. Value added program on Fundamentals on Arduino was organised from 8th December 2023 to 12th December 2023. This course was organized in collaboration with Neovent Innovations.
16. EEE Alumni meet held on 23rd December 2023.
17. Placement training for S8 students Phase I from 14/02/2024 to 20/02/2024 - By Wartens, Bangalore, sessions handled by Mr. Harivishwa R, Mr. JishnuRaj and Mr. Elttin Joy and Phase II from 13/03/2024 to 26/03/2024 at Wartens, Bangalore.
18. A webinar on Introduction to Research methodologies conducted on 12th February 2024 from 11.30 am to 12.30 pm. The speaker of the event was Dr. Noby George, Systems Engineer, Allegro Microsystems, Czech Republic.
19. The Department of Electrical and Electronics Engineering, in association with Reverttech, organised a value-added course on artificial intelligence and machine learning for S6 EEE students from February 21 to February 25, 2024, at the AEI Research Lab.
20. IEEE PELS conducted a science day quiz on 28th Feb 2024.
21. International Women's day was observed on 8th March 2024 with an event Invest in Women:Accelerate progress by Prof. Elizabeth Rita Samuel,Associate Professor, Rajagiri School of Engineering and Technology, Secretary WiE, Kerala section.
22. A Distinguished Lecture Program on Autonomous ground vehicles and Intelligent transportation system by IEEE RAS took place on 18th March 2024. The session was handled by Dr. Christina Olaverri-Monreal, HoD Intelligent Transportation Systems, Johannes Kepler University Linz, Austria.
23. S6 Students along with two Faculty and a parent visited Goa Dairy farm on 02/05/2024.
24. S4 Students along with two Faculty and a parent visited Pallivasal Hydro Electric power plant- KSEB Ltd. on 03/05/2024.
25. 2020-24 EEE Batch farewell function took place on 30/04/2024.
26. Mr. Awsin Bhaskar, Senior RPA Developer, Billennium India interacted with S4 and S6 students on 10th May 2024.
27. As part of the IEEE PELS Day on June 20th, a poster design competition centered around the theme "Emerging Trends in Power Electronics" and a quiz was organized.
28. EEE organized a three-day Hybrid Faculty Development Programme (FDP) focused on "AI @ ENERGY EFFICIENCY" from June 26 to June 28 2024.
29. Organized a Value Added Course on "Fundamentals of Python" from July 17th to July 20th specifically for S5 EEE students. This course was organized in collaboration with Neovent Innovations.
30. On the 27th of July 2024, from 9:00 AM to 4:30 PM, a one-day Arduino workshop titled "Pitch Your Spark" was conducted at Naduvil Higher Secondary School, aimed

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specifically at Plus Two students. The resource person for the event was Dr. Muhammed Suhail, a Robotics Engineer from Deepflow Technologies Pvt. Ltd.

## **Faculty Achievements/ publications**

1. Dr.G.Justin Sunil Dhas published a paper Titled "Power line Voltage Sag Mitigation by Dynamic Voltage Restorer using ANN optimizationTechnique Approach", in International Journal of Scientific Research in Engineering and Management".
2. Ms. Shelma George Published a paper titled "Fuzzy-Based Control Strategy for Supercapacitor Assisted Battery Powered EV" in IEEE Xplore.
3. Dr. Teena George participated as an external expert for the NBA mock visit at GCE KANNUR on 05/08/23.
4. Dr. R. Senthilkumar Sponsored Research Paper Published - Design And Implementation Of 2 Kw Off-Grid Photovoltaic Systems With Maximum Power Point Tracking Using Pso Algorithm Operating Under Partial Shading Conditions - ARPN Journal of Engineering and Applied Sciences.
5. Dr.G.Justin Sunil Dhas published a patent on the title "Artificial Intelligence (AI) Enabled Cyber Security Threat Detection And Response System" dated 06/10/2023.
6. Assoc. Prof. Tintu George and Dr. Teena George attended IEEE ALL KERALA BRANCH COUNSELORS AND CHAPTER ADVISORS CONGRESS - 2023 on 14th of October 2023 at Abad Plaza, Kochi.
7. Assoc. Prof. Tintu George evaluated 30 projects for the Young Innovators Programme under Kerala Development and Innovation Strategic Council in October 2023 .
8. Dr. Teena George has acted as a reviewer for 2023 International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics and 7th International Conference on Computer Applications in Electrical Engineering-Recent Advances, 2023.
9. Prof. Laly James and Asst Prof Athira M Thomas attended five days offline FDP on recent trends in Electric vehicle and renewable energy integration from 11-15 Dec 2023 at Govt Engg College, Wayanad.
10. Dr.G.Justin Sunil Dhas participated in AICTE ATAL FDP titled " Emerging Significance of Artificial Intelligence in Health Care and Education: Current Perspectives." from 11th to 16th December, 2023, Organised by "Srinivas Institute of Technology, Mangaluru".
11. Asst. Prof. Prabin James is selected as Secretary, IEEE Education Society- Kerala Chapter- 2024
12. Assoc. Prof. Tintu George was awarded a certificate of appreciation in recognition of her outstanding dedication and support as the ambassador of the IEEE PES DAY 2023.
13. The Patents filed through Allinnov R&D of the projects guided by the following faculty members have been published-Prof. Laly James, Dr. Justin Sunil Dhas, Dr. R. Senthil Kumar, Dr. Teena George, Assoc Prof Tintu George, Asst. Prof Prabin James, Asst. Pro Tinu Francis, Asst. Prof Shelma George, Asst. Prof Athira M Thomas, Asst. Prof Rojith K.
14. Dr. Teena George, Assoc. Prof., EEE, and Mr. Prabin James, AP, EEE, attended Institute Innovation Cell Regional Meet, at Kochi on 16th January.
15. Mr. Rijoy G. N. attended NSS- Empanelled training at Trivandrum.
16. Department Advisory board meeting conducted on 24th January 2024.

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17. Assoc. Prof. Tintu George received Evolve 360 Bootcamp certificates from Kerala Startup Mission
18. Prof. Laly James attended FDP on counselling and academic mentoring organized by the Human Resource Development centre (HRDC) of KTU at Vimal Jyothi Engineering College from 27.02.2024 to 02.03.2024.
19. Ms. Tintu George T., Ms. Tinu Francis, Ms. Jyothi Joseph, Ms. Athira M. Thomas and Ms. Keerthana T. V., participated in 5 Days Online Faculty Development Programme on the topic “Opportunities of Power Electronics in Smart Grid, Renewable Energy Resources and Electric Vehicles”, organized by the Department of Electrical and Electronics Engineering, SCMS School of Engineering & Technology (SSET), Karukutty from 26/02/2024 to 01/03/2024.
20. Prof. Laly James, HoD EEE department organized an insightful workshop on "Artificial Intelligence Tools" on the 10th of July,2024 at 9:30 AM. The event was graced by the presence of Fr. Sabu Thomas, an esteemed Assistant Professor from Sacred Heart College, Thevara, who served as the resource person for the workshop.
21. Mr.Rijoy GN, Varada Anil, Sandra S Baiju, Rahana Haridas, Aiswarya C, “Advancing Electoral Processes: A Novel E-Voting Model Integrating Iris Scans, Raspberry Pi, and Blockchain Technology”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
22. Ms.Tintu George T, Alen Jose Benny, Amrith Raj M V , Arjun Lal , Rohan K V, “Powering Tomorrow: Innovation in Smart Energy Metering and Management”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
23. Ms.Tinu Francis, Agil Mathews Antony, Ronith Sajeev, Vaibhav O, Albin James, “Detection of Fault in Solar Panel Using Thermal Image Processing ”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
24. Dr. G Justin Sunil Dhas, Amar Pradeep, Anfas P , Antony Thomas, “Transforming Energy from Garbages”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
25. Ms.Jyothi Joseph, Aleena K Shibu, Relvin Roshan, Vaishnav E, Vyshnav MK “Solar Powered Air Purification and Cooling”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
26. Ms.Athira M Thomas, Abishek Vinod M, Akshath Ashokan V, Aswin Raj, Sreelakshmi Rajeev, “IoT- Based Drowsiness Monitoring and Crash Detection System to Enhance Road Safety”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
27. Dr. Teena George, Abhishek K, Deno Baby, Ebin John, Sebin M S “Cadio Interfaced Smart Home with IoT Enabled Automation Systems”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
28. Ms.Keerthana T.V, Amal Raj, Mohamed Shibili, Ivin Denny “OCR Based Facilitator for the Visually Challenged”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.

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## Student's Achievements

1. Mr. Sebin M. S. of S7 EEE has been selected for KTU Volleyball team and has secured 4th position in the intercollegiate Volleyball championship.
2. Varada Anil, Sandra S Baiju, Rahana Haridas, Aiswarya C, Mr.Rijoy GN, published a paper on “Advancing Electoral Processes: A Novel E-Voting Model Integrating Iris Scans, Raspberry Pi, and Blockchain Technology”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
3. Alen Jose Benny, Amrith Raj M V , Arjun Lal, Rohan K V, Ms.Tintu George T, published a paper on “Powering Tomorrow: Innovation in Smart Energy Metering and Management”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
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5. Amar Pradeep, Anfas P, Antony Thomas, Dr. G Justin Sunil Dhas, published a paper on “Transforming Energy from Garbages”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
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8. Abhishek K, Deno Baby, Ebin John, Sebin M S, Dr. Teena George, published a paper on “Cadio Interfaced Smart Home with IoT Enabled Automation Systems”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.
9. Amal Raj, Mohamed Shibili, Ivin Denny, Ms. Keerthana T.V, published a paper on “OCR Based Facilitator for the Visually Challenged”, “International Journal of Scientific Research in Engineering and Management (IJSREM)” Volume: 08 Issue: 04 | April – 2024.

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**VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI**

**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION**

**ANNUAL REPORT 2023-24**

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

The 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:**

<b>Academic Year</b>	<b>Sanctioned Intake</b>	<b>Actual Intake</b>
2023-24	30	15

### **RESULT:**

<b>Academic Year</b>	<b>No: of students Graduated</b>
2023-24	4/21

### **DEPARTMENTAL ACTIVITIES:**

- Department of EIE conducted Five day Add on Course on Machine Vision and Artificial Intelligence in Robotics for final year and pre-final year students of AEI. The course was conducted on 30/09/2023, 07/10/2023, 14/10/2023, 21/10/2023 and 28/10/2023.
- Department of Electronics and Instrumentation and IEDC VJEC conducted Innovative Technologies Workshop on Electronics Prototyping for second year AEI students on 18/11/2023
- Department of Electronics and Instrumentation conducted Add-on course on System Design using Arduino in association with Progressum Edutech Pvt Ltd, from 27.02.2024 to 02.3.2024.
- Students from Residential Women's Polytechnic College, Payyannur, visited the Process Control Lab at Vimal Jyothi Engineering College. The visit was organized as a part of the Automation Lab curriculum, providing students with practical insights into process control systems and industrial automation.

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- Organized a one-day regional boot camp on Hands-On Robotics Workshop for +1,+2 students with a keen interest in prototyping and project development on 6<sup>th</sup> January 2024, as the part of VJEC Institute Innovation Council, in collaboration with the Innovation and Entrepreneurship Development Cell.
- Conducted one day workshop on IPR and Technology Transfer on 4<sup>th</sup> January, organized by VJEC INSTITUTE INNOVATIVE COUNCIL.
- Department of Electronics and instrumentation provided Placement oriented training program on Industrial Automation for the final year students of the batch 2020-24 AEI as a part of MOU with WARTENS technologies LLLP, Bangalore from 26th February to 25th March 2024.
- Alumni Interaction:
  - Alumni of 2015-19 batch, Mr. Arun Joseph, Mr. Anand, Mr. Rahul K, Mr. Robin, Ramesh, Mr. Yadukrishnan Mavila & Ms. Thara P Murali interacted with Final year students of Electronics & Instrumentation Engineering on 24<sup>th</sup> January 2024.
  - Sharaf Ali P & Dhanesh of 2006-2010 Batch interacted with second year and final year students of Electronics and Instrumentation Engineering on 12<sup>th</sup> December 2024.

**FACULTY ACHIEVEMENTS / PARTICIPATION:**

- Dr. G Glan Devadhas and Dhanoj M attended 3 days Industrial Training at Forbes Marshal industry at Chakan, Pune and OM industries at Pimpri, on 6<sup>th</sup> to 9th February 2024.
- Mr. Dhanoj M, Mrs. Shamyia A, Mrs. Reshma K V & Ms. Jinsa Mathew attended Five days Training Programme on "Counseling & Academic Mentoring" on 27.02.2024 - 02.03.2024, organized by the HRD centre, APJABDUL KALAM TECHNOLOGICAL UNIVERSITY, at Vimal Jyothi EngineeringCollege.
- Dr. G Glan Devadhas, Mr. Shinu M M, Ms. Shamyia A, & Ms. Jinsa Mathew attended one day workshop on IPR and Technology Transfer on 4<sup>th</sup> January 2024, at VJEC
- Mr. Dhanoj M coordinated one day workshop on IPR and Technology Transfer on 4<sup>th</sup> January, organized by VJEC INSTITUTE INNOVATIVE COUNCIL.

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- Dr. G Glan Devadhas attended 5 days FDP on Building Advanced Data Analytics with cloud on 11th- 15th September 2023.
- Ms. Reshma K V attended 5days STTP on Machine learning and Data analytics on 7th July -11th July 2023.
- Ms. Reshma K V & Ms. Jinsa Mathew attended 5 days FDP on Research methodologies quantitative and qualitative research on 5th - 9th February 2024.
- Ms. Shamyia A attended 5 Days STTP on Fundamentals on Quantum computing and Quantum Machine learning on 4th - 8th December 2023.
- Ms. Shamyia A attended Workshop on FinFE, Nano Sheet Cell Design, Now & Road Ahead, on 29th - 31 August 2023.
- Ms. Shamyia A attended FDP on Machine learning using Python on 16th -18th February 2024.
- Ms. Jinsa Mathew completed Online non-credit course on Industrial Internet of Things (IIoT) by University of Michigan and offered through Coursera.
- Ms. Jinsa Mathew completed Online non-credit course on Digital Twin by University of Michigan and offered through Coursera.
- Ms. Jinsa Mathew completed Online non-credit course Additive Manufacturing - by University of Michigan and offered through Coursera.

### **STUDENTS ACHIEVEMENTS:**

- Aida Thomas, Anurag EV, Jasmine PTK, Merin Saji, and Muhamed Razeen of S6 AEI completed one month internship on Quality control and Production at IPA Pvt Ltd., Bangalore.
- Athul PP and Adith T P of S4 AEI Participated in 3 days Industrial Training on Calibration at -Tech Engineering Services, HRRL Refinery, RAJASTHAN

### **STUDENT PLACEMENT:**

1. Mr. Ajay K P :Calibration Engineer in HTA Instruments Pvt Ltd.
2. Mr. Akhil M A :Calibration Engineer in HTA Instruments Pvt Ltd.
3. Mr. Akshar M :Calibration Engineer in HTA Instruments Pvt Ltd.
4. Mr. Akshay M :Calibration Engineer in HTA Instrumen

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5. Mr. Alen Joe Prince :Calibration Engineer in HTA Instruments Pvt Ltd.
6. Mr. Aswin T S :Calibration Engineer in HTA Instruments Pvt Ltd
7. Mr. Dipuraj M :Calibration Engineer in HTA Instruments Pvt Ltd
8. Mr. Hirandeeep T :Calibration Engineer in HTA Instruments Pvt Ltd
9. Mr. Joyal Saji :Calibration Engineer in HTA Instruments Pvt Ltd
10. Mr. Kevin Saji :Calibration Engineer in HTA Instruments Pvt Ltd
11. Mr. Kiran K V :Calibration Engineer in HTA Instruments Pvt Ltd
12. Mr. Revanth P V K :Calibration Engineer in HTA Instruments Pvt Ltd
13. Mr. Tom Jessan. :Calibration Engineer in HTA Instruments Pvt Ltd
14. Mr. Alan Sunny :Izado Solutions Pvt Ltd
15. Mr. Muhammed. Sahl :Izado Solutions Pvt Ltd
16. Mr. Aswin Vinod C :Oriental Automation System
17. Mr. Anargh K :GMIHU Automation
18. Mr. Jude Jomon :GMIHU Automation
19. Mr. Vyshnav K : AKTIS

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

**Annual report  
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## **Programmes conducted:**

1. Dr. VRA Saathappan organised online Virtual Training on Sustainable Development Goals - UN Agenda 2030 on 31st May, 2023. All faculties of the department has attended the online Virtual Training on Sustainable Development Goals - UN Agenda 2030 on 31st May, 2023,

## **Department Achievements**

1. Department of Civil Engineering got accredited by Competent Authority in NBA for the B.tech programs on the basis of Compliance Report for the Academic Years 2023-2024 to 2025-2026 i.e. up to 30-06-2026.

## **Faculty achievements:**

1. Mr. Abhijath I P has participated in a workshop "Integrate your data with FME platform" workshop conducted by safe software.
2. Ms. Anitta Jose has successfully completed 5 modules of NITTT.
3. Mr. Abhijath I P has participated in a workshop 'Going places With Spatial Analysis: Esri MOOC'
4. Dr Vibhoosha MP has presented a paper titled 'Performance Evaluation of Stone column Reinforced Shedi soil'' at international conference on Sustainable infrastructure Innovations, opportunities and challenges

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## Student achievements

1. Mr. Rithin T Ramesh of 2019-23 batch has earned a Bachelor of Technology (BTech) degree with honors.
2. Ms. Sreeshma Govindan of 2019-23 batch qualified GATE 2023.
3. Mr Muhammad Rasy PC, Ms.Sreelakshmi E, Ms. Thanwi Rajeev, Mr. Razzen Moosa V published an article entitled 'Land Use Land Cover Mapping of Kannur District' in International Journal of Engineering, Mangaement and Humanities
4. Treesa Wilson, Sankeerthana M, Anagha K P and Sreeshma Govindan of 2019-23 batch has got placement offer from Aarbee Structures.
5. Pavithra T A got placement offer from Qspiders.
6. Ms. Sreeshma Govindan of 2019-23 batch qualified GATE 2023
7. Parvathi K C, Sreelakshmi Gokuldas P K, Keerthana K Chandran,P Revathi and Gokul Haridas of 2020-24 batch secured 2<sup>nd</sup> position in F-Zone and 3<sup>rd</sup> position in Inter-Zone KHO-KHO competition.
8. Parvathi K C of 2020-24 batch has participated in Inter-University KHO-KHO competition
9. Ms.Anamika P.K has participated in the discipline of yoga in YOGASANA event acquired first position in the Kannur District Yogasana sports championship.
10. Vishnu M V, Anandhu P V, Vismaya Mohan K, Nithin Jose, Arya Soman, Aswathi T P, Athira Ramesh, Neha Sasindran, K N Rohith got placed in ORBIT ENGINEERING SERVICES.

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# VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI

## Department of Computer Science And Engineering

### Annual Report 2023-24

#### 1. Introduction

The academic year 2023–2024 was truly remarkable, showcasing how great achievements stem from the culmination of small, consistent efforts. Through excellent collaboration, we have achieved commendable outcomes. As we present the annual updates of our activities, we take pride in having strived to accomplish everything as planned.

We are especially proud of our students and teachers for their relentless efforts to exceed expectations and unlock their full potential. Prioritizing the holistic development of our students has remained at the core of our mission. Amidst the repositioning, restructuring, and refocusing of academic sessions, we have consistently fostered an environment within the department that nurtures young minds, promotes independent thought, and facilitates the comprehensive development of each student's personality.

This **Annual Report** highlights our activities and accomplishments for the academic year 2023–2024.

#### 2. Admission

The academic year 2023–2024 witnessed a record number of applicants, with 432 successfully enrolling across various programs, including 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 with Business Systems (BE).

Additional Information:

[https://docs.google.com/document/d/1du1qHOOW507kr48LUKdK3WbN0wSom8swaQaA\\_5t8gxo/edit?usp=sharing](https://docs.google.com/document/d/1du1qHOOW507kr48LUKdK3WbN0wSom8swaQaA_5t8gxo/edit?usp=sharing)

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### 3. Result

Students at VJEC achieved impressive results across various semesters: 92.23% in S8 CSE(2020-24 batch), 91.16% in S7 CSE(2020-24 batch), 76.79% in S6 CSE (2021–2025 batch), 79% in S5 CSE(2021–2025 batch), 79.25% in S4 CSE (2022–2026 batch), 72.34% in S3 CSE(2022–2026 batch), 71.19% in S2 (2023–2027 batch), 74.48% in S1 (2023–2027 batch), 100% in S8 ADS(2020-24 batch), 97% in S7 ADS(2020-24 batch), 82.14% in S6 ADS(2021–2025 batch), 67.85% in S5 ADS(2021–2025 batch), 64.06% in S4 ADS(2022–2026 batch), 70.31% in S3 ADS(2022–2026 batch), 74.22% in S2 ADS (2023–2027 batch), 70.40% in S1 ADS(2023–2027 batch), 70.73% in S4 BE(2022–2026 batch), 65.85% in S3 BE(2022–2026 batch), 48.38% in S2 BE (2023–2027 batch), 45.16% in S1 BE(2023–2027 batch), 71.79% in S6 CG(2021–2025 batch), 71.79% in S5 CG(2021–2025 batch), 63.1% in S4 CG(2022–2026 batch), 49.12% in S3 CG(2022–2026 batch), 72% in S2 CG(2023–2027 batch), 76% in S1 CG(2023–2027 batch), 79.31% in S4 CC(2022–2026 batch), 60.34% in S3 CC(2022–2026 batch), 75% in S2 CC(2023–2027 batch), and 63.89% in S1 CC(2023–2027 batch).

Additional Information:

<https://docs.google.com/document/d/1hNsT2k2sXGUQURC8jPNbDc0ZRiswwKsDHL94ikvJAa0/edit?tab=t.0>

### 4. Placement

In the academic year 2023-24, 88 out of 180 CSE students and 3 out of 32 ADS students secured placements in various sectors.

Additional Information:

<https://docs.google.com/document/d/1x74gREGzNPNTuwAUDmoD5nCCn6Z6XXBi4w3Kx6vIWn4/edit?tab=t.0>

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

- An add-on course on “Internet of Things” was organized by the Department of CSE on September 19, 20, 21, 22, and 23, 2023, for the students of S3 CSE. The coordinators, Ms. Neena V.V., Dr. Vidhya S.S., and Ms. Najira Salam, collaborated with Techgenius Innovations Pvt. Ltd. (Crinnolabs) to provide training on various aspects of IoT.

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- An add-on course on “Open Source Framework - Flutter” was organized by the Department of CSE from September 14th to 26th, 2023, for the students of S5 CSE. The S5 faculty advisors coordinated the course in collaboration with Alisons Informatics (P) Ltd.
- The Department of CSE (BE) organized an add-on course on “Data Analytics Using R Programming” from October 11 to 15, 2023, for the students of S3 CEBS. The course was led by Prof. Siju K S, Associate Professor, in collaboration with Saint Gits College of Engineering, Kottayam.
- A four-day workshop on Deep Learning was conducted for 7th-semester Artificial Intelligence and Data Science (ADS) students on 18th and 19th August 2023 and 29th and 30th September 2024. The resource person was Binil Kuriachan, Senior Applied Scientist at Microsoft.
- A five-day add-on course on Mobile Application Development using Flutter was organized for 5th-semester ADS students from 4th to 8th November 2023. The resource person was Mr. Nidhin P K, Software Developer at Alison Informatics (P) Ltd.
- A seminar on Data-Driven Destiny: Mapping Careers in Data Science was held on 5th March 2024 for S6 ADS students. The resource person was Suryarjuna Gopakumar, Founding Engineer - AI at Astuto.
- A five-day add-on course on “CodeCraft: Mastering Desktop Application Development” was conducted from 22nd to 26th November 2023 for S3 ADS students. The resource person was Rajesh P Iyer, Software Developer at Progressum Edutech Pvt Ltd.
- A hands-on workshop on “CodeCaze: Dive into the World of PHP” was organized on 5th March 2024 for S4 ADS students. The resource person was Ms. Lincy A V, Senior Software Developer at VJEC.
- The Department of Computer Science & Design Engineering at Vimal Jyothi Engineering College, Kerala, signed a Memorandum of Understanding (MoU) with M/S XR HORIZON Pvt. Ltd. on October 1, 2023. This collaboration aims to foster the development of engineering students.
- CSE (Cyber Security) conducted an add-on course on ‘Bug Hunting’ for S3 students from October 9 to October 15, 2023.
- CSE (Cyber Security), Vimal Jyothi Engineering College, Kerala, signed a Memorandum of Understanding (MoU) with Aesthetix Innovations LLP to enhance the development of engineering students.
- CIPHER, the tech fest of the Cyber Security program at Vimal Jyothi Engineering College, was held on 5th December 2023 as part of the national-level college tech fest Tantra '23.

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## 6. Achievements - Department/Faculty/Student

### Student

- Devika K, Abhijith P, Abhinav C V, Adwaith K, Annamol Thomas, Anush A E, Aryasree V K, Ashwath Shiva P, Benedict Jiji, Deva Nanda M, Devika Prasad, Edwin Roychan, Fathimah Saffa, Gayathri Rajesh, Hana Fathima, Jion Biju, Juvanita Biju, Nanda Rajesh, Nandukishore T S, Nizal K P, Sandhra K P, Sankeerth M M, Savin Babu, Shobin Bhaskaran, Suhana Abdulla, Theertha Ramesh, and Vyshakh Vinodkumar, students of S4 CSE C, successfully completed the course Programming in C on February 12, 2024, organized by Infosys, Springboard.
- Ajay Joy, from S4 CSE C, successfully completed his internship in Artificial Intelligence from January 5, 2024, to February 5, 2024, organized by Corizo.
- Savin Babu, from S4 CSE C, successfully completed the Investment Banking Job Simulation on May 13, 2024.
- Sebastian Roshan, Adwaith K, Gayathri Rajesh, Hana Fathima M V, Jion Biju, and Juvanitha Biju, students of S4 CSE C, attended a one-day workshop on Cyber Security and Ethical Hacking organized by Techmaghi in association with Tryst'24, IIT Delhi, on November 25, 2023.
- T J Delna, Prajna Shetty, Saniya P V, and Fathimath Nihala P from S4 CSE B successfully completed an internship in Python Full Stack Development at TechMaghi, Startup Village, Kochi.
- Aadhith Subhash, Aaron Roy, Adarsh P S, Adith R Nambiar, Adithya Byju, Adwaith K, Alen Sales K S, Archana P I, Ivin Sunny, Mahima Joseph, Sangeeth M, Nandana N, Sangeeth M, and Sooraj S S, students of S5 CSE C, participated in the workshop CyberRelay organized by Tantra 23 Techfest at VJEC.
- Anupama M V and Treesa Binoy, students of S5 CSE C, attended the workshop on Revenue Generation with AI and Beginner's Basics on Cyber Security and Ethical Hacking conducted by IEEE SBCOT at GECK Thalassery.
- Abhinav K, Sidhardh Babu, and Sudev P V, students of S5 CSE C, attended the workshop on Self-Driving Electric Vehicles organized by Techmaghi in association with IIT Kharagpur.
- Adith R Nambiar, Adithya Prashanth K, Alan Jolly, Anupama Joseph, Aswini C, Derick Sebastian, Ivin Sunny, Nadish K, Nihedya O P, Nithya K Unni, Savya N, Sejal S L, Sooraj S S, Soorya K P, Sreeganga C, and Swetha Paleri, students of S5 CSE C, attended the workshop on Cyber Security and Ethical Hacking organized by Techmaghi in association with IIT Delhi.
- Muhammad Shazil K K and Nadish K, students of S5 CSE C, attended the workshop on Artificial Intelligence with Python organized by Techmaghi in association with IIT Kharagpur.
- Thejus Prasoon, a student of S5 CSE C, attended the workshop on Embedded Systems in EV organized by Techmaghi in association with IIT Kharagpur.

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- Aadhith Subhash, Gautham Raghu, Adithya Byju, Adithya Prashanth K, Alan Jolly Cheeramvelil, Amal Krishna M, Angelin Maria Jose, Ann Mariya K J, Anupama Joseph, Archana P I, Aysha Nuzha Nazeer, Fiyona Antony, Ivin Sunny, Jeslin Jestine, Liya Thomas, Mahima Joseph, Nadish K, Nandana N, Nithya K Unni, Pranav P, Sangeeth M, Sooraj S S, Sudev P V, Swathi Dinesh, Swetha Paleri, Thejus Prasoon, Unni Krishnan V, and Vaishna PP, students of S5 CSE C, completed the workshop on The Internet of Things (IoT) conducted by CRINNOLABS at Vimal Jyothi Engineering College, Kannur.
- Ann Mariya K J and Liya Thomas, students of S5 CSE C, attended the workshop on INTRO TO C, a beginners' workshop conducted by ACM, Kollam, in association with VJEC ACM Chapter.
- Sejal S L, a student of S5 CSE C, attended the workshop on DIY Smarthome Demonstration and How to Create Your Own Web Things organized by NIT Calicut.
- Adharv S Kumar, a student of S6 CSE B, has qualified for GATE 2024.
- Anna Maria a student of S6 CSE B, completed the Foundation of Cloud IoT Edge ML course from the NPTEL online platform from February to April 2024.
- Karthik P a student of S6 CSE B, completed the Python for Data Science course on the NPTEL online platform from January to February 2024.
- Gopika Gireesh N. G., a student of S4 CSE A, secured second place in the University Inter-Collegiate (Inter-Zone) Women's KHO-KHO Championship, held at Govt. Engineering College, Palakkad, on December 8th and 9th, 2023, for the academic year 2023-2024.
- Students of the 2023-2027 Batch D have showcased outstanding sportsmanship at the zonal level. Vishnupriya and Devapriya secured the runners-up position in Women's Kho Kho, Clive Rojer emerged as the winner in Men's Kho Kho, and Sravan M achieved third place in Football.
- The Department of CSE, in collaboration with Evolve Robotics, organized an enriching add-on course on "Deep Learning with Python" for the S7 CSE students. The program was conducted on September 13, 14, 15, 23, and 24, 2023, under the guidance of the S7 faculty advisors, who served as coordinators for the event.
- Abhinav Viswanath, Anson Leon Sebastian, and Anigeth K K from the 2020-2024 CSE B batch have achieved the remarkable feat of qualifying for GATE, showcasing their dedication and academic excellence.
- Amal K Philip, S2 CSE B, completed an IoT Internship and attended the IoT Workshop conducted by Qnayds LLP.
- Savio Joshy, S2 CSE B, participated in the Cyber Relay Workshop (Techfest VJEC).
- Krishna S Hariharan, S2 CSE B, completed the Infosys Certification Course, attended the Cyber Relay by Farhan Bin Fazil (Tantra'23), and participated in the Treasure Hunt (Tantra'23).
- Gouthami V, S2 CSE B, participated in the Cyber Relay Workshop (Techfest'23 VJEC) and completed the Infosys Certification Course in C Programming.
- Abhinav Devasia, S2 CSE B, attended the Cyber Security and Ethical Hacking Workshop and the Webinar on Child-Robot-Interaction using Social Robots (IEEE SB JECC).
- Mathew George, S2 CSE B, completed the Infosys Certification Course and participated in the Treasure Hunt (Tantra'23).
- Anwin Jacob Jose, S2 CSE B, completed the Programming, Data Structures, and Algorithms in Python course (NPTEL).

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- Adwaith Suresan, S2 CSE B, participated in the Cyber Relay Workshop (Techfest: VJEC), Tech Trivia (Techfest: VJEC), and the 5 Days Workshop on Internet of Things.
- Devangith P.R, S2 CSE B, completed the Infosys Certification Course in C Programming and attended the Sustainability and Challenges Workshop (NIT Calicut).
- Sreelakshmi T, S2 CSE B, completed the Infosys Certification Course in C Programming and participated in the Treasure Hunt (Tantra'23).
- Sanjana Jayakumar, S2 CSE B, completed the Infosys Certification Course in C Programming and participated in the Treasure Hunt (Tantra'23).
- Veda Smijesh, S2 CSE B, attended the Webinar on Cybersecurity in IoT (IEEE).
- Sharafiya K, S2 CSE B, completed the Infosys Certification Course in C Programming, participated in the Treasure Hunt (Tantra'23).
- Nived Krishna MK, S2 CSE B, participated in the Cyber Relay Workshop (Techfest VJEC) and the Treasure Hunt (Tantra'23).
- Saliha K P, S2 CSE B, attended the Webinar on Cybersecurity in IoT, VR Workshop (Techfest VJEC), and the Generative AI Workshop.
- Devananda M, S2 CSE B, attended the Webinar on Cybersecurity in IoT, VR Workshop (Techfest VJEC), and the Generative AI Workshop.
- Nandhitha Prasanth, S2 CSE B, completed the Infosys Certification Course in C Programming.
- Richard PJ, S2 CSE B, participated in the Cyber Relay Workshop (Techfest VJEC).
- Ashna P P, S2 CSE B, participated in the Code Storm (Quiz) (Techfest VJEC), the Virtual Reality Workshop (Techfest VJEC), and the 5 Days Workshop on IoT.
- Advaith K, S2 CSE B, participated in the Cyber Relay Workshop (Tantra'23).
- Alona Joseph, S2 CSE B, completed the Infosys Certification Course in C Programming, participated in the Treasure Hunt (Tantra'23), and completed the Infosys Certification in C Programming.
- Malavika Raveendran, S2 CSE B, completed the Infosys Certification Course in C Programming, participated in the Treasure Hunt (Tantra'23), and attended Cyber Relay by Farhan Bin Fazil (Tantra'23).
- Nancy Johnson, S2 CSE B, participated in Cyber Relay by Farhan Bin Fazil (Tantra'23) and the Treasure Hunt (Tantra'23).
- Sidharth P, S2 CSE B, participated in the Cyber Relay Workshop (Techfest VJEC), completed the Infosys Certificate in C Programming, and participated in the Cyber Quiz (Techfest VJEC).
- Abhay K V, S6 CSE C, served as an intern at Trending Island under the project "Sides To A News" in January 2024.
- Fahmi M, S6 CSE C, attended the one-day workshop on Embedded System in EV organized by Techmaghi in association with KSHITIJ, IIT KHARAGPUR on 6th April 2024.
- Fahmi M, S6 CSE C, successfully completed a 15-day internship as part of the Fullstack Development course through Techmaghi, gaining valuable knowledge and experience in various areas of development such as JavaScript, Application Development, React, Routing, User Interface-Forms, HTTP & Databases, working with ASP.Net core, and Security Implementation. Additionally, she/he completed a project focused on an E-commerce online store for buying and managing products.

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- Vaibhav Prasannan, S6 CSE C, successfully completed the course Python for Data Science with a consolidated score of 67% in the Elite NPTEL Online Certification (Funded by the MoE, Govt. of India) in July-August 2024.
- Lakshmi Haridasan, S6 CSE C, successfully completed the course Cloud Computing with a consolidated score of 77% in Elite NPTEL Online Certification (Funded by the MoE, Govt. of India) in July-Oct 2023.
- Abhay K V, S6 CSE C, attended an internship with Four Step Process (Design With Panda) as a "Flutter Developer Intern" starting from 16/6/2024.
- Ms. Ann Mariya Sunny, S1 CSE A, was a member of the Vimal Jyothi Engineering College, Kannur team that secured second place in the University Inter-zone Softball Women Championship, held at Vimal Jyothi Engineering College on December 20-21, 2023.
- Ms. Stella Mariya, S1 CSE A, was a member of the Vimal Jyothi Engineering College, Kannur team that secured second place in the University Inter-zone Softball Women Championship, held at Vimal Jyothi Engineering College on December 20-21, 2023. She also secured first place in the University Inter-zone Basketball Women Championship, held at Vimal Jyothi Engineering College on October 28-29, 2023.
- Ms. Bisna T B, S1 CSE A, was a member of the Vimal Jyothi Engineering College, Kannur team that secured second place in the University Inter-zone Kho Kho Women Championship, held at Govt. Engineering College, Palakkad on December 8-9, 2023. She also secured second place in the University Inter-zone (F zone) Kho Kho Women Championship, held at SNGCET Payyannur on November 29-30, 2023.
- Ms. Devapriya Suresh, S1 CSE A, was a member of the Vimal Jyothi Engineering College, Kannur team that secured second place in the University Inter-zone Softball Women Championship, held at Vimal Jyothi Engineering College on December 20-21, 2023.
- Ms. Varuna V V, S1 CSE A, was a member of the Vimal Jyothi Engineering College, Kannur team that secured second place in the University Inter-zone Kho Kho Women Championship, held at Govt. Engineering College, Palakkad on December 8-9, 2023.
- Mr. Shiva A R, S1 CSE A, was a member of the Vimal Jyothi Engineering College, Kannur team that secured first place in the University Intercollegiate (F zone) Badminton Men Championship, held at Vimal Jyothi Engineering College on October 30-31, 2023, and third place in the University Intercollegiate (F zone) Football Men Championship, held at GEC, Kannur on December 21, 2023.
- Deon M Baby of the 2021-26 CEBS batch was honored with the second position in the University Intercollegiate F Zone Basketball Men Championship, held at Vimal Jyothi Engineering College on 29th October 2023.
- Amar Sai of the 2022-26 CEBS batch successfully completed the online course "Introduction to Artificial Intelligence" provided by Great Learning Academy in April 2024.
- Thaha Muhammed Yaseen (2020-24 Batch, ADS) successfully qualified the GATE EXAM 2024.
- Vaishakh P (2020-24 Batch, ADS) successfully qualified the GATE EXAM 2024.
- Adwaith Rajesh (2021-25 Batch, ADS) successfully qualified the GATE EXAM 2024.

- Mukalel Amal (2021-25 Batch, ADS) successfully qualified the GATE EXAM 2024.
- Ms. Nayana N N (2023-27 CSCY Batch) secured second position in Kho-Kho Interzone level and F Zone level.
- Ms. Deepnitha Ramachandran (2022-26 CSCY Batch) secured second position in Inter-Collegiate Kho-Kho tournament.
- Ms. Deepnitha Ramachandran (2022-26 CSCY Batch) participated in South Inter-University Kho-Kho Championship organized by Central University Tamil Nadu.

## Faculty

- Ms. Divya B, Head of the Department of CSE, attended the Infosys Springboard SPoCs meeting.
- Ms. Divya B, Head of the Department of CSE, attended the Wipro - TalentNext - Advanced Technology Program (ATP) on AI/ML.
- Ms. Divya B, Head of the Department of CSE, successfully completed the 'Basics of Python' course on Infosys Springboard.
- Mr. Rijin IK has published a patent titled "A Machine Learning-Based System for the Early Detection of Cardiovascular Diseases."
- Mr. Rijin IK has published a patent titled "A Multi-Modal Emotion Perception System and Method for Human-Computer Interaction and Personality Determination."
- Mr. Rijin IK has published a patent titled "An Augmented Reality-Based System for Intuitive Navigation of Institutional Campuses."
- Mr. Rijin IK has published a patent titled "An Integrated System for Monitoring and Tracking Faculty Members Using Machine Learning and Image Processing."
- Mr. Rijin I.K. published a book titled *Graph Theory*.
- Ms. Tintu Devasia successfully completed 8 modules under the National Initiative for Technical Teachers Training (NITTTR).
- Mr. Rijin I.K. and Mr. Abdul Latheef signed a Memorandum of Understanding (MoU) between Vimal Jyothi Engineering College, Chemperi, and Alisons Infomatics (P) Ltd., Kaoser Complex, Caltex Junction, Kannur.
- Dr. S. Vadhana Kumari presented a paper titled "Hand Gesture Recognition for Impaired Persons Using Fast RCNN Algorithm" at the IEEE International Conference on Intelligent Systems, Amal Jyothi College of Engineering, Kanjirappally, Kerala, 2023.
- Dr. Manoj V. Thomas has been elevated to the grade of Senior Member of IEEE.
- Ms. Anit Thomas M successfully completed the 8-module course under the National Initiative for Technical Teachers Training (NITTTR).
- Dr. Manoj V. Thomas published a paper titled "Walk-Through Attendance Marking System Using RFID and Face Recognition" along with Austine S. Manuel, Vaibhav Rajesh, Stephin Liji, and M. Shyamith, at ICISAS-2023.
- Ms. Silna K V published a journal paper titled "Fault Detection of Aerospace Systems Based on Binary Grasshopper Optimization Algorithm" in the International Journal of Engineering Technology and Management Sciences, 2023.

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- Mr. Akhil K K published a journal paper titled “Energy Search Optimization Multiple Nodes Algorithm for Building Monitoring System Using Hybrid Wireless Sensor Networks Protocol” in Computational Engineering and Machine Learning Algorithms, 2024.
- Mr. Akhil K K published a conference paper titled “Data Analytics Using Machine Learning for Cyber Security Safeguards Individual Privacy” in the International Conference on Innovative Computing, Intelligence Communication, and Smart Electrical Systems (ICES).
- Dr. Reema Mathew A published a paper titled "Analyzing Mobile Payment Using Blockchain Security" in the International Conference on Mobile Networks and Wireless Communications (ICMNBC).

## 7. Professional body activities

A total of nine events were organized during the academic year 2023-24 by various esteemed organizations, including IEEE, CSI, ACM, ACM-W, Red Hat Academy, the Programming Club, Coding Ninjas, and several others.

Additional Information:

[https://docs.google.com/document/d/1RYpyXefndme\\_92EeydGPOIEqqdDvJaqZQStsmkASCfQ/edit?tab=t.0](https://docs.google.com/document/d/1RYpyXefndme_92EeydGPOIEqqdDvJaqZQStsmkASCfQ/edit?tab=t.0)

## 8. Conclusion

We extend our heartfelt gratitude to everyone who has offered invaluable guidance and thoughtful suggestions over the year. The Manager and Principal of VJEC have provided exceptional advice and constructive feedback, which has been pivotal to our growth and achievements. We look forward to their continued encouragement and inspiration. A special acknowledgment goes to the Head of the Department and the dedicated members of the CSE team for their relentless efforts in meeting the challenges and upholding the standards of our institution. As we conclude, we reaffirm our unwavering dedication to the vision of “Marching Towards Progress”.

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# ***Annual Report***

## ***Dept.Of ECE***

***Academic Year:2023-24***

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## 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

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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 (2020-24 Batch)	52
Third Year(2021-25 Batch)	52
Second Year(2022-26 Batch)	50
First Year (2023-27 Batch)	43
Total No of Students	197

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## 1.Details of Faculty members

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

## 2. Details of Technical Staff

<b>Sl No</b>	<b>Name</b>	<b>Designation</b>	<b>Qualification</b>
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)

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### 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	2020-24	S8	51	28	55
2	2020-24	S7	51	41	80
3	2021-25	S6	52	38	73
4	2021-25	S5	52	40	77
5	2022-26	S4	50	29	58
6	2022-26	S3	50	36	72
7	2023-27	S2	43	22	51
8	2023-27	S1	43	24	56

#### 3.1.2 Placement

9 offers from a diverse range of companies like TECHNOLOGICS, INTRAINZ, QSPIDERS, PRAKASH GROUP , COAPPS TEACHNOOK, 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.

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### 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).

Started the IEEE Vimal Jyothi Engineering College-Kannur Signal Processing Society Student Branch Chapter in the Kerala Section

Sl. No.	Topic	Speaker	Date	Class	Students attended
1	Three Day Workshop on FPGA and Embedded Systems	Kathiru Santhi Kumar	14-12-23 to 16-12-23	S3 ECE Students	50
2	Workshop on Introduction to LiFi	Mr. Kathiru Santhikumar (Chief Technological Officer,Alisons Informatics)&Mr. Shejil.	21/12/2023 to 22/12/2023	S3 ECE Students	50

#### 3.2.2 Add-on Course

Sl. No.	Activity	Speaker	Date	Class	Students attended
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1	EMBEDDED SYSTEM	Mr. Safwan and Mr. Roshan of Crinnolabs Techgenious Innovations	21 <sup>st</sup> February to 25th February 2024	III Year	52
2	EMBEDDED SYSTEM	Mr.Kathiru santhikumar, Mr. Muhammed Mubeen KP and Mr. Robin KK.	17 -22 September 2023.	IV Year	52
3	Fundamentals of Python Programming	Alisons Informatics	20 <sup>st</sup> February to 24th February 2024	II year	50

### **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	Solar Observatory Museum Kodaikanal	2-5-24	Third Year

### **3.3 Achievements by the students**

Abhinav M of S4 ECE received best Ambassador award in KTU tech fest held at Ahalia School of Engineering , Palakkad

### **3.4 Achievements by the faculty members**

Mr Vinod J Thomas completed the NPTEL course in signals and systems as National level topper with 92% marks

Ms Anusha Chacko Completed the NPTEL course in Programming language

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Ms.Bindu Sebastian, Associate Professor ECE along with our Alumni's Heera Pradeep,Jeena George,Angitha N and Anjali K P received Patent for the project " An accelerometer based Gesture Recognition System for controlling Robotic Arms in Diverse Applications

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

<b>Sl No</b>	<b>Details of the STTP</b>	<b>Name of the Faculty</b>
1	7 Day National Level Online Faculty Development Program on Outcome Based Education (OBE) organised by Nirmala College, Muvattupuzha in association with The Kerala State Higher Education Council	Dr. Roshini T V
2	Five day FDP on Education 5.0 organized by the Department of Information Technology in Association Academic Staff College Dr. M.G.R Educational and Research Institute.	Ms Bindu Sebastian
3	5 days ATAL FDP on Unleashing the Potential of System-on-Chip and its Architecture	Manoj K C, Binil Kumar K and Mr.Vinod J Thomas
4	5 days FDP on " Under water Robotics :Research Opportunities and Challenges"	Dr.Roshini T V and Ms.Shimna P K:
5	FDP on Navigating roles and responsibilities in higher education.	Ms.Jerrin Yomas
6	Ms.Bindu Sebastian: Attended 5 Days FDP on Python programming,,FDP on Navigating roles and responsibilities in higher education	Dr Anto Sahaya Dhas and Dr Jayesh George
7	Attended 5 days FDP on Emerging Significance of Artificial Intelligence in Healthcare and Education: Current Perspectives,	Mr.Binil Kumar K
8	Attended 5 days online FDP on "INTEGRATING INTELLIGENCE INTO HEALTHCARE : EMPOWERING PROFESSIONALS FOR THE FUTURE" organized by SRM Institute of Science and Technology, Vadapalani, Chennai.	Ms.Shimna P K and Anusha Chacko
9	Attended 5 days online FDP on "control of Robotic Systems: Research Trends and Challenges" organized by College of Engineering Perumon	Ms.Grace John M :

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### 3.4.2 Training Programs /Seminars/workshops attended by Faculty

Sl No	Details of the Training program	Name of the Faculty	Date
1	'Professional Development of Teachers for NEP and current opportunities in Education ' Organized by IQAC Cluster India H V Desai College Pune and A.N .R College Gudivala.	Dr. Roshini T V	Duration 22/5/23 to 31/05/23
2	Webinar on 'How to utilize the UN SDG goals courses in upschool platform'	Ms. Bindu Sebastian	

### 3.4.3 Papers Published by Faculty

Sl No	Tile of the paper	Name of the Faculty	Journal/Conference title
1	Extream learning machine algorithm based model for lung cancer classificatin from histopathological real-time images	M Grace John, S.Baskar.	DOI: <a href="https://doi.org/10.1111/coin.12576">https://doi.org/10.1111/coin.12576</a> .
2	Hybrid machine learning-based breast cancer segmentation framework using ultrasound images with optimal weighted features	Roshini T V and Sudharsana Vijayan	<a href="https://doi.org/10.1002/cbf.4054">10.1002/cbf.4054</a>
3	Analyzing mobile Payment using Block Chain	Jerrin Yomas	3rd International Conference on Mobile networks and Mobile Communication <a href="https://ieeexplore.ieee.org/">https://ieeexplore.ieee.org/</a>
4	Deep Learning-based Precision Diagnosis of Lung Diseases on the Internet of	Lekshmy S	<a href="https://doi.org/10.7546/CRABS.202">https://doi.org/10.7546/CRABS.202</a>

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	Medical Things (IoMT)		
5	Efficient and Robust Medical Image Watermarking Based on Optimal Subband Tree Structuring and Discrete Fractional Fourier Transform	Anusha Chacko	<a href="http://dx.doi.org/10.24423/cames.547">http://dx.doi.org/10.24423/cames.547</a>
6	A Review on Diagnosis of Lung Cancer and Lung Nodules in Histopathological Images using Deep Convolutional Neural Network	Shimna Pk	<a href="https://doi.org/10.1109/ICAIA57370.2023.10169738">https://doi.org/10.1109/ICAIA57370.2023.10169738</a>
7	Analyzing the performance of a bio-sensor integrated improved blended learning model for accurate pneumonia prediction	Lekshmy S	<a href="https://doi.org/10.1016/j.rine.2024.102063">https://doi.org/10.1016/j.rine.2024.102063</a>
8	Empowering Future Innovators:The Importance of STEM Education in Today's World	Dr. Roshini T V	<a href="#">Book Chapter</a>
9	presented a paper titled 'Aquatic plastic collecting and purity checking Robot ' in the National Conference on Novel Engineering Science and Technology (NACONEST -23) organized by the Department of Electronics and Communication Engineering College of Engineering Thalassery on 3rd and 4th of May 2023	Dr. Rohini T V , Sebastine George , Jacob James , Nevin Sajiand Joshua Noyal	
10	DeepNet model empowered cuckoo search algorithm for the effective identification of lung cancer nodules	Ms.Grace John	Frontiers in Medical Technology, 11 September 2023 ,Sec. Medtech Data Analytics , Volume 5 – 2023
11	An efficient seizure prediction system using convolutional neural network and scalogram of the EEG signal	Vinod J Thomas	IEEE conference,ICECA 2023 held at RVS technical campus,Coimbatore

### 3.4.4 Outside interaction of Faculties

Sl.No	Title	Name of the faculty
1	Invited for the assessment of the various projects in connection with Calicut Cluster Level 50th Jawaharlal Nehru National science Mathematics and Environment Exhibition (JNNSMEE - 2022-23) & 50th Rashtriya Bal Vaigyanik Pradarshani (RBVP) 2023 for children held at KV Keltron Nagar on 2/6/23	Ms. Grace John
2	Mr. Manoj K C has been selected as the interviewer by LBS College of Engineering, Kasaragod, for the post of Professor on a contract basis.	Mr. Manoj K C

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3	As a resource person to Sathyabama University, Chennai on the topic "A trip through generation of wireless communication" on 15 March 2024	Dr. Anto Sahaya Dhas
4	As resource person at Taliparamba Arts and Science College on the topic "AI: Boom or Bane" on 29/2/2024	Grace John M
5	As resource person in VJEC for Computer Science department on the topic "Research Methodology" on 05.03.2024	Grace John M

### 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 2023, Tantra "23 is organized on 04.12.2023.
"Turning Point" Workshop	On February 2nd, 2024, a workshop on soft skill development titled "Turning Point" was conducted for the students of S6 and S8 in the Electronics and Communication Engineering (ECE) department. The workshop aimed to equip students with essential soft skills crucial for their personal and professional growth
Womens Day Celibration	The students of S6 ECE along with the IEEE Photonics And Cass Societies of the Department celebrated Womens Day and honoured all the Women Staffs.

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# **VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI**

## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **ANNUAL REPORT 2023-24**

#### **ADMISSION AY 23-24 FIRST YEAR**

SANCTIONED INTAKE: 30

NO OF STUDENTS ADMITTED: 18

#### **RESULTS 2020-24 BATCH**

NO OF STDENTS REGISTERD: 59

NO OF STUDENTS GRADUATED: 31

#### **DEPARTMENTAL ACHIEVEMENTS:**

1. Outstanding contributions and tireless efforts of ME Department were instrumental for the achievement of Esteemed NAAC A Grade for Vimal Jyothi Engineering College.

2. The IEEE Robotics and Automation Society (RAS) organized a Distinguished Lecture Programme on "Autonomous Ground Vehicles and Intelligent Transportation Systems" on March 18, 2024, at Vimal Jyothi Engineering College (VJEC). Engineering. Dr. Cristina Olaverri-Monreal from Johannes Kepler University Linz, Austria, delivered an enlightening session exploring the latest trends and challenges in intelligent transportation systems

3. The Project titled "Design fabrication and analysis of rescue and safety surveillance unmanned ground vehicle" done by Nazi Arsh, Vipin I V, Vishu Vijayan & Yahya Mahmood under the supervision of Mr. Dilin Dinesh got selection for APJAKTU - Research section- Financial Assistance to Student Projects and a fund of Rs 32250/-was sanctioned .

4. Dr. Christopher Ezhil Singh Professor ME received a fund of Rs. 50000/- from VJEC Research Seed Money for the work of "Corrosion behaviour and characterization of Aluminium based composites

5. The Department of Mechanical Engineering organized an online alumni meeting titled "RETROSPECT-24" on 15th March 2024

6. Mexterious 2K23 the technical fest of the Mechanical engineering department, Vimal Jyothi Engg. College was held as a part of Tantra 23 on 4<sup>th</sup> December 2023

7. ME Department acquired a funding of Rs. 50000/- from VJEC for the cond  
Mexterious 2K23

8. “Gears 2K23 Project Expo” Display of student B.Tech projects and models of VJEC students conducted on 15th April 2024

9. ME Department exhibited various innovative automobile projects of ME students under SAE at “Pragyan” exhibition at Sree Sankara Vidyapeetam Senior Secondary School Mattannur from December 7 to 9, 2023.

10. In a significant event aligned with the Hyundai ITI tie-up program, an impressive exhibition unfolded at ITI Marygiri, Taliparamba, showcasing innovative projects by Mechanical Engineering students from Vimal Jyothi Engineering College on January 25, 2024.

11. Patent Application filed on student project “Smart walking support stick for enhanced navigation and safety of visually impaired individuals” & got published in the official journal of the patent office. The publication date of the patent is 05/01/2024, and it has been filed under Application No. 202341086832 A.

12.33-Research Conference papers generated from Student Seminar are send to INTERNATIONAL CONFERENCE ON Emerging Trends in Engineering, Technology and Management (ICETM-2024) and papers are accepted and waiting for the presentation

## **INDUSTRIAL INTERACTIONS:**

### **A. 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 was signed on 3rd October, 2023, by and between Vimal Jyothi Engineering College, Chemperi, and i3D fabs, Perinthalmanna for a span of three years to offer training for VJEC students in additive manufacturing (3D Printing)

3. A Memorandum of Understanding is entered into as of 19<sup>th</sup> June 2024, 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 A Memorandum of Understanding was signed on 9th October, 2023, by and between Vimal Jyothi Engineering College, Chemperi, and Evolve Robotics, Calicut for a span of three years to offer training for VJEC students in Robotics and Automation.

### **B. INTERNSHIPS**

Details of ME students summer internships

1. Anumol Binoy, Jyothish Bijith, Govind Manoj, Joel Sunny (14 day)  
**Rail limited**, JLN Metro Station, 4th Floor, Kaloor),

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2. Sayooj Rajan, Abhijith K, Mirwaiz Omar A Nazeer, Subin M, Yadhukrishna (7 days - **Keltron Component Complex Ltd**, Keltron Nagar, Dharmasala, Kalliasseri, Kerala)
3. Ashwin Raj T (21 days- **Popular Maruthi**, Ezhilode, Kannur,)

### C. INDUSTRIAL VISITS

1. S4 & S6 ME conducted industrial visit to Goa at Mandovi Dry docks & Goa milk plant from 2nd to 4th may 2024

### WORKSHOP/SEMINARS/TECHNICAL TALK CONDUCTED:

SI No	Evet Name	Date	Resource Person/Industry
1	IEEE-Distinguished Lecture Programme on "Autonomous Ground Vehicles and Intelligent Transportation Systems	18 <sup>th</sup> March 2024	Dr. Cristina Olaverri-Monreal from Johannes Kepler University Linz, Austria,
2	Workshop on "Drone applications" in collaboration with IEEE RAS.	17 <sup>th</sup> and 18 <sup>th</sup> , August 2023	Mr. Akash Dinesh Enfono Technologies Pvt. Ltd., Kochi.
3	Workshop on "Intellectual Property Rights (IPR) & Patents and Design Filing	4 <sup>th</sup> April, 2024	Dr. Silpa PA Patent Agent & Faculty Adisankara Institute
4	Workshop On "Approach To Novel Research Techniques" on	3 <sup>rd</sup> April 2024	Dr. Anto Sahaya Dhas, Professor ECE VJEC.
5	Workshop on 'Entrepreneurship and Successful Start-ups	9 <sup>th</sup> April 2024	Dr. Sampath Kumar Dean Research Christ College of Engineering
6	The Graduate Aptitude Test in Engineering (GATE) exam awareness program	7 <sup>th</sup> Nov 2023	Once Academy

### ADD-ON COURSES & TRAININGS ORGANISED:

SI NO	Event Name	Date	Class	Resource Person/Industry/ Content
1	5-day add on course on 'Autodesk Fusion 360'	18th to 22th Sep 2023	S7 ME	BIMLABS global
2	5 Day add on course on "hands on training in additive manufacturing	03th to 07 <sup>th</sup> Oct 2023	S5 ME	i3D fabs, Perinthalmanna
3	5 Day Add-on Course on "Robotics and Automation	9 <sup>th</sup> to 13 <sup>th</sup> Oct 2023	S3 ME	Evolve Robotics Calicut
4	CNC Skill Development Training (30 Hours)	February 26 to March 18, 2024,	S8 ME	Mr. Shaji George & Mr. Biju K J

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**FDPs/STTPs ORGANISED:**

<b><u>Sl No</u></b>	<b><u>Event Name</u></b>	<b><u>Date</u></b>
1	Three day Faculty Development Program (FDP) on "Modelling and Design for Manufacturing using Fusion 360 in collaboration with BIMLABS, Cochin	8,9,10 Jan 2024
2	Two day FDP on "Industrial Robotics using Yaskawa GP8 Robotic Arm"	18 &19 Jan 2024

**PAPER PUBLICATIONS/PRESENTATIONS:**

<b><u>SL No</u></b>	<b><u>Authors</u></b>	<b><u>Title of Paper</u></b>	<b><u>Publication</u></b>
1	Dr. Sridharan P	Customer's Perception towards Services of the Selected Banking Sector in South Indian District	International Journal of Scientific Research in Engineering and Management (IJSREM). [ Volume 31, Issue 1] DOI : <a href="https://sajm-amdisa.org/index.php?option=com_content&amp;view=article&amp;id=132">https://sajm-amdisa.org/index.php?option=com_content&amp;view=article&amp;id=132</a>
2	Dr. Christopher Ezhil Sing	Data augmentation using a 1D-CNN model with MFCC/MFMC features for speech emotion recognition	Automatika Volume 65, Issue 4 DOI : <a href="https://www.tandfonline.com/doi/full/10.1080/00051144.2024.2371249">https://www.tandfonline.com/doi/full/10.1080/00051144.2024.2371249</a>

**MEETINGS ORGANISED**

<b><u>SL NO</u></b>	<b><u>Name of meeting</u></b>	<b><u>Date</u></b>
1	RETROSPECT-24 Department Alumni Meeting	15th March 2024
2	The Programme Assessment and Quality Improvement Committee (PAQIC)11 <sup>th</sup> meeting	17 <sup>th</sup> September 2023
3	PTA meeting of batches	S6 ME-15 <sup>th</sup> March 2024, S4 ME - 6 <sup>th</sup> March 2024, S2 ME-12 <sup>th</sup> March 2024

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## **FDPS ATTENDED**

<b><u>Sl No</u></b>	<b><u>FDP Name</u></b>	<b><u>Participants</u></b>	<b><u>Date</u></b>
1	Six-day online Faculty Development Program on 'Recent Advancements in Materials, Manufacturing, and Technology	Mr. Aji Augustine AP ME	Oct 30 to Nov 4 2024
2	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Advances in Subtractive and Additive Manufacturing Technologies	Mr. Appu Kurian AP ME	04/12/2023 to 09/12/2023
3	5-day faculty development program on 'Machine Learning using Python,' organized by the Department of Computer Science at Vimal Jyothi Engineering College.	Mr. Midhun Mukundan M K AP ME	January 19 <sup>th</sup> to 23rd 2024.
4	5-day faculty development program on 'Counselling and Academic Mentoring,'	Mr. Niyas K M, AP ME and Mr. Biju K J, Technician, ME	February 27 <sup>th</sup> , 2024, to March 2 <sup>nd</sup> , 2024
5	5 Day Drone Training Program at Garuda Aerospace Pvt Ltd, Chennai, Tamil Nadu	Dr. Christopher Ezhil Singh	15 <sup>th</sup> to 19 <sup>th</sup> July 2024
6	5 Day FDP on Applications of Artificial Intelligence techniques in mechanical engineering systems at Karunya Institute of Technology & Science	Dr. P Sridharan, Professor ME, Mr. Dilin Dinesh AP ME, Ryne PM & Mr Mejo M Francis AP ME	5 <sup>th</sup> to 9 <sup>th</sup> Feb 2024
7	5 Day FDP on 'Developments in Renewable Energy Systems and Technologies' conducted in association with the Indian Society of Technical Education (ISTE) - Kerala Section	Dr. P Sridharan Professor ME	8 <sup>th</sup> to 12 <sup>th</sup> January 2024.
8	3 Day FDP on Fusion 360	Cdr. Raju KK, HOD ME, Dr. Christpher, Mejo M Francis, Aji Augustine, Dilin Dinesh, Arunlal M P Ryne P M, Appu Kurian, Shaji.Geroge. Shaminmuth K K, Mithun Mukundan, & Mr. Niyas K M	8 <sup>th</sup> to 10 <sup>th</sup> Jan 2024

## **FACULTY ACHIEVEMENTS:**

1. Mr. Biju K J, Technician in the Department of Mechanical Engineering at VJEC, has successfully completed a post-graduation program in Master of Arts (Public Signature Not Verified with a First-grade distinction from Indira Gandhi National Open University.

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2. The Project titled “Design fabrication and analysis of rescue and safety surveillance unmanned ground vehicle” under the supervision of Mr. Dilin Dinesh got selection for APJAKTU - Research section- Financial Assistance to Student Projects and a fund of Rs 32250/-was sanctioned .
3. The Project titled “Design and fabrication of automated hydrophonic”farming system” under the supervision of Mr. Arunlal M P got selection for VJEC IRPS funding of Rs 10000/-
4. The Project titled “Design and fabrication of a hand gesture-controlled wheel chair under the supervision of Dr. Sridharan got selection for VJEC IRPS funding of Rs 10000/-
5. Dr. Christopher Ezhil Singh reviewed a paper in 'Archives of Civil and Mechanical Engineering' titled: 'Effect of SPS Consolidation and Heat Treatment on Microstructure and Mechanical Behavior of FeCrAl-Y2O3 ODS Alloys with Different Ti and V Contents.' Manuscript Number: ACAM-D-23- 01547
6. Dr. Christopher Ezhil Sigh Reviewed a paper in 'Archives of Civil and Mechanical Engineering' titled: “Effect of zonal laser texturing on frictional performance in reciprocating motion”. Manuscript Number: ACAM-D-23- 021925.
7. 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
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. Christopher Ezhil Singh, Associate Professor, ME, reviewed a paper in 'Archives of Civil and Mechanical Engineering' titled: Surface modification of bulk metallic glass Zr48Cu36Al8Ag8 in glow discharge plasma nitriding'. Manuscript Number: ACAM-D-24-00253
10. 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.
11. Mr Mithun Mukundan (AP ME), Mr Appu Kurian (AP ME) & MR Dilin Dinesh (AP ME) were recognized for their outstanding performance in producing high results in tough courses during the academic year 2022-2023.
12. Mr. Niyas K M got PhD Admission in NIT Calicut

### **STUDENTS ACHIEVEMENTS:**

1. Mr. Nirmal Dev acquired B. Tech Honors in Mechanical Engineering
2. Mr Alan Jose acquired B. Tech Minor in Composter Science
3. The Project titled “Design fabrication and analysis of rescue and safety surveillance unmanned ground vehicle” done by Nazi Arsh, Vipin I V, Vishu Vijayan & Yahya Mahmood

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under the supervision of Mr. Dilin Dinesh got selection for APJAKTU - Research section- Financial Assistance to Student Projects and a fund of Rs 32250/-was sanctioned .

4. The Project titled “Design and fabrication of automated hydroponic”farming system” done by Alen Jose, Sharon Scaria, Nimral Thoms & Rijin S Nambiar under the supervision of Mr. Arunlal M P got selection for IRPS funding of Rs 10000/-

5. The Project titled “Design and fabrication of a hand gesture-controlled wheel chair” done by Vyshanv R, Vaishanv P V, Tinu Thomas & Srinand S under the supervision of Dr. Sridharan got selection for IRPS funding of Rs 10000/-

6. Mr. Thomas V S, an S3 Mechanical Engineering student, secured the runner-up position in the KTU F-Zone level basketball competition.

### **PROFESSIONAL BODY ACTIVITIES:**

1. The IEEE Robotics and Automation Society (RAS) organized a Distinguished Lecture Programme on "Autonomous Ground Vehicles and Intelligent Transportation Systems" on March 18, 2024, at Vimal Jyothi Engineering College (VJEC). Engineering. Dr. Cristina Olaverri-Monreal from Johannes Kepler University Linz, Austria, delivered an enlightening session exploring the latest trends and challenges in intelligent transportation systems. The event was conducted with travel grant of 3000 Dollar

2. IEEE RAS organized a Workshop on “Drone Applications” on August 17th and 18th, 2023 in collaboration with IEEE RAS. The Resource Person for the event was Mr. Akash Dinesh from Enfono Technologies

### **ME PLACEMENTS:**

Sl No	Name	Register No	AY	Type	Company Name
1	Nirmal Thomas	VML20ME040	2023-24	On Campus	GLS FILMS
2	Adithya Madhu	VML20ME011	2023-24	On Campus	GLS FILMS
3	Abhiram Raju Radhakrishnan	VML20ME005	2023-24	On Campus	ARMSTECH ENGINEERS
4	Vyshnav R	VML20ME059	2023-24	On Campus	Accurate Edge
5	Albin C S	VML20ME014	2023-24	On Campus	Accurate Edge
6	Jeevanraj	LVML20ME062	2023-24	On Campus	Accurate Edge
7	Anand Thomas	VML20ME017	2023-24	On Campus	Accurate Edge
8	Salvin Josy	VML20ME044	2023-24	On Campus	Accurate Edge

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