



SANKAGIRI

VIVEKANANDHA

ARTS AND SCIENCE COLLEGE FOR WOMEN

An ISO 9001:2015 Certified Institution | Affiliated to Periyar University, Salem

Recognised under section 2(f) and 12(B) of the UGC Act, 1956

Sankagiri, Salem, Tamilnadu, India



"Vidhya Rathna"
Prof. Dr. M. Karunanithi
B.Pharm., M.S., Ph.D., D. Litt.,
Chairman & Secretary



DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

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NEWSLETTER



Department of CS & CA



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**B.Sc,
M.Sc (CS)**

CS, IT, Cyber Security & BCA



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Editorial Desk

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Vision

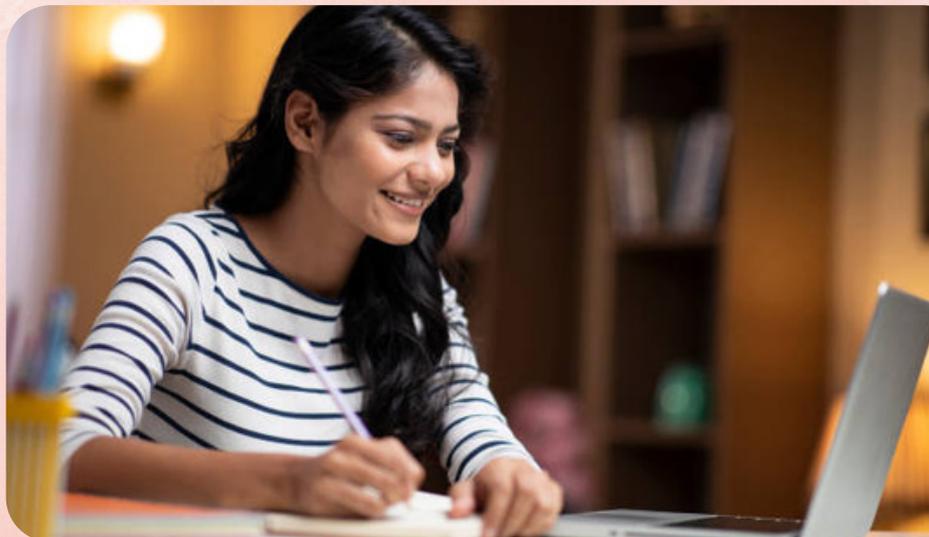
" To be a center of excellence in computer science and emerging technologies, fostering innovation, research, and entrepreneurship to shape globally competent professionals



Mission

- Provide quality education in computer science and emerging technologies.
- Promote innovation, research, and practical problem-solving.
- Nurture ethical, socially responsible, and competent professionals

The Department of Computer Science was established in 2014 with the launch of our B.Sc Computer Science program, followed by the introduction of our M.Sc Computer Science program in 2017. The Computer Science department provides a comprehensive learning experience, fueled by high-speed internet facilities that foster a conducive environment for learning and research. We proudly affiliate with esteemed organizations, including the ICT Academy of India, NPTEL, and Computer Society of India. Our students thrive under personalized mentorship, paired with experienced faculty mentors who offer tailored guidance and support. We cultivate a culture of academic excellence, providing opportunities for placement, career advancement, and lifelong learning. With seamless connectivity and access to digital resources, our students can further enrich their learning experience through virtual labs and certificate courses led by distinguished professors.



FACULTY ACHIEVEMENT

Acted as a Resource Person

- ▶ He acted as a Resource Person in the FDP on "Differential Teaching using AI" held on 31-07-2025 to 01-08-2025 at Bharathidasan University, Trichy
- ▶ He participated in a 1 Week ATAL - FDP entitled "AI - EMBEDDED PRECISION FARMING IN AGRITECH AND DIGITAL FORMING SOLUTIONS" organized by the Dept of Management, Kongu Arts and Science College (Autonomous), Erode



Dr. R. Nandhakumar
Asso. Prof. & Head / CS



FDP Attended

- ▶ She participated in a 1 Week ATAL - FDP entitled "AI - EMBEDDED PRECISION FARMING IN AGRITECH AND DIGITAL FORMING SOLUTIONS" organized by the Dept of Management, Kongu Arts and Science College (Autonomous), Erode

Mrs. K. Ranjitha
AP / CS & CA

FDP Attended

- ▶ She participated in a one-Week ATAL - FDP entitled "AI - EMBEDDED PRECISION FARMING IN AGRITECH AND DIGITAL FORMING SOLUTIONS" organized by the Dept of Management, Kongu Arts and Science College (Autonomous), Erode
- ▶ She participated in a one-day (04.08.2025) FDP titled "AI for Educators 360" organized by the Department of Mathematics, Arulmigu Arthanareeswara Arts and Science College, Tiruchengode



Mrs. N. Keerthika
AP / CS & CA



FDP Attended

- ▶ She participated in a three days online FDP series on "Empowering Educators in Next Gen Computing" on 04th - 07th Aug 2025 organised by Department of Computer Science & Applications, Vivekanandha College of Arts and Science for Women, Tiruchengode.

Mrs. T. Kavitha
AP / CS & CA

FDP Attended

- ▶ "He participated in a one-day hands-on workshop on 'Next Generation Energy Storage in Supercapacitor Technology (NEST),' organized by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology, Chennai, on July 24th, 2025."



Mr. S. Ramamoorthy
Asst. Prof. / Physics



STUDENT ACHEIVEMENTS



S. Kanishka , III CS A secured Second Place in the speech competition held as part of the Library Day Celebration held on 12.08.2025 .



Our III CS students participated and won 1st and 2nd places in three events and secured the Overall Championship in the National Level TechIntellect held at Shri Sakthikailassh Women's College, Salem held on 13.08.2025



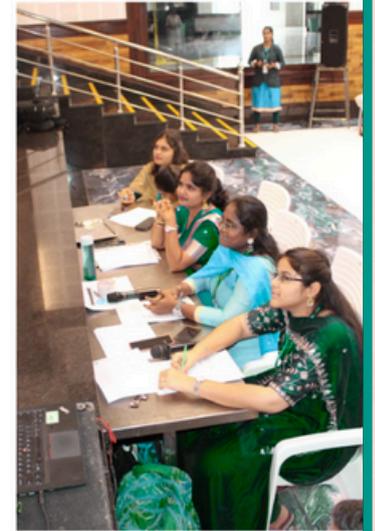
Our II B.Sc CS - IT and III B.Sc CS students participated. II B.Sc IT students won 1st prize in the Poster Making Competition organised by Excel Engineering College IIC events held on 26.08.2025



National Level Technical Symposium

22.08.2025





Nova Spark

2k25



**11 Events, 25
Colleges and 302
Outside
Participants**



The Department of Computer Science and Application organized a guest lecture featuring Mr. N. Ganesh, Founder & CEO of MG Health Tech Inc – USA held at CS Lab-II, the session enlightened 105 participants on AI-driven startup opportunities and industry trends.



workshop was very much informative by how to use AI tool to start a business in the concept of earn while learn

The AI rules all over the world. AI technology is inevitable in our present day to-day life.





Book Fair was arranged for all our First year B.Sc Students

Students are searching books for their life updation



Students were excited to visit the book fair and have gained rich experience about the importance of reading books in our daily life



Our II BCA and III BCA Students were in front of Madurai Meentchi amman temple



Students are in front of our college gate to departure their Industrial Visit

Students visited Idhayam Gingerly oil industry and they have gained rich exposure of processing and preparing high quality product and manufacturing



Our resource person Ms. Shanmathi, Data Analytics Trainer IDM Techpark, Coimbatore had shared thier expertise with our Students. There are 270 students got benefitted



Students have got practical experience with data analytical knowledge



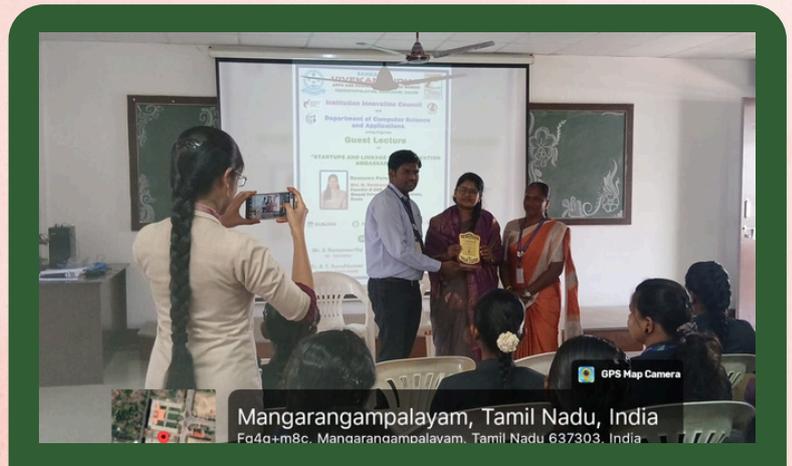
Students have got live demo with our data analytical experts



Footprint

Guest lecture on "Startups and Linkage with Innovation Ambassador" on 20.08.2025

Our resource person Mrs. Senthamarai, Founder & CEO, ShenAI private software solutions, Erode had shared their expertise with our students. There are 160 students got benefitted



Mangarangampalayam, Tamil Nadu, India
Fo4g+m8c, Mangarangampalayam, Tamil Nadu 637303, India



Students have got practical experience with data Starup Ideas in AI technology

Ms. Janani II B.Sc CS - IT Students have shared positive feedback



Our HoD Dr. R. Nandhakumar welcomed our III year students' parents on the occasion of parent teachers meeting



Our respected principal Dr.V.Padmanabhan sir interacted with the parents & discussed about the quality teaching and learning methodologies adopted in our college.

There are 30 parents willingly take part in the parent teachers meeting from III B.Sc CS and III BCA classes



Puzzle

Students solved a puzzle simulating how artificial intelligence processes information by identifying patterns and making decisions based on given data sets. The activity encouraged critical thinking about machine learning concepts like pattern recognition and decision-making.



Cybersecurity Escape Room

Students worked in teams to solve puzzles related to cybersecurity concepts such as password strength, encryption (Caesar cipher). This interactive activity promoted critical thinking & teamwork. It effectively engaged students with real-world cybersecurity challenges.

App Design Brainstorm

Students brainstormed innovative app ideas aimed at solving real-world problems and sketched wireframes illustrating their app's main features and user interface. This activity fostered creativity, user-centered design awareness, and an understanding of the software development process.



Sorting Network Race

Students participated in an interactive activity where they acted as numbers and moved through a physical sorting network, performing swaps based on comparisons. The activity strengthened their grasp of algorithm efficiency and data organization.



Algorithm Relay

Students worked in teams to write step-by-step algorithms for completing a simple task, such as drawing a shape or making a sandwich. The activity highlighted the importance of precision, sequencing, and debugging in algorithm design.

Binary Bracelet Coding

Students learned about binary number systems by converting letters of their names into binary using ASCII codes. This activity reinforced understanding of how computers represent text data and introduced concepts of binary encoding in a fun, creative way.



Sorting Network Race

Students sorting algorithms by holding number cards and moving through a “sorting network” drawn on the floor or greenboard. The activity helped students visualize algorithmic processes, comparison logic, and the efficiency of sorting methods.



Paper Programming

Students wrote step-by-step instructions (algorithms) to guide a partner through a simple obstacle course or grid using only basic commands like "move forward" or "turn left." This activity emphasized the importance of clear instructions, sequencing, and debugging in programming.



Logic Gate Puzzle

Students engaged in a hands-on activity using cards or diagrams to simulate basic logic gates such as AND, OR, and NOT. They solved puzzles by combining gates to achieve specific outputs from given inputs, reinforcing their understanding of digital logic.



Internet Scavenger Hunt

Students participated in an interactive scavenger hunt to research and answer questions related to computer science topics such as famous inventors, programming languages, and internet safety. The activity enhanced digital literacy, research skills, and knowledge of key CS concepts.



Design Your Own Emoji

Students used a pixel art editor (such as Pixilart or Piskel) to create custom emojis, applying principles of digital design and pixel-based image encoding. They explored how images are represented in computers and reflected emotions or ideas through minimalist visual elements.

Robotics with Paper Bots

The Students designed and built simple "paper bots" using paper, markers, and movable parts to simulate robotic motion and logic. They programmed their bots to follow basic commands (e.g., move forward, turn left) on a pre-drawn grid.



NOTICE Board

August - 2025

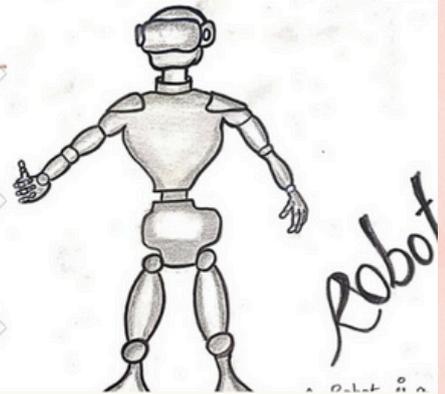


SHORTCUT KEYS IN EXCEL

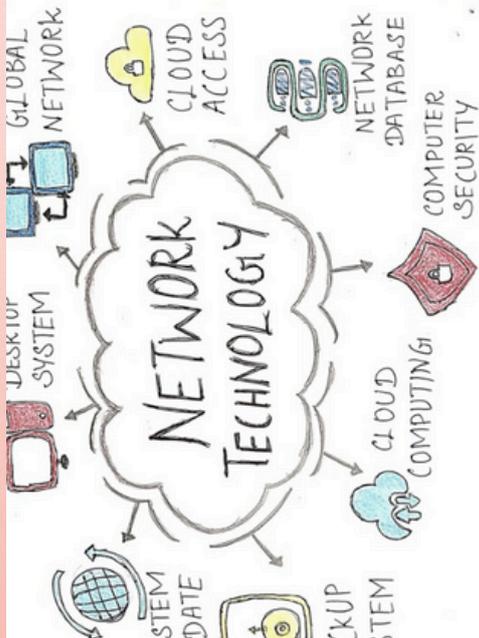
Ctrl + A	SELECT ALL
Ctrl + B	BOLD
Ctrl + C	COPY
Ctrl + D	FILL DOWN
Ctrl + F	FIND
Ctrl + G	GO TO
Ctrl + H	REPLACE
Ctrl + I	ITALIC
Ctrl + K	INSERT HYPER LINK
Ctrl + N	NEW WORK BOOK
Ctrl + O	OPEN FILE
Ctrl + P	PRINT
Ctrl + R	FILL RIGHT
Ctrl + S	SAVE
Ctrl + T	CREATE TABLE
Ctrl + U	UNDERLINE
Ctrl + V	PASTE
Ctrl + W	CLOSE WINDOW
Ctrl + X	CUT
Ctrl + Y	REDO
Ctrl + Z	UNDO



We're fascinated with robots because they are reflections of ourselves."
- Ken Goldberg



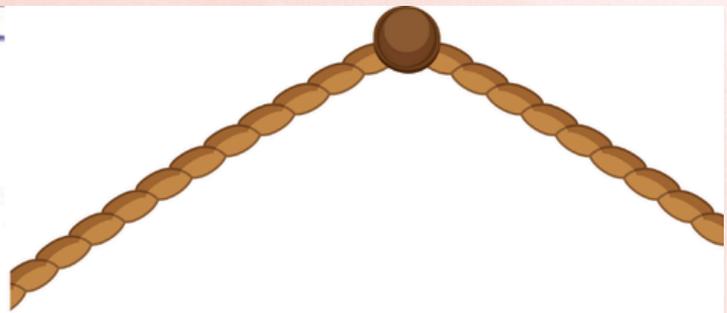
vibes



EMERGING TECHNOLOGIES IN TRENDS

AVAHIDHA III-C4-B

<p>MACHINE LEARNING</p> <p>MACHINE LEARNING It is an subset of AI which includes algorithms and machines to train machines to learn & perform task.</p>	<p>VIRTUAL REALITY It has experience an increase in popularity, creating computer generated environments that closely resemble real world.</p>	<p>CYBER SECURITY It is technology created to protect devices, networks and unauthorized access.</p>
<p>BLOCK CHAIN It is a method of recording information that makes hacking or manipulation of the system impossible and it is an secure technology.</p>	<p>ARTIFICIAL INTELLIGENCE It is the stimulation of human intelligence processes such as learning and making choices by machine on computer systems.</p>	<p>CLOUD COMPUTING It eliminates the need for individual & businesses to self-manage physical resources themselves.</p>
<p>DIGITAL THINGS This technology helps to optimize production process in the manufacturing industry and in the healthcare industry, it can be used for the stimulation of surgical processes.</p>	<p>SOFTWARE DEFINED NETWORKING It introduces the challenges such as security vulnerabilities due to the large networks and the need for elasticity to adapt to varying workloads.</p>	

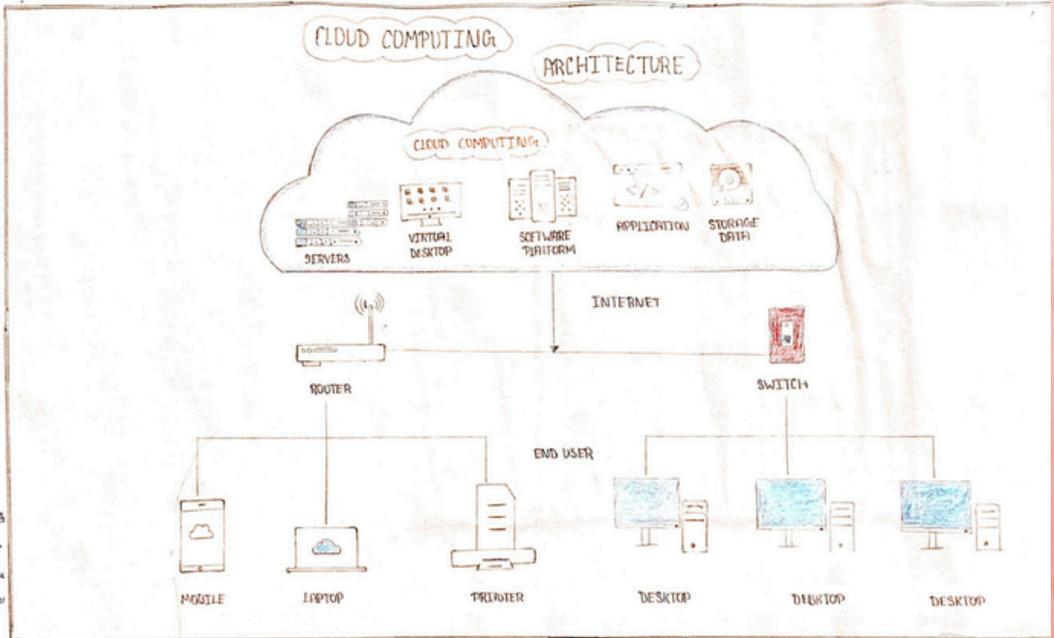


The Students Creativity was displayed in the notice board for the month of August 2025

CHARLES BABBAGE



Charles Babbage (1791-1871) was an English mathematician and inventor. Babbage is considered by some to be "father the computer," the first computer designed and partly built by the English inventor Charles Babbage in the 19th century using





VIVEKANANDHA EDUCATIONAL INSTITUTIONS

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 (Co- Ed)
Krishna Institute of Optometry & Research
Vivekanandha 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 & Sciences for Women (Autonomous)
Vivekanandha College for Women
Vivekanandha College of Education for Women
Krishna College of Education For Women
Krishnasree 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
Vivekanandha Pharmacy College for Women
Vivekanandha Nursing College for Women
Vivekanandha Arts & Science College for Women
Vivekanandha ANM School
Rabindranath Tagore College of Education for Women
Viswabharathi College of Education for Women

