



VIVEKANANDHA

COLLEGE OF ENGINEERING FOR WOMEN

(An Autonomous Institution, Approved by AICTE - New Delhi, Affiliated to Anna University and Accredited by NAAC with A++ Grade and NBA (CSE,EEE,ECE,IT and Bio tech.)
Elayampalayam - 637 205, Tiruchengode, Namakkal Dt.



Prof. Dr. M. KARUNANITHI
Chairman & Secretary

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Academic Year
2022 - 2023

VISION

To impart value based education in Engineering and Technology to empower young women to meet the societal exigency with a global outlook.

MISSION

- ☆ To provide holistic education through innovative teaching-learning practices
- ☆ To instill self confidence among rural students by supplementing with co-curricular and extra-curricular activities
- ☆ To inculcate the spirit of innovation through training, research and development
- ☆ To provide industrial exposure to meet the global challenges
- ☆ To create an environment for continual progress through life-long learning



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ABOUT THE INSTITUTION

Vivekanandha College of Engineering for Women (VCEW) is autonomous; self-financing engineering college approved by AICTE and affiliated to Anna University. VCEW was founded by a Philanthropist **Prof.Dr.M.Karunanithi**, in the year 2001 with the vision of providing technical education for rural women. It is accredited by NBA Tier I (BT, CSE, EEE, ECE & IT), NAAC with A++ Grade, and Tata Consultancy Services (TCS). The Institution is marching towards excellence under the able guidance of **Prof.S.Kuppuswamy**, a well-known academician in the field of technical education for the past four decades. He is a former Pro-Vice-Chancellor of Pondicherry University and an expert member in various academic bodies like UNIDO, UNESCO, MHRD, UGC, AICTE, NBA & NAAC. The College offers seven UG (CSE, EEE, ECE, BME, CST, IT & BT), four PG (CSE, PSE, VLSI & IT), and four Research Programmes in the departments of CSE, EEE, ECE & Chemistry. The Institution is equipped with the state of the art laboratories and e-learning centers like Digital Class Rooms, Digital Library, and AV halls for effective knowledge transformation. VCEW is the recipient of the National Award for the “**Best Women Engineering College in India**” awarded by the Indian Society for Technical Education (ISTE), New Delhi during the year 2018 and “Engineering Education Excellence Award” by The Institution of Engineers (India) during the year 2022.

VISION

Electrical and Electronics Engineering Department is to be a center of excellence in technical education and research by producing world-class graduates to meet future challenges of the country.

MISSION

- ✧ To impart quality education to our students and provide a comprehensive understanding of Electrical & Electronics Engineering and produce a new generation of knowledgeable, skilled, innovative engineers.
- ✧ To stabilize the students to understand the responsibility as an engineer who prove to be good citizens having concern for society, environment and ethical issues.
- ✧ To evolve the student community to adapt appropriate sustainable technologies through remarkable contribution for rural needs.

ABOUT THE DEPARTMENT

- ✧ Started in the year 2002 with an intake of 60 in UG programme
- ✧ Accredited by NBA for 3 years in 2009
- ✧ Started PG programme in Power Systems Engineering in 2010 with an intake of 18
- ✧ The department was accredited by Tata Consultancy Services by 2010
- ✧ UG programme intake increased to 120 in 2011
- ✧ Accredited 2nd time by NBA for 2 years in 2012
- ✧ Received Autonomous status in 2013
- ✧ Anna University Research Centre recognition during 2014
- ✧ NAAC accreditation in 2017
- ✧ Both UG & PG Programmes have permanent affiliation from Anna University
- ✧ Accredited 3rd time by NBA in Tier I for three years in 2019
- ✧ Dedicated team of faculty members with different specializations
- ✧ Conducive learning atmosphere
- ✧ Accredited 4th time by NBA in Tier I for three years in 2022
- ✧ State of art laboratories with latest equipments and simulation softwares like MATLAB, PSCAD, ETAP.

Education is not the learning of facts but the training of the mind to think - Albert Einstein

EDITOR IN CHIEF

Dr. P. KANNAN, M.E., Ph.D.,
PROFESSOR & HEAD.

ASSOCIATE EDITOR

Mr. B. GOUTHAM, M.E.,
ASSISTANT PROFESSOR.

STUDENT COORDINATOR

Ms. N. PRIYADHARSHINI

ASSOCIATION ACTIVITIES

Department Association (ANDERS) inaugurated on 27.09.2022. Dr. G. Pandian, Rtd. Senior Manager, Indian Oil Corporation inaugurated the Association and delivered a guest lecture on “Energy Efficiency for Electrical Equipments in Industries”.



Inaugural Address of ANDERS'22



Releasing EEE Newsletter - Pulse

Organized a guest lecture on “Innovations in Electrical Design and Job Opportunities for Electrical Engineers”, delivered by Mr. R. Sakthimani, Senior Electrical Engineer, WSP consultant India Pvt Ltd., Bangalore on 30.09.2022.



Guest Lecture on “Innovations in Electrical Design And Job Opportunities for Electrical Engineers”

Organized a seminar on “Activity Based Learning”, by Dr. U.S. Ragupathy, Professor, Department of E&I, Kongu Engineering on 12.10.2022.



Seminar on “Activity Based Learning”

Organized a guest lecture on “Electromagnetic Fields”, by Mrs.V. Femina, Assistant Professor, Dept of ECE, PSNA College of Engineering and Technology, Dindigul on 22.10.2022.



Guest Lecture on “Electromagnetic Fields”

A Symposium was organized on 16.11.2022. Ms. Aarthi Rajagopal, Associate Consultant Renault Nissan Technology and Business Centre inaugurated the program and delivered a key note address.



Chief Guest Address

AICTE Sponsored Two Weeks ATAL FDP on “Electric Vehicles” was organized from 12.12.2022 to 23.12.2022. This Program was conducted in hybrid mode. Rs. 3 Lakhs has been sanctioned by AICTE to conduct this programme. Faculty members from various Engineering Colleges benefited by this program. Resource persons are invited from all over India.



AICTE Sponsored FDP on “Electric Vehicles”

FACULTY PUBLICATIONS

Madhumathi Periasamy and Thenmalar Kaliannan, “A Hybrid IMFO -Fuzzy Algorithm for Performance Enhancement of Microgrid Under Uncertainty Via DGs Integration and Reconfiguration” in Journal of Intelligent & Fuzzy Systems, PP:8397-8415,Vol. 43, 2022.

Sankaramoorthy.K, Kannan P, Barkavi G.E, Arun Kumar Singh, Someshwar Siddi and Sangameshwaran S, “Trends and Challenges of Management Education in India” International Journal of Special Education, Vol.37, No.3, PP: 13382 - 13393, 2022

Madhumathi Periasamy, Thenmalar Kaliannan, Shobana Selvaraj, Veerasundaram Manickam, Sheela Androse Joseph, Johny Renoald Albert “Various PSO methods investigation in renewable and non renewable sources” in International Journal of Power Electronics and Drive Systems Vol. 13, No. 4, PP: 2498-2505, 2022.

Madhumathi Periasamy, Thenmalar Kaliannan, Shobana Selvaraj, Kayalvizhi Saraswathi Balasubramaniam, “Optimization of Lipso to monitor Power quality Problem in hybrid System” PERIODICO di MINERALOGIA, Vol. 91, No. 5, PP: 762 - 771, 2022.

PAPERS PRESENTED IN CONFERENCE

Dr. P. Kannan and Mr. A. Pradeep, presented a paper titled “Performance Analysis of Switched Reluctance Motor Drive System Operating with front - end Converter”, in the 3rd International Conference on Engineering and Advancements in Technology organized by Malla Reddy Institute of Engineering and Technology during 08.06.2022 and 09.06.2022

Dr.P.Kannan, and Mr.A.Pradeep, presented a paper entitled “An Optimization of Power Quality Integrated Optimal Facts Allocation With Power System Stability Constraint” in National Conference on Innovative Trends in Communication and Technology(NCITCT-22) organized by the Department of Electronics and Communication Engineering, Paavai Engineering College on 21.09.2022.

Ms.A.Preethi, Dr.K.Thenmalar, Dr.D.Santhoshkumar, presented a paper entitled “An Optimization of Power Quality Improvement Using DVR and D-STATCOM” in Shipboard Network in National Conference on Innovative Trends in Communication and Technology(NCITCT-22) organized by Electronics and Communication Engineering at Paavai Engineering College, Paavai Engineering College on 21.09.2022.

FACULTY CERTIFICATIONS

NPTEL JUL-DEC 2022 CERTIFICATIONS

Educational Leadership



Accrediation and Outcome Based Learning



Teaching and Learning in General Programs : TALG



Stress Management



STUDENT CERTIFICATIONS

NPTEL JUL-DEC 2022 CERTIFICATIONS

Programming, Data structures and Algorithms using Python



Introduction to Internet of Things



Cloud Computing



Education is the most powerful weapon to change the world - Nelson Mandela

PARTICIPATION IN SKILL ENHANCEMENT PROGRAMMES (FACULTY)

Mr. S. Mutharasu participated in the AICTE Training And Learning (ATAL) Academy Faculty Development Programme on "Electronic Design System", organized by College of Engineering Pune during 02.06.2022 to 08.06.2022.

Dr. P. Kannan, attended Indian Engineering Congress organized by the Institute of Engineers (India), held at Hotel Le Royal Meridian, Chennai from 14.12.2022 to 16.12.2022.

Dr.J.Muruganantham,Mr.A.Pradeep and Mr.T.Sasikumar participated in the seminar on "Hybrid Electric Vehicle Technology-Basics" organized by Toyato Kirloskar Motor Pvt.Ltd(Online) on 04.12.2022.

Dr.J.Muruganantham and Mr. A. Pradeep, attended an Industry Guest-Lecture on "Solar Projects, Future Technology, Growth & Opportunities" Organized by Department of Electrical & Electronics Engineering at Madanapalle (Online) Institute of Technology and Science on 17-09-2022.

Mr.S,Mutharasu,Dr.J.Muruganantham, Mr.A.Pradeep, Mr.T.Sasikumar and Mr.R.Manikandan, participated in the Five Day's Virtual Faculty Development Programme on "Electrical Vehicle Technologies-A Future Transportation Tool" organised by Department of Electrical and Electronics Engineering, Bangalore Institute of Technology from 28.11.2022 to 02.12.2022.

Mr.A.Pradeep, attended webinar on "Data Science & its Applications" organized by Bharati Vidyapeeth's Institute of Computer Applications and Management on 20.08.2022.

Dr.J.Muruganantham, Mr.D.Santhoshkumar, and Mr.P.Magudeshwaran, participated in two days Faculty Development Programme on "Design Thinking- A Premiere" organized by VCEW AICTE IDEA LAB during 23.09.2022 to 24.09.2022.

Mr.R.Manikandan, participated in Faculty Development Programme "Universal Human Values" organized by the Internal Quality Assurance cell on 05.11.2022.

Mr.A.Pradeep, Dr.J.Muruganantham, Mr.P.Magudeshwaran,Mr.J.Shanmugasundaram, Ms.A.Preethi, participated & completed successfully AICTE Training And Learning (ATAL) Academy

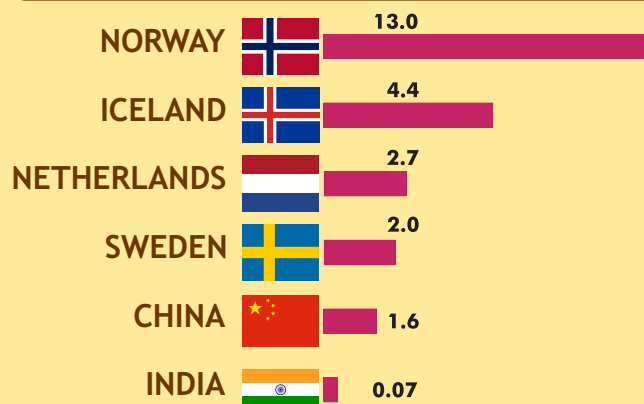
Blended/Hybrid Faculty Development Programme on "Electric Vehicles" from 12.12.2022 to 23.12.2022.

Mr.T.Sasikumar,Mr.D.Santhoshkumar, Mr.B.Goutham Dr.K.Venkataramanan,Dr.K.Thenmalar,Ms.A.Preethi, Mr.A.Pradeep and Mr. S. Mutharasu, participated in Five days Online International Faculty Development Program on "The Role of Artificial Intelligence in Renewable Energy Applications" organized by Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology during 01.08.2022 to 05.08.2022.

Mr. A. Pradeep, Ms.S.B.Kayalvizhi and Dr.J.Muruganantham Participated in the AICTE Recognized Faculty Development Programme on "MATLAB and Simulink for Beginners" organized by Electrical Engineering Department at J.K.K.N College of Engineering & Technology from 19.09.2022 to 23.09.2022.

Dr.P.Kannan, participated in two day Faculty Development Program on "Emerging Smart Technologies" organized by L&T campus, Chennai, from 28.09.2022 to 29.09.2022.

INDIA'S STAND IN GLOBAL ELECTRIC VEHICLE USAGE SCENARIO
Electric Cars as a proportion of the number of cars in a country (in %)



Dr.J.Muruganantham, participated in the International Online 5-days Faculty Development Program on "Real-Time Applications of Opal-RT for Smart Grids" organized by Centre for Smart Grid Technologies & School of Electrical Engineering at Vellore Institute of Technology during 17.10.2022 to 21.10.2022.

Mr. D.Santhoshkumar, Dr. K.Thenmalar and Ms.A.Preethi participated in the One week International Online Faculty Development Program on "Trends & Challenges in the Development of Electric Vehicles & Hybrid Electric Vehicles (Series-I)" organized by Department of

Some of the brightest minds in the country can be found on the last benches of the classroom - Dr. APJ Abdul Kalam

Mechanical Engineering, Lendi Institute of Engineering & Technology during 26.09.2022 to 30.09.2022.

Mr. D.Santhoshkumar, Mr.R.Manikandan,Dr.K.Thenmalar and Ms.A.Preethi, participated in the One week International Online Faculty Development Program on “Trends & Challenges in the Development of Electric Vehicles & Hybrid Electric Vehicles (Series-II)” organized by Department of Mechanical Engineering, Lendi Mr.A.Pradeep participated in Two days Hands on Training on Additive Manufacturing organized by VCEW AICTE IDEALAB during 26.12.2022 - 27.12.2022.

Mr.A.Pradeep participated in “Performance Analysis of Switched Reluctance Motor Drive System Operating with Front-End Converter” in the 3RD International Conference on Engineering and Advancement in Technology during 08.07.2022-09.07.2022.

Ms.A.Preethi participated in the “10-days National Faculty Development Programme on Unleashing Emerging Research Trends and Advancements in Computer Science” organized by School of Computer Science and Engineering at VIT-AP University during 04.07.2022-14.07.2022.

Ms.A.Preethi, Mr. D. Santhoshkumar participated in Online Faculty Development Programme on “Performance Analysis of Power Converters Using Various Modern Control Techniques for Research Perspectives” organized by Department of Electrical and Electronics Engineering , Aalim Muhammed Salegh College of Engineering on 27.08.2022.

Ms.A.Preethi participated in Five days online FDP on “Recent Trends in Cyber Security & Blockchain Technology” organized by Department of Computer Science Engineering, Oriental Institute of Science & Technology during 28.06.2022-02.07.2022.

Mr. D.Santhoshkumar, participated in One day National Level Workshop on “Design and Development of Drone-Hands on Experience” organized by Bharat-Ratna Indira Gandhi College of Engineering on 01.11.2022.

PARTICIPATION IN SKILL ENHANCEMENT PROGRAMMES (STUDENTS)

A.Nandhini and C.Saranya devi ,III year, participated in paper presentation on “Internet of Things” at National Level Technical Symposium “CODIX’22” conducted by Department of Computer Science and Engineering, AVS Engineering College on 12.10.2022.

S.S. Celica Begam,J.Deepa ,III year, Presented the paper and won III prize in the National Level Technical Symposium “ELECTRA COMMUNIX 2K22” Organised by the Department of EEE and ECE, Gnanamani College of Technology held on 12.10.2022.

S.Devi,V.V.Dharshini ,III year, Presented the paper in the National Level Technical Symposium “ELECTRA COMMUNIX 2K22” Organised by the Department of EEE and ECE, Gnanamani College of Technology held on 12.10.2022.

5 SIMPLE TIPS TO SAVE ENERGY

This Spring & Summer



1

USE AN ENERGY-EFFICIENT DEHUMIDIFIER

The average ENERGY STAR® certified dehumidifier can save up to \$175 over the life of the unit compared to a standard model. Look for the ENERGY STAR label when you shop—and take advantage of a \$25 rebate from Efficiency Vermont.

2

RETIRE THAT SECOND REFRIGERATOR OR FREEZER



If you have an older model in your garage or basement you're letting \$150 a year go to waste. You can claim a \$50 rebate for getting rid of that old fridge; we'll even pick it up and recycle it for you!



3

DON'T HEAT UP YOUR HOME WITH LIGHTING

Install efficient light bulbs. CFL and LED light bulbs operate cooler and cost less to use because most of the energy they use produces light instead of heat. Find where to buy discounted CFL and LED bulbs in Vermont.

4

USE A CEILING FAN



Fans are less expensive to operate and maintain than air conditioners. But remember to turn off ceiling fans when you leave the room. Fans cool people, not rooms.



5

STAY COOL ON HOT DAYS

Delay heat-producing tasks such as baking, dishwashing, or doing laundry until the cooler evening or morning hours.

BROUGHT TO YOU BY 

V. Dharaneswari,V.Kavya,V.Loga Dharshini ,III year, presented a paper entitled “Robotics process automation” with AI in the National level conference on Promoting Innovations in Environmental Research and Science(PIERS-2022), organised by QCPR & CMRL in association with NSS-BIT, Bannari Amman Institute of Technology during 18.10.2022-19.10.2022.

M. Dharsana,S.Iniyal,M.Divya,M.Sandhiya,M.Divya Dharshini, P.Shubha Harini,S.Narthani ,III year, attended the workshop on “AUTOMOTIVE EMBEDDED SYSTEMS”

Education's purpose is to replace an empty mind with an open one. — Malcolm Forbes

conducted as a part of SRISHTi 2K22, a National Level Technical Symposium, PSG College Of Technology held on 29.10.2022 -30.10.2022.

S.S. Celica Begam ,III year, successfully completed the Short course on “Communication Skills” organized by Oxford Home Study Centre on August 2022.

T.Jeevitha ,III year, participated in the Paper Presentation titled “Black Box and Aircraft Monitoring “ organized by the Department of Electronics and Communication Engineering ,Erode Sengunthar Engineering College on 20.10.2022.

M.Anitha ,III year, attended the Paper Presentation in SZIKRA-2K22, A National Level Technical Symposium, Jai Shriram Engineering College held on 28.09.2022.

C.Saranya Devi ,III year, participated in Paper Presentation in the National Level Technical Symposium and Project Contest “SCT FEST 2022” organized by BIOTECH,CIVIL,CSE,ECE,EEE and MECHANICAL Engineering,Selvam College of Technology on 29.09.2022.

S.S. Celica Begam ,III year, successfully completed the course on “Introduction to Cloud Computing” organized by Skillup on 19.08.2022.

T.Jeevitha ,III year, participated in the “Standup Comedy” and won I prize, organized by the Department of Electronics and Communication Engineering, Erode Sengunthar Engineering College on 20.10.2022.

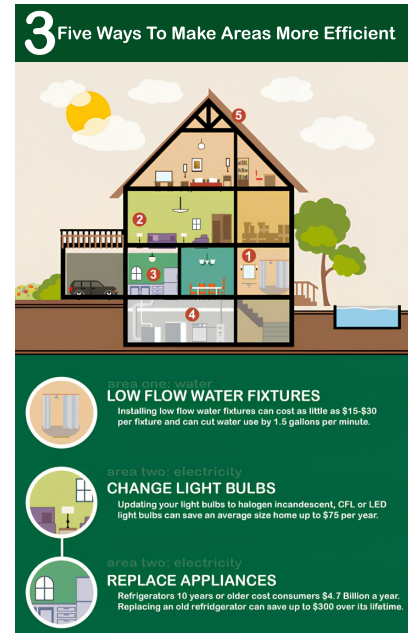
P.Vidhyabarathi, M.Kurshithbanu, III year, participated in Paper Presentation “Techfinix'22” National Level Technical Symposium, Paavai Engineering College during 20.10.2022-21.10.2022.

S.Devi,V.Soundarya,III year, participated in Wearable MEMS Hands-on training for Smart Watch application in health IOT on 06.01.2023.

V.V.Dharshini, III Year, participated in the “Poster Making competition and won I prize as part of the SVEEP contest 2022 about the Election, Electoral process and the “Power of One Vote” organized by Election Commission of India on 10.10.2022.

S.Sarvika, II year, successfully completed training Certificate course on “Video Editor(Adobe Photoshop Premiere Pro) organized by Government of India conducted on 05.11.2022-06.11.2022 to 12.12.2022-

13.12.2022.



INDUSTRIAL VISIT

Third and Second year students accompanied by the faculty members went on industrial visit to Mettur Thermal Power plant on 18.10.2022 and 20.10.2022 respectively.



A focused mind is one of the most powerful forces in the universe - Mark Victor Hansen

VIVEKANANDHA EDUCATIONAL INSTITUTIONS



"Vidhya Rathna"

Prof. Dr. M. KARUNANITHI, B.Pharm., M.S., Ph.D., D.Litt.,
Chairman & Secretary

TIRUCHENGODE CAMPUS

- ★ SWAMY VIVEKANANDHA MEDICAL COLLEGE HOSPITAL AND RESEARCH INSTITUTE
- ★ VIVEKANANDHA DENTAL COLLEGE FOR WOMEN
- ★ SWAMY VIVEKANANDHA COLLEGE OF PHARMACY
- ★ VIVEKANANDHA COLLEGE OF NURSING
- ★ VIVEKANANDHA SCHOOL OF ANM
- ★ SWAMY VIVEKANANDHA PHYSIOTHERAPY COLLEGE
- ★ VIVEKANANDHA ALLIED HEALTH SCIENCE COLLEGE (Co - Ed)
- ★ KRISHNA INSTITUTE OF OPTOMETRY AND RESEARCH
- ★ KRISHNA INSTITUTE OF HEALTH SCIENCE & RESEARCH (Boys)
- ★ KRISHNA INSTITUTE OF HEALTH SCIENCE (Boys)
- ★ VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN (Autonomous)
- ★ VIVEKANANDHA COLLEGE OF TECHNOLOGY FOR WOMEN
- ★ VIVEKANANDHA INSTITUTE OF INFORMATION AND MANAGEMENT STUDIES
- ★ VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN (Autonomous)
- ★ VIVEKANANDHA COLLEGE FOR WOMEN
- ★ VIVEKANANDHA COLLEGE OF EDUCATION FOR WOMEN
- ★ KRISHNA COLLEGE OF EDUCATION FOR WOMEN
- ★ VIVEKANANDHA VIDHYA BHAVAN MATRIC HIGHER SECONDARY SCHOOL
- ★ VIVEKANANDHA MEDICAL CARE HOSPITAL (VMCH)

SANKAGIRI CAMPUS

- ★ SWAMY VIVEKANANDHA NATUROPATHY AND YOGA MEDICAL COLLEGE (Co-Ed)
- ★ VIVEKANANDHA NURSING COLLEGE FOR WOMEN
- ★ VIVEKANANDHA PHARMACY COLLEGE FOR WOMEN
- ★ VIVEKANANDHA ANM SCHOOL
- ★ VIVEKANANDHA INSTITUTE OF HEALTH SCIENCE (Boys)
- ★ RABINDHARANATH TAGORE COLLEGE OF EDUCATION FOR WOMEN
- ★ VISWABHARATHI COLLEGE OF EDUCATION FOR WOMEN
- ★ VIVEKANANDHA ARTS AND SCIENCE COLLEGE FOR WOMEN

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