#HASHTAG

#ITNLDEC2024

DEPARTMENT OF INFORMATION TECHNOLOGY

CONTENTS

SVCE | Sri Venkateswara College of Engineering

DEPARTMENT VISION

To cultivate an environment that empowers individual students to excel in the field of Information Technology at both national and global levels, by fostering innovative contributions and achievements through the provision of cutting-edge facilities and robust support systems.

DEPARTMENT MISSION

1. To create a transformative learning environment that empowers students with cutting-edge technology and resources, promoting active participation in Information Technology education, research, and innovation.

2. To advance the technical & ethical competencies, equipping students with the necessary skills to address the evolving demands of society and contribute effectively to the digital landscape.

3. To harness experiential learning opportunities in Information Technology, preparing students to develop innovative solutions that address engineering and technological challenges on both national and global levels.
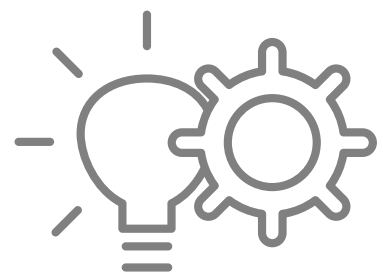
PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

Graduates will possess a comprehensive understanding of information technology principles and practices to analyze, design, develop IT solutions, addressing technical challenges across various industries through innovative and collaborative problem-solving.

2. Graduates will demonstrate a dedication to lifelong learning and professional development, equipping themselves with the knowledge and skills necessary to pursue advanced studies and engage in research in the field of information technology.

3. Graduates will apply their technical expertise and analytical skills to create innovative computing systems for real life challenges leading to entrepreneurial ventures.

PROGRAM OUTCOMES (POs)

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

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

- **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.

- **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.

- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

- **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.

- **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.

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

- **Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

- **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.

- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

- **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.

The B.Tech Information technology programme demonstrates the following two Programme Specific Outcomes (PSOs):

1. Apply domain expertise and programming skills to analyze problems and develop computational systems that address real world challenges.

2. Explore the state of the art technologies to meet the evolving demands of Information Technology industry and societal applications.

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The **students and faculty members of the IT** department extend their heartfelt gratitude to the management of SVCE for generously sponsoring **₹1,59,558** for **four teams** to participate in the **Grand Finale of SIH 2024**.

Thank You

SIH TITLE WINNERS

We are delighted to congratulate Team Hacktivists_24 on their outstanding achievement in the Smart India Hackathon 2024. The team, led by **Pooja A (III Year AD 'B') and comprising A Theeran (III Year IT 'B'), and Praveen Chandru S (III Year IT 'B'),J Pradeep Krishna (III Year AD 'B'), Mohammed Kaleemulla H (III Year CS 'B'), Purushothaman R (III Year CS 'B'),** , mentored by **Dr. G Janaka Sudha, ASP/CSE**, secured **First Place** with a cash prize of **₹1,00,000.** They developed an innovative solution for the problem titled **"Software solutions to identify users behind Telegram, WhatsApp, and Instagram-based drug trafficking"**, presented by **the Narcotics Control Bureau (NCB)** under the theme **Blockchain & Cybersecurity**. The event, organized by AICTE, was held at the **Indian Institute of Technology, Bhubaneswar from December 11–12, 2024**.

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Team **One Epoch_24**, comprising of **Ayush Nytik Joshi (TL) -** CSE 2 nd year, **Kevin Christopher-** CSE 2 nd year, **Antony Xavio Immanuel-** EEE 2 nd year, **Anisha OMS-** EEE 2 nd year, **Ashvatha R** - EEE 2 nd year & **Dhanesh V-** IT 2 nd year along with **Dr. V. Vidhya, HoD/INT & Ms. P. Meenakshi, AP/INT as mentors** participated in the **Smart India Hackathon 2024**. The PS was provided by ISRO and the challenge focused on enhancing images of the Moon's PSRs captured by Chandrayaan-2's OHRC to aid lunar exploration.

SIH FINALISTS

STUDENT ACHIEVEMENTS

The team, **Trailblazing Mavericks_24** with **Thiwahar B (Team Leader) , Vijay M, Sathyam Kumar R, Varun Sah V R, Sreevardhan B from III year INT B and Subhashree Meenaakshi P** from III year AIDS **along with Dr.P.Sharon Femi, ASP/INT (Mentor)** participated in the Grand Finale of the **Smart India Hackathon 2024, held at IIT Kharagpur, Kolkata, on 11th and 12th December 2024.**

STUDENT ACHIEVEMENTS

A Theeran (III Year IT 'B'), won **First Place** and a cash prize of **₹1,00,000** at the **Smart India Hackathon 2024**. His contribution to the Team **Hacktivists_24**'s solution for the **Narcotics Control Bureau (NCB)** was key to their success

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PLACEMENT CORNER

Manisha M, Mugesh D of final year IT got an **offer** from Celestica with a salary package of **10LPA**.

Jeffrin Sam J of final year IT got an **Intern** from **Celestica with a stipend of 40k per month**.
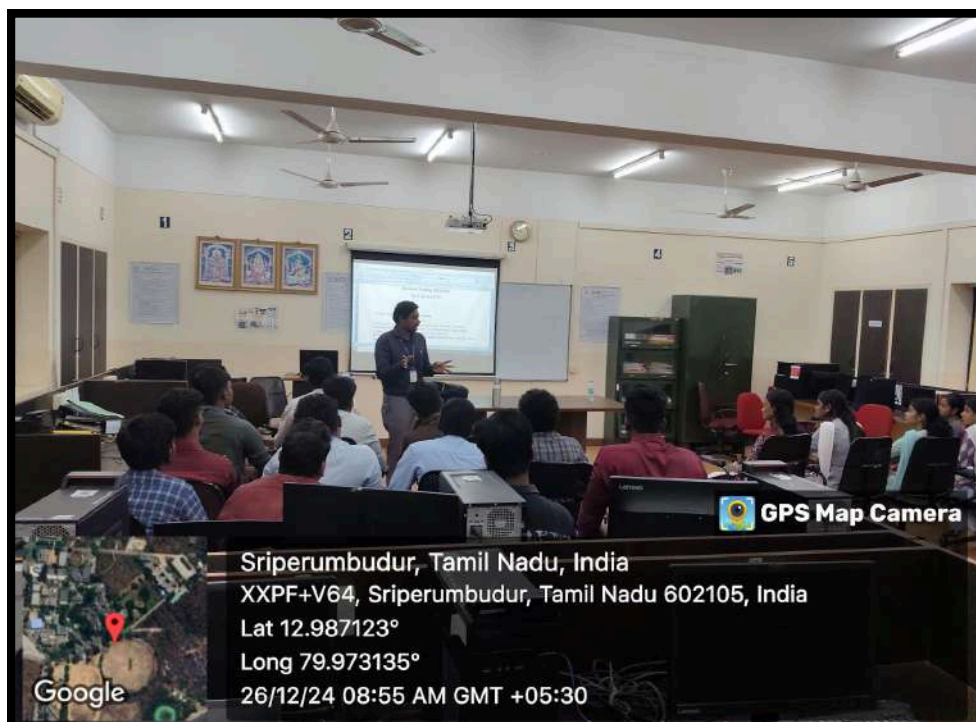
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PLACEMENT CORNER

Neha Jain G of final year IT got an **Intern** from **Amazon** with a **stipend of 1Lakh per month**.

TECHNICAL TRAINING

Technical training was organised for the unplaced students from 19.12.2024 to 28.12.2024.

Sriperumbudur, Tamil Nadu, India
XXPF+V64, Sriperumbudur, Tamil Nadu 602105, India
Lat 12.987123°
Long 79.973135°
26/12/24 08:55 AM GMT +05:30

FACULTY CORNER

COORDINATOR FOR TECHNOLOGY TRANSFER CELL

DR. C.YAASHUWANTH
PROF/INT

is appointed as the **college and department level** coordinator for technology transfer cell.

FACULTY CORNER

CONFERENCE PAPER PRESENTATION

DR. V.M.SIVAGAMI
PROF/INT

Presented paper titled, **"Enhancing Medical Image Diagnosis with Convolutional Neural Networks"** in the International Conference on Advances in Information Technology (ICAIT)and it is published in **IEEE Explore**.
https://ieeexplore.ieee.org/document/10690371.

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FACULTY CORNER

SESSION CHAIR

DR. V.M.SIVAGAMI
PROF/INT

Acted as **Session chair** for the Second International Conference on Advances in Artificial Intelligence Machine Learning in Big Data Processing (AAIMB - 2024) scheduled on 12-12-2024 at CSE department, S.A. Engineering College (Autonomous), Chennai.

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S A Engineering College Mba Block, Viraraghavapuram,
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Long 80.110884°
12/12/2024 03:58 PM GMT+05:00
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Sri Venkateswara College of Engineering

FACULTY CORNER

INFOSYS SPRINGBOARD CERTIFICATIONS

Dr. Devi N, ASP/INT, and Dr. Leela Rani P, ASP/INT, successfully completed the following courses in the **Infosys SpringBoard platform: Introduction to Natural Language Processing, Prompt Engineering, Introduction to OpenAI GPT Models, Introduction to Artificial Intelligence, Generative Models for Developers, Generative AI Landscape, and AI-First Software Engineering.** Additionally, they earned the **"Principles of Generative AI Certification" and the "Applied Generative AI Certification."**

FACULTY CORNER

INFOSYS SPRINGBOARD CERTIFICATIONS

Mr. Sivakumar E AP/INT has completed the following courses in the **Infosys SpringBoard platform:**
Basics of Python, Programming Fundamentals Using Python - Part 1, Programming Fundamentals Using Python - Part 2, along with the **Python Foundation Certification.**

Infosys®
Navigate your next

CERTIFICATE OF ACHIEVEMENT

The certificate is awarded to

SIVAKUMAR E

for successfully completing

Python Foundation Certification

on December 15, 2024

Infosys | Springboard

Congratulations! You make us proud!

Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited

Issued on: Sunday, December 15, 2024
To verify, scan the QR code at https://verify.onwingspan.com

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FDP ATTENDED

Dr. Devi N, ASP/INT has successfully participated & completed AICTE Training And Learning **(ATAL) Academy Faculty Development Program on Next Generation Telecommunications - Advancements, Challenges, And Future Prospects at ANNA UNIVERSITY f**rom 25/11/2024 to 30/11/2024.

FACULTY CORNER

FDP ATTENDED

Dr. Leela Rani P, ASP/INT & Mr. Guru Gokul AR, AP/INT has successfully participated & completed **AICTE Training And Learning (ATAL) Academy Faculty Development Program on Integrating Machine Learning and Deep Learning in Real-time IoT Systems (in Association with NVIDIA) at SAVEETHA ENGINEERING COLLEGE** from 02/12/2024 to 07/12/2024.

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FDP ATTENDED

Dr. A.Kala, ASP/INT attended the **Faculty Industrial Training and Internship on AR & VR with emphasis in Unity Engine** conducted by **Tamil Nadu Smart and Advanced Manufacturing(TANSAM)** from 02/12/2024 to 06/12/2024.

FACULTY CORNER

AIT GUEST LECTURE

On Dec 11,2024 Association of Information Technologists organized a Guest lecture titled **"The art of application: Bridging theory and real world relevance"** in association with Department of Information Technology. **Speaker: Ms. Meenakshi Chandrasekhar, Alumna(2008-2012 Batch),** working as Associate Director in Brand Analytics, US.

PROGRAMMES OFFERED

- B.Tech Information Technology
- M.Tech Cyber Forensics and Information Security
- Doctor of Philosophy (Ph.D)

CONTENT COMPILATION

Dr. V. Vidhya
HOD/IT

Dr. P. Sharon Femi
Associate Professor

Mr. N. Selvaganesh
Assistant Professor

NEWSLETTER EDITORS

Dr. Leela Rani P
Associate Professor

M. Buvarna Rithika
III Year IT-A

Sanjana Madankumar
II Year IT-B

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Department of Information Technology

SALIENT FEATURES

- Pioneered the introduction of the B.Tech IT degree programme.
- Centre of Excellence in Data Science & Cybersecurity
- Autonomous, Choice Based Credit System and Industry driven curriculum.
- Scope to acquire B.E. / B. Tech. (Honours) or Minor Degree.
- State-of-the-art facilities & industry supported laboratories.
- Interdisciplinary industry oriented research projects.
- Merit, Economic means, Merit-cum-Economic means & Sports scholarships to the deserving students.
- Excellent Career guidance - placement /masters in abroad universities / Civil services examinations / entrepreneurship.
- Sponsorship for professional skill development, Extra Curricular and Co-curricular activities.
- MoUs with various industries.
- An exclusive product development centre.

Research Themes

- Cyber Physical Systems
- Internet Of Things
- Data Science
- Cyber Security
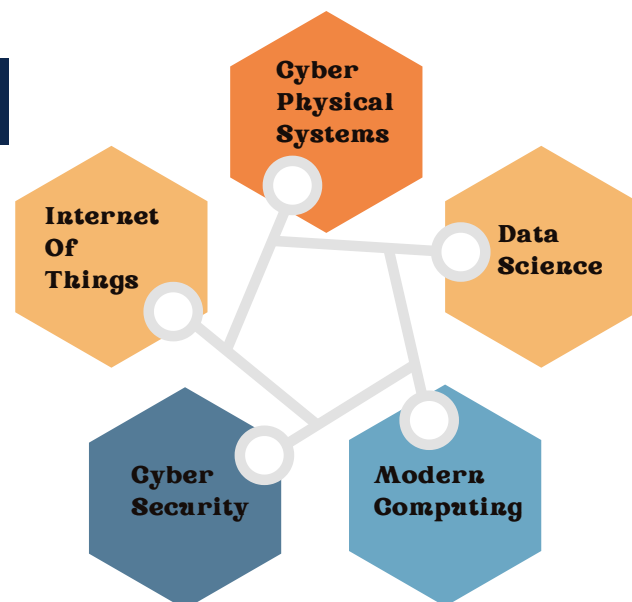- Modern Computing

PROGRAMMES OFFERED

- B.Tech Information Technology
- M.Tech Cyber Forensics and Information Security
- Doctor of Philosophy (Ph.D)

CAMPUS ADDRESS

Sri Venkateswara College of Engineering ,
Post Bag No.1, Pennalur Village, Chennai - Bengaluru
Highways, Sriperumbudur (off Chennai) Tk. - 602 117
Tamil Nadu, India

For more details, visit : https://www.svce.ac.in/departments/information-technology

DEPARTMENT OF INFORMATION TECHNOLOGY

M.TECH. CYBER FORENSICS & INFORMATION SECURITY

ABOUT US

M.Tech Cyber Forensics and Information Security is a comprehensive 2 years PG program designed to equip students with the knowledge and practical skills necessary to excel in the field of cybersecurity.

National Cyber Safety and Security Standards works with the Government and Industry on cyber policies. SVCE, recognized as a resource center, manages this through its IT department.

ELIGIBILITY

BE or B.Tech in

- Information Technology
- Computer Science and Engineering
- Electronics Engineering
- Electronics and Communication Engineering
- Information Security and Digital Forensics
- Other relevant branches from recognized institutions

Paving the Way for a Secure Future

- Chief Information Security Officer
- Forensic Computer Analyst
- Information Security Analyst
- Penetration Tester
- Security Architect
- IT Security Engineers
- Security System Administrator
- IT Security Consultant

FINANCIAL SUPPORT

Management Scholarship
Merit + Merit cum means + Economic means + Sports Scholarship

AICTE - PG Scholarship
Rs.12400 per month for 24 months for GATE/GPAT qualified PG students.

UGC - Post-Graduate Indira Gandhi Scholarship
For single girl child for PG programs Rs.3100 per month for 20 months.

Scholarships @ Rs.7,800/-per month (ME/M.Tech)
Contingency A @ Rs.15,000/- per annum (ME / M.tech)

- Tuition fees waiver (Rs.50,000/year) for 30% of the student class strength on merit basis as applicable.
- Management scholarships under economic means and merit cum means for tuition fees and assistance for books and instruments.
- Financial assistance to support innovative PG Projects under intramural research grant scheme.
- Sponsorship for students to attend conferences.

SUPPORT FOR PG STUDENTS

- **Student research day** to appreciate innovative research projects
- **Core IT company placements**, including CTS, TCS, Infosys, Accenture, Wipro, and Ericsson.
- **Outstanding PG Student Award:** Honoring the top-performing final-year PG student.
- **Certification Courses:** Access to NPTEL, MOOC, Coursera, and AWS certifications.
- **Competitions:** Students are encouraged to aim for awards like TNSCST, INAE, and Gandhian Awards.
- **Research Publications:** Guidance to publish in reputed national and international journals.
- **Strategic MoUs:** Collaborations with Infosys, Taylor's University, Worldline, Quadsel Systems, Rela Hospital, and more, offering internships, training, and placements.
- **Knowledge Access:** IEEE, Springer, ACM, Elsevier, and other journals available on campus for research support.
- **Industrial Exposure:** Regular industrial visits and expert guest lectures to enhance academic and research capabilities.
- **Leadership Development:** Opportunities to organize national-level technical symposiums.
- **Horizon Magazine:** A platform to showcase innovative research ideas from IT students.