



# SVCE TIRUPATI

EDUCATION FOR A BETTER SOCIETY



## Department of CSE

<News\_Letter:2024 July-December>



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[www.youtube.com/@SVCE\\_cse-  
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: svce.edu.in

## VISION OF DEPARTMENT

*To produce globally competent, dynamic and multi-talented young leaders with skill & knowledge in Computer science and Engineering to cater the contemporary demands of the software industry, thereby making them industry ready while at the institution and also to pursue higher education imbibing holistic approach.*

## MISSION OF DEPARTMENT

**M1:** *To impart high quality technical education in Computer Science and Engineering by providing core values.*

**M2:** *Advanced research and technical consultancy services with qualified and senior faculty.*

**M3:** *To prepare the learners professionally deft and intellectually adept possessing excellent skill, knowledge and behavior.*

**M4:** *To inculcate the leadership capabilities in learners to face the dynamic and challenging global work in the field of Computer Science and Engineering.*

## PROGRAM EDUCATIONAL OBJECTIVES

**PEO1-** *To impart foundations of applied science and engineering subjects in order to apply, analyze and solve problems in computational aspects.*

**PEO2:** *To inculcate ability in creativity and design of computer support systems and impart knowledge and skills to analyze, design, test and implement various Software applications.*

**PEO3:** *To strengthen higher education, research, prepare for globally acclaimed competitions, imbibe in civic-leadership qualities and to trigger social, ethical, holistic and behavioral approach.*

## PROGRAM OUTCOMES (POS)

**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, review 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 modeling 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, and as 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, as a member 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.

## PROGRAMME SPECIFIC OUTCOMES (PSOS):

### **PSO1: Problem solving skills :**

Ability to design and develop computing tools with moderate complexity in the areas pertaining to database, data analytics, networking, web and app design, IoT and information security with integration.



**PSO2: Professional Skills:** Ability to apply standard practices and methods in software project management and software development using suitable programming environments to deliver quality product to the industry.



## A MESSAGE FROM THE PRINCIPAL



I have great pleasure in conveying my best wishes to the Dept. of CSE for releasing the newsletter which brings the students and teachers of various disciplines on a common platform to share and display their ideas and creative talents, I wish all the students who have involved in bringing out the newsletter for their greater success and career ahead.

**Dr. N.SUDHAKAR REDDY, ME, Ph.D, FIE, MISTE.  
PRINCIPAL**

## A MESSAGE FROM THE HOD

The Department of CSE has been providing Excellent Opportunities for the students to explore & exhibit their academic , Co-curricular & Extra-curricular activities. This newsletter is an attempt to highlight the achievement of the department, in spite of the space constrain we have showcased the best and look forward to have more in the future on a quarterly editions. I wish good luck to the entire team of editors and look forward for your kind patronage to our newsletter.



**Dr .A. Ganesh,HEAD OF DEPARTMENT.**

# Faculty Research contributions & FDP'S

Dr. Prathusha have her Research Contributions as :

- Artificial Intelligence, Machine Learning & Data Science with Research Applications (21-10-2024 to 26-10-2024)

Dr. Prathusha conducted in-depth research on machine learning models and their applications in real-world scenarios. She explored deep learning techniques, predictive analytics, and AI automation while addressing challenges in healthcare, finance, and industrial automation.

- Advanced Excel with Power BI (17-02-2025 to 22-02-2025)

Dr. Prathusha researched business intelligence tools and created dynamic dashboards using Power BI for industry-specific applications.

Dr. T. Sree Lakshmi have her Research Contributions as :

- Empowerment of Robotics, AI, ML, and Additive Manufacturing (02-12-2024 to 07-12-2024)

Dr. T. Sree Lakshmi conducted research on robotics and AI integration in manufacturing. She also studied the role of additive manufacturing (3D printing) in enhancing automation and efficiency.

Dr. Sajida have her Research Contributions as :

- Outcome-Based Education & Application on Generative AI in Teaching & Research (18-03-2024 to 23-03-2024)

Dr. Sajida studied generative AI's potential in personalized education and adaptive learning models, applying it to enhance modern teaching methodologies.

- Next-Generation IoT: The Convergence of Designing Robust and Social Applications (02-12-2024 to 07-12-2024)

Dr. Sajida researched AI and IoT integration to create intelligent and socially robust systems for smart city applications.

- Quantum Computing & its Applications (09-12-2024 to 14-12-2024)

Dr. S. Sajida studied quantum algorithms and their applications in AI and ML to address optimization and computational challenges.

M. Chandrakala have her Research Contributions as:

- Recent Advancements in AI & IoT - Industry Perspective (25-11-2024 to 30-11-2024)

M. Chandrakala focused on emerging trends in AI and IoT integration for industrial automation.

- Cloud Architect (18-11-2024 to 22-11-2024)

M. Chandrakala researched optimization techniques for cloud computing architecture and their role in scalable applications.

S. Rajeswari have her Research Contributions as:

- Next-Generation IoT (02-12-2024 to 07-12-2024)

S. Rajeswari explored the integration of AI with IoT devices to develop intelligent automation systems. She focused on designing IoT frameworks for smart homes and industries, emphasizing energy efficiency and enhanced user experiences.





Omkar Reddy have his Research Contributions as:

- Revolutionizing Learning Hands-on with Generative AI & LLMs (09-12-2024 to 14-12-2024)

Omkar Reddy investigated the role of generative AI and large language models (LLMs) in education and research. He emphasized hands-on applications for creating personalized learning materials and fostering interactive teaching methods.

Mohammad Rafi have his Research Contributions as:

- Recent Trends & Predictions in Cybersecurity (11-11-2024 to 16-11-2024)

Mohammad Rafi researched contemporary challenges in cybersecurity, focusing on AI-powered security solutions. His work included the development of threat detection mechanisms and prediction models to counter cyberattacks.

N. Narendra Reddy had his Research Contributions as:

- Artificial Intelligence, Machine Learning & Data Science with Research Applications (21-10-2024 to 26-10-2024)

N. Narendra Reddy conducted research in AI, ML, and data science, focusing on applying these technologies to solve complex real-world problems across various domains such as healthcare and manufacturing.

R. Venkataramana have his Research Contributions as:

- Artificial Intelligence, Machine Learning & Data Science with Research Applications (21-10-2024 to 26-10-2024)

R. Venkataramana focused on developing machine learning models and data science methodologies. His research aimed at advancing the automation of decision-making systems in critical industries.

## Faculty Development Program:



The Faculty Development Program, organized by the Department of Computer Science and Engineering at Sri Venkateshwara College of Engineering, took place from October 21st to 26th, 2024. Faculty members from various disciplines participated in sessions led by esteemed experts in artificial intelligence, machine learning, and data science. The program covered foundational and advanced topics, including AI & ML introduction, Python essentials, probability and statistics, and AI-driven writing and publishing tools. Distinguished speakers such as Dr. RBV Subramanaym from NIT Warangal, Dr. G. Prem Kumar from SVCE, and Dr. Soumi Rani from Editage shared insights into various aspects of AI and ML, helping educators enhance their teaching techniques.

The later days of the program explored deeper concepts, including federated learning, neural networks, deep learning, regression techniques, machine learning algorithms, & classification methods. Speakers like Dr. Mallikarjun Reddy from IIIT Sricity, Dr. Chalavadi Vishnu from IIT Tirupati, & Dr. Ashok G. Matani from GEC Jalgaon guided participants through technical discussions and hands-on training. The program also included an industrial visit to IIT Tirupati, discussions on AI applications in research methodologies, and insights into future trends in AI and ML. The valedictory session, led by Dr. P. Viswanath from IIIT Sri City, marked the conclusion of the program, reinforcing its goal of advancing educators' professional growth & elevating the quality of education.



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25/10/24 09:17 AM GMT +05:30



## WORKSHOPS:

The work shop conducted on 17th to 22nd October. The workshop conducted in the department of computer science and engineering at Sri Venkateshwara College of Engineering. The Trainer name was ch.Gopiraju Technical Skill Trainer APSSDC. The workshop on AWS cloud computing. This work shop mainly conducted of 2nd year students. Mainly 5 to 6 labs have been conducted for this work shop.

The topics discussed in this work shop was about AWS and cloud computing, advantages, cloud delivery models, network configuration types.



This workshop is very effective and interactive for the students in the department. The trainer was also very interactive and the workshop ran very successfully.

Not only this the department continuously strives to conduct these type of workshops to improve the technical and communication skills of students.



## TECH SPARK & SPARK - Igniting Innovation and Culture at SVCE:

SVCE's flagship events, Tech Spark and Spark, are dynamic platforms that fuse technology, creativity, and cultural brilliance. Tech spark celebrates technical excellence with workshops, competitions, and exhibitions designed to inspire innovation among budding engineers. Spark, the college's national-level techno-cultural fest, brings a vibrant mix of tech showcases and cultural flair, making it a much-anticipated annual highlight on campus.

The nights came alive with electrifying music band performances by SVCE's own Music Club and guest artists, including the mesmerizing Swara Fusion ensemble and high-energy acts like Jashwitha and Team. The campus echoed with rhythm and melody, drawing massive crowds to the open-air stage. As the sun set, the excitement only grew—DJ nights turned the grounds into a dance floor, with dazzling lights, booming beats, and students grooving late into the night. It wasn't just a fest—it was a full-blown celebration of creativity, connection, and campus spirit.



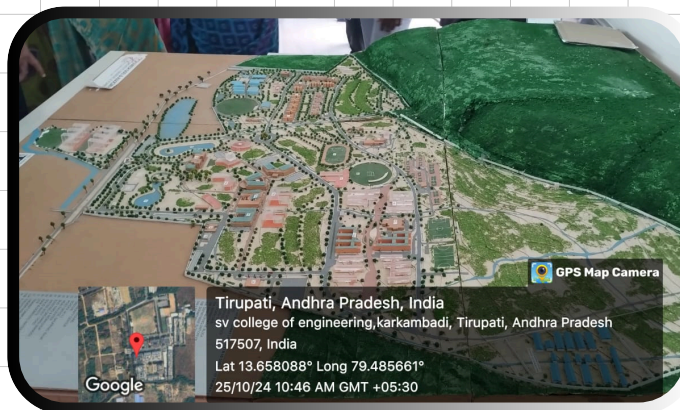


## INDUSTRIAL VISIT:

The faculty of Sri Venkateshwara College of Engineering Visited for industrial visit for IIT Tirupati on 25th October(Friday),2024.

The speaker was AI Expert,IIT tirupati came to guide the faculty. They saw the labs of that IIT, the college is structured very big and the labs are also built very technically. The internet also provided for students and there are more facilities provided in that college.

There is one lab in that college which consists of only Mac books.The faculty of our college got an idea on the labs and classes of the IIT college in tirupati.



## FACULTY GROUP PHOTO:

A timeless tradition at SVCE—our dedicated faculty of the Computer Science & Engineering department come together for their annual group photograph. This snapshot captures not just faces, but the collective spirit, mentorship, and unwavering commitment that shape the future of every student who walks through our halls.

