VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

(AUTONOMOUS)

TECHIONZ

NEWSLETTER

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DEC'22-APRIL'23 VOLUME 2

ABOUT THE INSTITUTION

Vivekananda College of Engineering for Women, an Autonomous institution, affiliated to Anna university accredited by NAAC, AICTE, New Delhi, TCS and ANISO 9000:2008 certified institute started in 2001 with 144 students, acquired an Autonomous status in 2013 academic year stretching its arm widely towards the students strength of 2200 and faculty of 200 at present. The institute offering 7 U.G. Engineering Degree Programmes (CSE, IT, CST, ECE, EEE, BME & BT), 5 P.G. Engineering Degree Programmes (CSE, IT, PSE,BT and VLSI Design), and all departments are recognized as research Centers under Anna University.

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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EDITOR'S DESK

It's our privilege to release the newsletter for this academic year 2022-23. We thank our team, staff members and the students for their kind cooperation.

PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/Development of solutions : Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct Investigations of Complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and Sustainability: Understand the impact of the Professional engineering solutions in societal and environmental contexts,and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and Team Work: Function effectively as an individual, andas a member or leader in diverse teams, and in Multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, asamembler and leader in a team, to Manage projects and in multidisciplinary environments.

PO12: Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long Learning in the broadest context of technological change.

Program Educational Objectives (PEOs)

PEO1: Graduates will have successful careers with strong fundamental and technical skills in industry that meet the needs of Indian and multinational companies.

PEO2: Graduates will become successful entrepreneurs with determination, development, self- reliance, leadership, ethic and moral values to exploit employability.

PEO3: Graduates will pursue higher education and engage in lifelong learning to foster personal and organizational growth.

Program Specific Outcomes (Psos)

Graduates of Computer Science and Engineering will be able to

PSO1: Develop computational solution to complex real world problems with modern programming tools.

PSO2: Demonstrate basic knowledge of computer applications and apply standard practices in developing feasible solutions for IT enabled services.

HoD'S MESSAGE

Dr.C.POONGODI, HoD/CSE

It gives me great pleasure to congratulate students, faculty members and staff of Computer Science and Engineering (CSE) Department for the Second publication of Newsletter in the academic year 2022-23. Newsletter offers valuable insights, tips and resources that inform and educate the students. It reaches the students inbox directly ensuring better visibility. In the era of engineering and technology this newsletter will motivate the faculty members and students to share their creativity and new ideas with the world, and it will help in their overall development. I am confident that the students of the CSE department would justify the credibility of the department by showing a high level of professional competence in their respective field.

I wish Best of Luck to all my dear students and the faculty members....!!!

DEPARTMENT VISION & MISSION

DEPARTMENT VISION

To empower women technocrats in the field of Computer Science and Engineering and prepare them for globalized high-tech society to orient them towards serving the dynamic needs of our nation.

DEPARTMENT MISSION

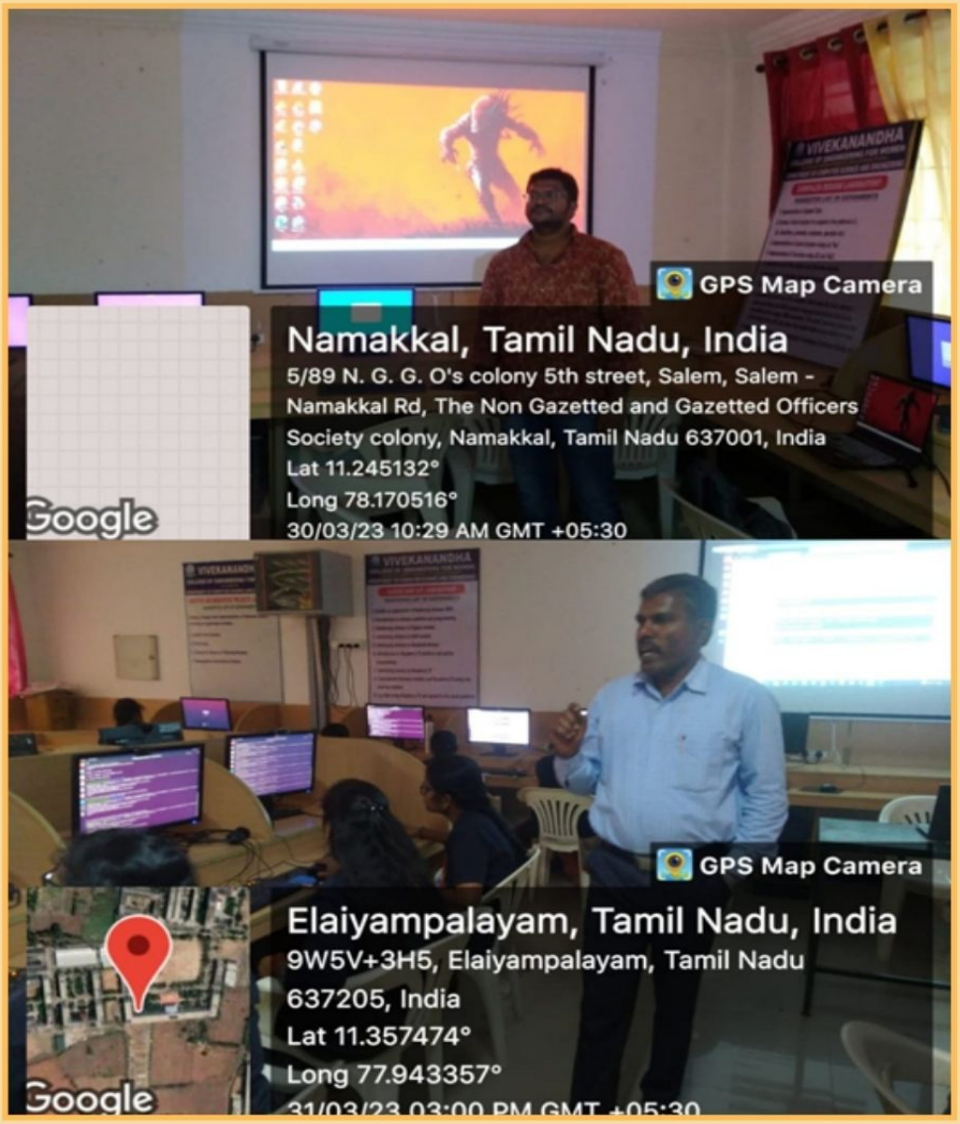
- **To foster and strengthen the core competence of Computer Science by adopting innovative methods.**
- **To elevate the research, entrepreneurial and employability skills in women technocrats through quality education.**
- **To induce values of professional ethics and spirit of social commitment among the student.**

WORKSHOP

December 8th & 9th, 2022 Two days hands on training on “Web development” conducted by our department with our chief guest Keerthana Managing Director of Let’s GameTech . We learnt how to design game using Stencyl and Unity softwares . We created a super mario game in the two days workshop. This session was very exciting, and fun filled when knowledge joins with games.

January 28th, 2023 Workshop on “Guest on Role of Algorthim design techniques in Engineering Application” is organized by our department with our chief guest “Ms. N.Anitha” Assistant Professor(SL.G)/IT department. We got insights on how to categorize the algorithms based on the designs and requirements and implementing it to the real life problems.

February 3rd, 2023 Computer Science and Engineering Department has organised an Inter College Technical Symposium named “GRAFIYA-2K23” inaugurated by our esteemed chief guest “Mr.Harishankher Selvaraj” , Talent Lead MBC(ZEN-FSD) and Head Placements. The chief guest delivered the address regarding “placements training“. His words enlightened our minds



March 30th & 31st, 2023 Two days hands on training on “Cyber Resilience Systems and Security” was organized by CSE department for II CSE students. Dr.T.Sudhakar Assistant Professor and Dr.Sibi Chakkravarthy Sethuraman Assistant Professor from VIT, Vellore acted as resource person.

April 5th, 2023 One day workshop on “Internet of Things” was organized by CSE department and Sai Ritish Research scholar in Chip Design at Object Automation and Gayathri Padhy having more than 16 years of experience in Hardware and Software design delivered a wonderful information and cleared the participants clarifications.

VALEDICTORY

April 19th, 2023 CSE department association (Bontonz) Valedictory function was conducted on 19th April 2023. Ramkumar Kuppuchamy, Associate Delivery Director for Cloud Migration Practice at Presidio Solutions Pvt Ltd has kindly consented to be the chief guest of the function. His deliverables include Communication skills, Goal achievement and Interaction among different kinds of personnals which was very useful to the students. Function comes to end by singing the Nation Anthem

TECH INFO

5G Technology

The 5G era is finally here, and the new year will see a lot of use cases in various fields and people utilising the benefits of the technology. Also, India will be one of the first countries where 5G will be used more by consumers than enterprises.

One of the main reasons for end consumers using more of 5G services in India, unlike any other country, is that India still has the cheapest data tariffs and 5G smartphones are also comparatively cheaper than several other countries.

Use cases like augmented reality (AR), virtual reality (VR) and gaming will be sought-after in India when 5G services gain momentum. According to a report by Deloitte-CII, India is poised to become a leading country in 5G penetration and development over the next 5-7 years due to its high population density, along with its reliable phase-wise launch plan in long-term scenarios.

Telecom service providers (TSPs) are working with the government to deploy use cases to accelerate commercial 5G adoption by enterprises and end users, while State governments are gearing up for adopting and integrating the technology in applications for enhanced governance, said the report.

However, a lot needs to be done, too, especially at the State-levels, when it comes to laying fibre and erecting towers.

5G and GDP

According to Kochhar, 5G network technology is expected to contribute about two per cent to India's GDP, amounting to $180 billion by 2030. According to Ericsson's mobility report, 5G subscribers in India are expected to reach around 690 million by the end of 2028, and urban areas are likely to have 5G services available for public consumption by March this year.

According to Nokia India, 2023 is also expected to witness wider adoption of private networks by enterprises and businesses for enhanced efficiency and security.

India will also see new reforms in the telecom sector, with the Telecommunication Bill being finalised by the second half of the year (Parliament is likely to clear it in the Monsoon Session), pave the way for more game-changing reforms in future.

V.Padmapriya
III CSE B

FOLDABLE SOLAR PANELS

If you thought solar panels were only for residences, industries, and commercial settings, then you might have been wrong! You'll be glad to know that with technological advancement, there are some solar panel variants that you can carry during camping and hiking for charging your gadgets. These are known as foldable or portable solar panels. Now you don't have to worry about charging your phones or laptops when they run out of battery.

Thanks to the foldable solar panel, it provides solar energy for electric appliances to work even during a remote trip. In other terms, you don't necessarily need to be in a specific location to use solar energy. Sounds fascinating? Let's learn more about foldable solar panels.

How Does a Foldable Solar Panel Work?

Similar to a normal solar panel, a foldable solar panel transforms the energy from the sun's rays into electricity through a charge controller. This controller is then attached to the device's battery to charge it. You must ensure that the solar panels face the sunlight and that the sun rays fall directly on the panels. This will help the panels convert the energy appropriately and use it to charge your devices. Once done, you can fold it up, put it in your Now that you know how it functions, let's help you understand the efficiency of a foldable solar panel Usually, the efficiency will range from 21.5% to 23.55% if it's a good foldable panel. You'll be able to charge your solar panels during the sunlight peak hours, bag, and carry it to the next location you're headed to.

The Efficiency of Foldable Solar Panels: Usually, the efficiency will range from 21.5% to 23.55% if it's a good foldable panel. You'll be able to charge your solar panels during the sunlight peak hours.

Types of Foldable Solar Panels:

Now, let us look into the types of foldable or portable solar panels. Generally, a foldable solar panel comes in three categories: monocrystalline, polycrystalline, and thin film.

Monocrystalline: Monocrystalline foldable solar panels are made from a single silicon crystal. Hence, they are more efficient than polycrystalline ones. They are better than thin film foldable solar panels too. Putting it out simply, these panels produce more energy than the other two types.

Polycrystalline: Unlike the Monocrystalline panel, a polycrystalline foldable solar panel comes in a blue shade. These panels are made of many silicon crystal fragments, making them less efficient than monocrystalline modules.

Thin Film:
As the name suggests, these solar panels are thinner than the other two types and are less efficient. This factor also makes them the cheapest kind. The thin film portable solar panels are made of many materials, like amorphous silicon, cadmium telluride, and copper indium gallium selenide.

Uses of Foldable Solar Panels:
Well, these panels are made with the intent to provide solar energy in places where there is no electricity. This means that you can take them with you to the beach or when you're camping or hiking. You can carry them to remote areas.

B.Shibidharsana
III-CSE-B

Helen Keller

Helen Keller, in full Helen Adams Keller, (born June 27, 1880, Tuscumbia, Alabama, U.S.—died June 1, 1968, Westport, Connecticut), American author and educator who was blind and deaf. Her education and training represent an extraordinary accomplishment in the education of persons with these disabilities.

Keller was afflicted at the age of 19 months with an illness (possibly scarlet fever) that left her blind and deaf. She was examined by Alexander Graham Bell at the age of 6. As a result, he sent to her a 20-year-old teacher, Anne Sullivan (Macy) from the Perkins Institution for the Blind in Boston, which Bell's son-in-law directed. Sullivan, a remarkable teacher, remained with Keller from March 1887 until her own death in October 1936.

Within months Keller had learned to feel objects and associate them with words spelled out by finger signals on her palm, to read sentences by feeling raised words on cardboard, and to make her own sentences by arranging words in a frame. During 1888–90 she spent winters at the Perkins Institution learning Braille. Then she began a slow process of learning to speak under Sarah Fuller of the Horace Mann School for the Deaf, also in Boston. She also learned to lip-read by placing her fingers on the lips and throat of the speaker while the words were simultaneously spelled out for her.

At age 14 she enrolled in the Wright-Humason School for the Deaf in New York City, and at 16 she entered the Cambridge School for Young Ladies in Massachusetts. She won admission to Radcliffe College in 1900 and graduated cum laude in 1904.

Having developed skills never approached by any similarly disabled person, Keller began to write of blindness, a subject then taboo in women's magazines because of the relationship of many cases to venereal disease. Edward W. Bok accepted her articles for the Ladies, and other major magazines—The Century, McClure's, and The Atlantic Monthly—followed suit.

She wrote of her life in several books, including The Story of My Life (1903), Optimism (1903), The World I Live In (1908), Light in My Darkness and My Religion (1927), Helen Keller's Journal (1938), and The Open Door (1957). In 1913 she began lecturing (with the aid of an interpreter), primarily on behalf of the American Foundation for the Blind, for which she later established a $2 million endowment fund, and her lecture tours took her several times around the world.

She co-founded the American Civil Liberties Union with American civil rights activist Roger Nash Baldwin and others in 1920. Her efforts to improve the treatment of the deaf and the blind were influential in removing the disabled from asylums. She also prompted the organization of commissions for the blind in 30 states by 1937.

Keller's childhood training with Sullivan was depicted in William Gibson's play The Miracle Worker (1959), which won the Pulitzer Prize in 1960 and was subsequently made into a motion picture (1962), starring Anne Bancroft as Sullivan and Patty Duke as Keller, that won two Academy Awards.

2023 PLACEMENT DETAILS

VURAM TECHNOLOGY

BHAVANI.J

SUJITHA LAKSHMI.R

HP

NARALA PRAVEENA

ZOHO

YUVETHIEKA SRI.G.V

PLINTRON

TAMILSANTHIYA.K.V

SOPRA STERIA

KALPUDI SAI LIKITHA

ULASA POOJITHA

JAYASRI.G

WISKILL

CHARUMATHI.G

LAVANYA.M

Hakuna Mata Tech

DEEPA K S

PALLE TECHNOLOGY

DEEPA K S

PRIYANGA.S

PROFUTURE TECH SOLUTIONS

LESA S

PANDI KAVYA

SLB

SHANMUGAVALLI S

VAKA VASANTHA

KGiS

KONDA LAKSHMI PRAHARSHA

ANN THERESA TOM

KAMALI P S

SUTHERLAND

NAVYA.A

MINIG A.M

CTS

JEYA NANDHINI K

THARANI.P.K

PAVITHRAYALINI.P

THATHIREDDY PU SHP AL ATH A

HEMABHARATHI.M

KAVYA.P.S

PRIYADHARSHINI R

VEMBUDHARSINI.V

NARALA PRAVEENA

LAVANYA M

ULASA POOJITHA

EVANGELINE ANGEL K

RAVULAPALLI LAKSHMI SUSMITHA

DXC

J. BHAVANI

AMUDALAPALLI AKSHAYA

ANU N

ANUSUYA S

ARCHANA T

DHANUSHA S

GOLLAKARAM GANGA BHAVANI

JAYASHRI G A

JEYA NANDHINI K

KIRUBASRI T

MADHUVARSHINI T

GOPAVARAPU SAI PRIYA

GUNTURU SAI SUSRUTHI

MANJU PRIYA.S

RAJARANGANAYAKI.R

THARANI.P.K

YAKSHITHA.K

PAVITHRA YALINI.P

YEGIREDDY DEEKSHITHA

SHOBITHA.S

VAKA RESHMA

ATOS GLOBAL IT()

CHARU MATH I.G

LAVANYA.M

JURAIDHA RUMMAN

BOINA SOWMIYA

BHAVADHARANI.B.S

KIRUTHIGA S

JADAPALLI SHIVANI

MUTHUKOWSALYA. R

MONISHA M

ANUPRIYA.M

HIKEON

HARINI A K

MOHANA PRIYA V

NIVETHA B

YASOTHA S

KOUSALYA.S

VIDHYA.P

GLOBAL QUEST

HARINI A K

NIVEDHA.B

KARISHMA R

KEERTHANA K

NAVYA.A

RAKSHANA.M

PRIYANGA.S

TCS

YEGIREDDY DEEKSHITHA

AYASRI G

CHARUMATHI G

BOINA SOWMYA

POOJA SHREE.C

LEELAVATHI V

SOWMIYA.V

YUVETHIEKA SRI.G

CGI

ABINAYA A

RAKSHAMBIKA.S

SHUNMATHI.N.R

PRIYADHARSHINI.P

SCHNEIDER ELECTRIC

KEERTHANA K

NAVYA.A

PRIYADHARSHINI.D

KEERTHIKA S

MAHESWARI P

BAVADHARANI G

KANISHMA S

JAYA NANTHINI S

SYRMA SGS

JADAPALLI SHIVANI

MONISHA.M

NIVEDHA.B

YASOTHA.S

KEERTHANA K

RAKSHANA.M

PRIYANGA.S

DEEPA K S

PRIYADHARSHINI.D

KEERTHIKA S

MAHESWARI P

BAVADHARANI G

KARISHMA R

MINIGA.M

JEYA NANDHINI K

ASWINI A

DEEPIKA V

GOPIKA V

HARINI S(17/6/2002)

HARINI S(12/7/2002)

HEMALATHA M

MANIMEGALA.T

NANDHINI.P

NARMADHA VARSHINI.N

NIVETHA.V

POOJADHARSHINI.K

PRIYADHARSHINI.A

RENISHA JEYAROXY.J

RIVITHA.P

SANGEETHA.M

SHAHANA.R

SNEHA.A

SOWMIYA.A

SOWMYA.R

TEJASHREE.R

UTHAYASRI.D

VAISHNAVI.P

YAMUNADEVI.V

RATHNAPRIYA.K

ANUPRIYA M

VIVEKANANDHA EDUCATIONAL INSTITUTIONS

"Vidhya Rathna"

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

Chairman & Secretary

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- SWAMY VIVEKANANDHA COLLEGE OF PHARMACY
- VIVEKANANDHA COLLEGE OF NURSING
- VIVEKANANDHA SCHOOL OF ANM
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- VIVEKANANDHA COLLEGE FOR WOMEN
- VIVEKANANDHA COLLEGE OF EDUCATION FOR WOMEN
- KRISHNA COLLEGE OF EDUCATION FOR WOMEN
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- VIVEKANANDHA PHARMACY COLLEGE FOR WOMEN
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- VISWABHARATHI COLLEGE OF EDUCATION FOR WOMEN
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