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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

INSTITUTE VISION

"Moulding Professionals par Excellence with Integrity Fairness and Human Values".

INSTITUTE MISSION

1. We commit to develop the institution as a Center of Excellence of International Standards
2. We guide our students in the attainment of intellectual and professional competence for successfully coping with the rapid advancements in technologies and the ever changing world of business, industry and services
3. We help each and every student in their personal growth into mature and responsible individuals
4. We strive to cultivate a sense of social and civic responsibility in our students, thus empowering them to serve humanity.
5. We promise to ensure a free environment where quest for the truth is encouraged

VISION OF THE DEPARTMENT

"Mould globally competent Electrical and Electronics Engineers."

MISSION OF THE DEPARTMENT

1. To provide the best academic ambiance.
2. To develop technical and soft skills to cope up with the emerging global scenario.
3. To enhance knowledge by industry and alumni interaction.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering –accredited by National Board of Accreditation, is established in the year 2004 with well equipped state of art laboratories. The Department has a fine blend of renowned as well as young and dynamic personalities as faculty members, who have been motivating the students for getting the best out of them. The department offers under graduate program in Electrical and Electronics Engineering with an intake of 60 students. The department focuses on overall development of the students by encouraging them to take part in student's association activities, internships and industrial training. The department had secured Five University Ranks since its inception, and the 1st Rank of 2013-'17 batch adds a jewel to its crown. The academic strength of the faculty is reflected by the alumni, many of whom are in top echelons of industry and academia both in India and abroad. The students of the department play leading roles in all the activities of the college



VISWAJYOTHI
COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

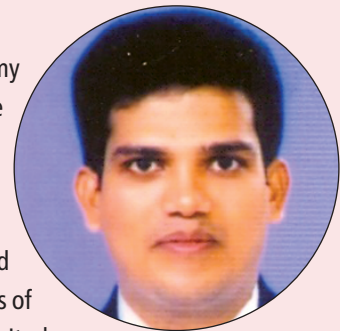
PRINCIPAL'S MESSAGE



Education plays a key role in enabling a person to face real life situation with adequate knowledge. Viswajyothi campus is always known for its perfection that it has got in all the activities and it has become a technological and intellectual hub of exceptionally talented students. The very purpose of this institute is to bring out the potentiality of each student and provide them proper guidance so that their potentials can be highly made use of building them as engineers, being capable of meeting any kind of challenge. Electrical and Electronics Engineering Department with its most competent faculty members always focuses on enrichment of EEE community and molding the young engineers to be victorious in various fields of engineering. I wish the newsletter "VIDYUTH" all success for showcasing the initiatives and achievements by students and faculty members.

Dr. K.K.Rajan

HOD'S MESSAGE



I would like to express my sincere appreciation for all the tremendous efforts put forth by the newsletter team. Newsletter is a forum to expose the events, happenings, and achievements in the department and provides a platform to exhibit the talents of the budding engineers and the faculty. It also helps in building up teamwork among the students, which is very much important in this competitive world. I hope the students can make use of this opportunity to develop their inherent talents and actively contribute the same to the newsletter. Signing of with a quotation "Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away."

Dr. Sony Kurian

LIST OF FACULTY PUBLICATIONS

- Dr. B. Aruna published a paper "Design development and testing of mutual inductance type level sensor for molten lead-lithium alloy" in International Journal "Fusion Engineering and Design".
- Dr. B. Aruna presented a paper on " Smart Solar Grass Cutter" in National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.
- Dr. Sony Kurian was the resource Person in KTU Sponsored 5 days (Online) FDP on "Advancements in Systems for Electric and Hybrid Vehicles" organized by the Department of Electrical & Electronics Engineering, VJCET from 19.04.2021 to 23.04.2021
- Mr. Aneesh Kurian delivered a technical talk on "Home energy reading orientation" at Model Engineering College, Thrikkakkara.
- Mr. Jomu M George was a resource Person in KTU Sponsored 5 days (Online) FDP on "Advancements in Systems for Electric and Hybrid Vehicles" organized by the Department of Electrical & Electronics Engineering, VJCET from 19.04.2021 to 23.04.2021.
- Ms. Cini K. presented a paper "Hybrid Solar-Powered UAV for the Forest Fire Detection and Monitoring" in International Conference on Circuits, Control and Energy - 2021 (ICCCE- '21) Christ College of Engineering, Irinjalakuda , 13th to 15th July 2021.
- Ms. Cini K. presented a paper on " Control and design of Solar Powered UAV" on National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.
- Mr. Aneesh Kurian presented a paper on " Solar Powered Water Filtering System " on National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021
- Ms. Smitha Jacob presented a Paper "Cost Effective AC Conductive

Charging system for Electric Vehicle" National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.

- Mr. Babu T Chacko presented a Paper "3D Sensor Based moving human tracking robot with obstacle avoidance " National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.
- Ms. Jis Jose presented a Paper "Smart crop protection using arduino" National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.
- Ms. Neena Skaria presented a Paper "BLDC driven water pump using solar PV array" on National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.
- Ms. Jane Maria S presented paper 'Arduino based low-cost active dual axis solar tracker' National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.

TECHNICAL VISITS / SEMINARS / SHORT TERM TRAINING PROGRAMMES

- Mr. Dileep Kumar P and Ms. Jane Maria S organized FDP on "Advancements in Systems for Electric and Hybrid Vehicles" organized by the Department of Electrical & Electronics Engineering, VJCET from 19th - 23rd April 2021
- All the faculty members attended KTU Sponsored 5 days (Online) FDP on "Advancements in Systems for Electric and Hybrid Vehicles" organized by the Department of Electrical & Electronics Engineering, VJCET from 19.04.2021 to 23.04.2021.

STUDENT ACHIEVEMENTS IN EVENTS HELD IN/OUTSIDE THE COLLEGE.

- Abhijith Babu of S2 EEE has done an internship on Power Distribution and Safety Aspects" conducted by Alfa Electric Power Service.
- Noyal Sebastian of S6 EEE has done "PYTHON BASICS" course authorized by University of Michigan and offered through Coursera.
- Noyal Sebastian of S6 EEE has done MACHINE LEARNING PIPELINES WITH AZURE ML STUDIO, course authorized by Coursera project network and offered through Coursera
- Felix Steephan of S4 EE has done an internship program on Power Distribution and Safety Aspects conducted by Alfa Electric Power Service.
- Jishnu Anil of S4 EE has done an internship program on Power Distribution and Safety Aspects conducted by Alfa Electric Power Service.
- Abin Benny of S4 EE has done an internship program on Power Distribution and Safety Aspects conducted by Alfa Electric Power Service.
- Mr. Binto sunny, Mr. Joseph Sebastian, Mr. M V Krishnan Unni and Mr. Shilton William of S8 EEE presented a Paper 'Sea Water Desalination Using Renewable Energy' in National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.
- Mr. Nohan Francis, Mr. Alant Boby, Mr. Ashmin Shinob and Mr. Sreejith P S of S8 EEE presented a Paper '3D Sensor Based moving human tracking robot with obstacle avoidance' in National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021
- Ms Akhilamol Joby, Mr. Augustine Mathew, Mr. Ansil Subair and Ashwin Saji John of S8 EEE presented a Paper 'IoT Based Smart Borewell Rescue System' in National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021
- Mr. Adithyarak P, Mr. Aldo Joy, Mr. Arjun Suresh and Mr. Basil Benny of S8 EEE presented a Paper 'India Arduino based Low Cost Active Dual Axis Solar Tracker' in National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021
- Mr. Aravind A, Mr. Arun Shaji, Mr. Fayas T A and Mr. Sachin Sunny of S8 EEE presented a Paper 'Electric Go Kart - Design and Implementation and Power Management Strategy' in National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021.
- Ms. Nitha James, Ms. Shabna Basheer and, Ms. Minnu Prakash of S8 EEE presented a Paper 'Automatic Railway Security System' in National Conference on Power, Control and Communication Technologies Organized by Department of Electrical and Electronics Engineering, VJCET from July 30-31 2021

TRAINING PROGRAMMES ORGANIZED OUTSIDE AND ATTENDED BY THE DEPARTMENT FACULTY

Ms. Cini K attended

KTU Sponsored 5 days (Online) FDP on Recent Advances in Power Electronics and Power Systems from 14th June 2021 to 18th June 2021 Organized by department of Electrical and Electronics Engineering Muthoot Institute of Science and Technology

KTU Sponsored 5 days (Online) FDP on "Biomedical Instrumentation-Research Challenges" Organized by The Department of EEE & ECE of Amal Jyothi College of Engineering, Kanjirappally from 22-02-21 to 26-02-21.

AICTE - ATAL FDP on "Electric Vehicles" organized by the Department of Electrical & Electronics Engineering, College of Engineering, Cherthala, from 18.01.2021 to 22.01.2021.

Mr. Aneesh Kurian attended

KTU Sponsored 5 days (Online) FDP on Recent Advances in Power Electronics and Power Systems from 14th June 2021 to 18th June 2021 Organized by department of Electrical and Electronics Engineering Muthoot Institute of Science and Technology

Preventing Equipment Failures: Best Operation & Maintenance Practices of Electrical Systems by KERALA STATE PRODUCTIVITY COUNCIL.19.05.2021

Ms. Smitha Jacob attended

KTU Sponsored 5 days (Online) FDP on "Biomedical Instrumentation-Research Challenges" Organized by The Department of EEE & ECE of Amal Jyothi College of Engineering, Kanjirappally from 22-02-21 to 26-02-21.

Ms. Mereya Baby attended

AICTE - ATAL FDP on "Electric Vehicles" organized by the Department of Electrical & Electronics Engineering, College of Engineering, Cherthala, from 18.01.2021 to 22.01.2021.

KTU Sponsored 5 days FDP on "Power Electronics for Electric Vehicles-Control and Challenges" from 6th July 2021 to 10th July 2021 Organized by Department of Electrical and Electronics Engineering Adi Shankara Institute of Engineering and Technology.

Mr. Dileep Kumar P attended

KTU Sponsored (online) FDP on 'RECENT TRENDS IN ELECTRIC VEHICLES AND SYSTEM DESIGN' organized by the Department of Electrical & Electronics Engineering, Sahrdaya College of Engineering and Technology, Kodakara from 07th – 09th June 2021.

KTU Sponsored (online) FDP on "Smart grid power technologies-Trends, Opportunities and Challenges" organized by the Department of Electrical & Electronics Engineering, Mar Basalios college of Engineering and technology, TVM from 3.5.2021 to 8.5 .2021

Mr. Sharone Varghese attended

KTU Sponsored 5 days (Online) FDP on Power Converters - An Embedded System Approach from 22ns to 28th July, 2021 organized by the dept. of Electrical and Electronics Engineering, Federal Institute of Science and Technology (FISAT), Angamaly.

KTU Sponsored 5 days (Online) FDP on Sustainable Engineering Practices in Agriculture and Autimotice Industry (SEPAAI) from 17th to 21st May, 2021 organised by the Dept. of Electronics and Communication Engineering, Mar Athanasius College of Engineering, Kothamangalam.

Ms. Smitha Jacob ,Ms. Neena Skaria , Mr. Dileep Kumar P ,Ms. Seena Paul ,Ms. Breeza Paulose, Ms. Jis Jose, Ms. Jane Maria S, Mr. Babu T Chacko, Mr. Sharone Varghese attended

KTU Sponsored 5 days (Online) FDP on Recent Advances in Power Electronics and Power Systems from 14th June 2021 to 18th June 2021 Organized by department of Electrical and Electronics Engineering Muthoot Institute of Science and Technology

Ms. Jane Maria S attended

KTU Sponsored (online) FDP on 'RECENT TRENDS IN ELECTRIC VEHICLES AND SYSTEM DESIGN' organized by the Department of Electrical & Electronics Engineering, Sahridaya College of Engineering and Technology, Kodakara from 07th – 09th June 2021.

Mr. Jomu M George attended

KTU Sponsored 5 days (Online) FDP on "Sustainable Engineering Practices in Agriculture and Automotive Industry (SEPAAI)" from 17th to 21st May, 2021 organized by the Dept. of Electronics and Communication Engineering, Mar Athanasius College of Engineering, Kothamangalam

ANY OTHER DEPARTMENT EVENTS / INFORMATION.

World Nature Conservation Day

The history and origin of world Nature conservation day is unknown but the main aim of celebrating it on 28th July is to come together and support nature. To increase awareness about the best practices to conserve our natural resources and encourage sustainability to the students and staff members, the Department organized an online seminar on the topic "something has ahead gone wrong somewhere: Amidst a line of Floods, a water Crisis ahead for Us?" by Professor V K Damodaran, Director Team Sustain and Chairman, CED, FACES, NGGFn who conveyed the importance to conserve our mother nature.

Alumni interaction for +2 Students

The department conducted a live webinar on 'Future of Technology and Innovation: Scope & Prospects of Electrical Engineering' for the Plus Two students. Eminent alumni associated with various walks of industry, technology and management shared their experiences. They expressed their thoughts on the future opportunities for graduates in electrical engineering.

KTU FDP

The Department Conducted KTU Sponsored 5 days FDP on "Advancements in Systems for Electric and Hybrid Vehicles" organized by the Department of Electrical & Electronics Engineering, VJCET from 19.04.2021 to 23.04.2021. The Program was Inaugurated by Shri. A. R Rajendran, Chief General Manager, RS & E, Kochi Metro Rail Ltd.

QUIZ Program

Department in association with Vidhyuth conducted a quiz program on 26th March 2021 for the first-year students.

Vidhyuth

EEE Association Inauguration was conducted on 19th March 2021 by Shri. Prasad Mathew, Managing Director, TRACO CABLE Company Ltd. A Technical Talk on "Electrical safety – Hazards and Precautions" was also given by the chief guest as a part of association activities.

National Technology Day

As a part of celebrating national technology day the department conducted an expert Talk on "Hyper convergence of AI, Engineering and Cloud" by Mr. Alexander George K, Consultant Affine.

National Conference

The Department conducted a 2-day national conference on "Recent Trends in Power, Control and Communication Technologies" on 30th to 31st July 2021. The conference was Inaugurated by Shri. A.M Narayanan, IES, Energy Professional, and Former Director, state Electricity Regulatory Commission. An expert talk on "Power Sector Transformation-opportunities" were also conducted.

Webinars

Dc-Dc Converters-Control Methods

The webinar was conducted on 4th June 2021. |The Keynote speaker was Dr. M. Nandakumar Professor and HOD, SCMS School of Engineering and Technology.

How to Equip Yourself for Core Industry.

Department in association with VJCET Alumni Association conducted an online seminar for prefinal year students. Mr. Arun Kurian (EEE 2006-10 batch) Deputy Manager, Design Engineering, Ayana Renewable Power Pvt. Ltd was the chief guest.

Best Project Award

The best project award is sponsored by alumni. This year the award winners are Riyamol Sarah Jayan, Philip Thomas, Kevin Mathew George, and Paul Stanly for the project 'Hybrid Solar Powered UAV for Forest Fire Detection and Monitoring.'

UNIVERSITY EXAM RESULT

Batch	Class	No. of Students Appeared	Pass Percentage
2017-21	S8	62	88.7
2018-22	S5	28	60.71
2019-23	S2	28	78.57

CURRENT PLACEMENT STATISTICS OF 2017-2021 B.TECH BATCH

The students of the department are placed in various companies. As on 20th August 2021 Twenty-Five students of final year have been placed.

Sl.No	Company	No.of Students Placed
1	TCS	4
2	Infosys	2
3	VVDN	1
4	Quest Global	4
5	Sutherland Global - Non-Voice	5
6	FACE	2
7	Nest	1
8	Wileys	1
9	UST	3
10	Power India Electrical	1
11	Digital Core Technologies	1

CLASS TOPPERS

1.	Ansil Subair	CGPA 9.31
2.	Riyamol Sara Jayan	CGPA 9.11
3.	Nimmi Sabu	CGPA 9.01
4.	Annu S Gigi	CGPA 8.92
5.	Nohan Francis	CGPA 8.92
6.	Jose Lowrance	CGPA 8.8
7.	Anjali Maria Jose	CGPA 8.79
8.	Shabna Basheer	CGPA 8.78
9.	Nitha James	CGPA 8.73
10.	Minnu Prakash	CGPA 8.61
11.	Rion Roy	CGPA 8.58
12.	Kevin Mathew George	CGPA 8.52

Faculty Editor : Ms. Mereya Baby, Assistant Professor