



SVCE | Sri Venkateswara
College of
Engineering

SVCE IQAC
Consciousness for Quality

SVCE BYTES

Newsletter
November 2023
(Vol 6, Issue 11)



CONTENTS

S.NO	HEADINGS	Pg. No
1	ABOUT THE DEPARTMENT	1
2	MESSAGE FROM HOD	9
3	STUDENT ACHIEVEMENTS	10
4	PLACEMENT ACTIVITIES	13
5	FACULTY ACHIEVEMENTS & INTERACTIONS	19
6	RESEARCH ACTIVITIES	23

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 1985. Over the past few years, the department has acquired national and international importance. This has been achieved by the collective and responsive effort of the faculty, the supporting staff and the students. The department is well equipped with excellent computing facilities, and has highly qualified faculty specialized in areas like Cloud Computing, Artificial Intelligence, Machine Learning, Data Analytics, Cyber Security, Networking, Data Mining etc.

Programmes offered:

- B.E. Computer Science and Engineering
- B.Tech. Artificial Intelligence and Data Science
- M.E. Computer Science and Engineering
- Ph.D. Computer Science and Engineering

VISION

To excel in providing education and research in the field of computer science and engineering in the cutting edge technology so as to produce competence professional at global level.

MISSION

- Providing competent and trained faculty members to enrich the aptitude of the student to generate innovative and effective problem solving skills with professionalism.
- Providing strong research and state of the art facility to the students to face dynamic challenges of industry and society.
- Educating the students to be successful, ethical and lifelong learners.

B.E - Computer Science and Engineering

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

- Create value to organizations as an employee at various levels, by improving the systems and the processes using appropriate methods and tools learnt from the programme.
- Run an organization successfully with good social responsibility as an entrepreneur, making use of the knowledge and skills acquired from the programme.
- Contribute to the future by fostering research in the chosen area as an erudite scholar, based on the motivation derived from the programme.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

- Ability to adapt to a rapidly changing environment by learning and employing new programming skills and technologies.
- Ability to use diverse knowledge across the domains with inter-personnel skills to deliver the Industry need.

B.E - Computer Science and Engineering

PROGRAM OUTCOMES (POS)

- **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 teamwork:** 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 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 lifelong learning in the broadest context of technological change.



B.Tech - Artificial Intelligence and Data Science

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

Artificial Intelligence and Data Science program will prepare its graduates:

- To solve real-world issues by developing intelligent computing systems to meet the emerging technology challenges in the industries.
- To apply professional and interpersonal skills through lifelong learning such as advanced degrees and research.
- To participate in collaborative learning and become successful entrepreneurs by ensuring ethical and moral values.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

- Apply the engineering concepts and evolve Artificial Intelligence-based models to solve real-world problems in various domains and deliver solutions with innovative ideas.
- Apply the concepts and algorithms of various learning models for deep analysis of data to provide high-end business decisions for advancement in the data science fields.

M.E - Computer Science and Engineering

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

Computer Science and Engineering program will prepare its learners:

- To understand the foundational and advanced concepts in Computer Science and Engineering to excel in research by adapting to the rapid advances in new emerging technologies.
- To critically analyze the emerging trends and technologies and future issues at multiple levels and propose research oriented solutions.
- To effectively communicate technical information, function effectively on teams
- To provide innovative solutions to real-world problems of society by following ethical practices
- To pursue lifelong multidisciplinary learning as professional engineers and scientists

PROGRAMME SPECIFIC OUTCOMES (PSOS)

- Graduates will gain advance-level competency and skills in core and emerging technologies of Computer Science and Engineering.
- Graduates will develop viable solutions to real-world problems through continuous learning and research skills

M.E - Computer Science and Engineering

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

Computer Science and Engineering program will prepare its learners:

- To understand the foundational and advanced concepts in Computer Science and Engineering to excel in research by adapting to the rapid advances in new emerging technologies
- To critically analyze the emerging trends and technologies and future issues at multiple levels and propose research oriented solutions
- To effectively communicate technical information, function effectively on teams
- To provide innovative solutions to real-world problems of society by following ethical practices
- To pursue lifelong multidisciplinary learning as professional engineers and scientists

PROGRAMME SPECIFIC OUTCOMES (PSOS)

- Graduates will gain advance-level competency and skills in core and emerging technologies of Computer Science and Engineering.
- Graduates will develop viable solutions to real-world problems through continuous learning and research skills



M.E - Computer Science and Engineering

PROGRAM OUTCOMES (POS)

- An ability to independently carry out research / investigations, identify problems and develop solutions to solve practical problems.
- An ability to write and present a substantial technical report document.
- Students should be able to demonstrate a degree of mastery in the field of Computer Science and Engineering
- Use research based knowledge, methods, appropriate techniques, resources and tools to solve complex engineering issues with an understanding of the limitations.
- An ability to function effectively by applying technical knowledge, ethical practices as an individual and a team member in the career.
- Recognize the need for independent, life-long learning and engage in the broadest context of technological change.

MESSAGE FROM HOD

Dr. R. Anitha

Professor & Head / CSE



I would like to express my sincere appreciation for all the tremendous efforts put forth by the newsletter team in the month of November 2023. This Newsletter 'CSE - BYTES' is a forum to expose the events, happenings, and achievements in the department as well as provide a platform to exhibit the talents of the budding engineers and the faculty as well.

This newsletter will definitely create an impact in the minds of readers by providing a wider visibility and new dimension to the learning community. I hope that this culture of releasing newsletter will continue forever with the support from both the students and the faculty.



STUDENT ACHIEVEMENTS

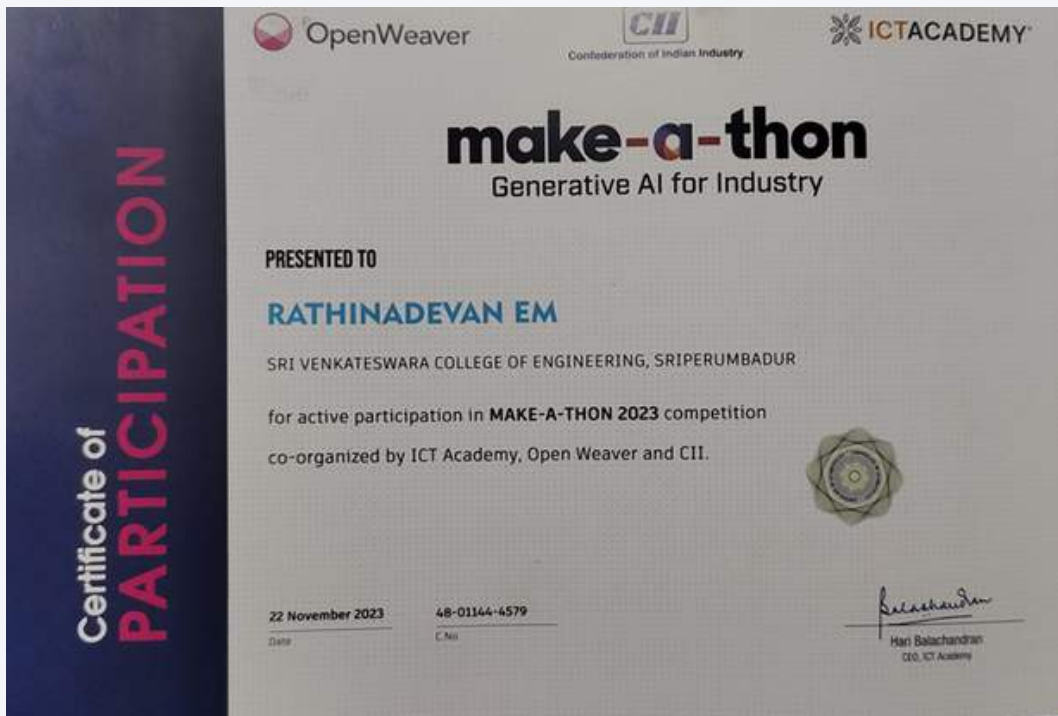
Academic Year

Nov 2023

STUDENT ACHIEVEMENTS

Mr. E. M. Rathinadevan and Mr. B. Praveenkumar, II / CS had participated in **Make-a-thon Generative AI for industry 2023**, a 24 hour digital application development challenge, organized by the ICT Academy in collaboration with Open Weaver under the mentorship of Ms. M. Shanthalakshmi, AP / CSE. This event was hosted by the Rajalakshmi Institute of Technology on 21-22 November 2023.





Make-a-thon Generative AI for industry 2023



PLACEMENT ACTIVITIES

Academic Year
2023-2024



PLACEMENT EVENTS

*Department of Computer Science and
Engineering*

Placement Report – November 2023

TRAINING AND PLACEMENT

The Training and Placement Cell (TPC) plays a vital role in the career development of students in educational institutions. It serves as a bridge between the students and the industries, facilitating the recruitment process and helping students acquire the necessary skills and knowledge to succeed in their careers. The Department of Computer Science and Engineering and Training & Placements conducts several Technical Training programmes to all students to develop their technical knowledge and soft skills in the areas of Aptitude, Logical Reasoning, Quantitative Reasoning and Verbal through the qualified and reputed faculty members. Training and Placement Cell organizes the Mock Interview for Pre Final year students by HR Managers from different industries.



Placement Events

PLACED STUDENTS 2023-2024

S.NO	REGISTRATION NO.	STUDENT NAME	Placed Company
1	2127200501154	TARUNA INDRAJITH	Fresh Works Ltd.,
2	2127200501153	SWETHA SAKTHI	Fresh Works Ltd.,
3	2127200501143	SOORYA B	Fresh Works Ltd.,
4	2127200502009	DIVYAMSH BALAJI	Fresh Works Ltd.,
5	2127200502026	NITHISH KUMAR B	Fresh Works Ltd.,
6	2127200502037	RAMANAPRASATH G	Fresh Works Ltd.,

Placement Events

PLACED STUDENTS 2023-2024



Fresh Works Campus Offered Students



Placement Events

PLACED STUDENTS 2023-2024

G- Cell (Global Education Cell)

The Department of Computer Science and Engineering (CSE) and the Placement Cell joined host a seminar on "Cultivating a Growth Mindset for Continuous Improvement." Conducted by LTIMindtree on November 23, 2023, the event aimed to inspire first-year Computer Science and Artificial Intelligence students. The seminar provided valuable insights for fostering a mindset geared towards ongoing personal and professional development.



Glimpses of G- Cell (Global Education Cell)

Placement Events

PLACED STUDENTS 2023-2024

The Department of CSE and Placement Cell hosted a seminar on Higher Education Opportunities in the United States on 3/11/2023. The event catered specifically to Computer Science and Artificial Intelligence. Dr. George Pappas, the Director of the MSAI Graduate Program at Lawrence Technological University, Michigan, served as the distinguished guest speaker for the informative session. The seminar aimed to provide valuable insights and guidance for students interested in pursuing advanced studies in the field.



EXPERT
SPEAKER

Dr. George Pappas
Director, MSAI graduate program
Lawrence Technological University
Michigan



3rd Nov, 2023
11:00 am



BIOTECH
CONFERENCE HALL

FACULTY ACHIEVEMENTS AND INTERACTIONS

ACADEMIC YEAR 2023-2024



FACULTY ACHIEVEMENTS

Dr. J. M. Gnanasekar Prof/CSE, has successfully completed **Microsoft, SAP & AICTE led Faculty Development program on AI evolution** : From Foundations to Generative AI under TechSaksham from 14th November 2023 to 18th November 2023 .



Certification on Faculty Development Program on AI evolution

FACULTY ACHIEVEMENTS

Dr. R. Jayabhaduri Prof/ CSE, Aadesh Vijayaragavan, R. Ajay Karthik and G. Ramanaprasath, Final year Undergraduate Student, B.Tech Artificial Intelligence and Data Science, and Mohamed Arshath, participated and presented our research work titled “3D Human Pose Estimation Using Deep Learning Model For Ergonomics” for the MMH-23 International Academic Research Conference "1st International Conference on Multidisciplinary Approaches in Medical and Health Sciences" happened in physical mode at Singapore during November 4-5,2023.



Presentation and Certificate of Participation



FACULTY ACHIEVEMENTS

- **Dr. R. Anitha, Prof/Head CSE**, participated in the Two Day Workshop on “**Blockchain Technology and Data Analytics**” organized by the Department of Computer Science and Engineering Sri Venkateswara College of Engineering held on 30th and 31st October 2023.
- **Dr. P. Geetha AP/ CSE**, attended 5 days Online FDP on **Tensor Flow for Machine Learning** from 27th November to 1st December 2023 organized by ICT Academy, Chennai.
- **Dr. P. Geetha AP/ CSE**, attended 3 days Web of Science Training and Certification program on **Effective scientific discovery and writing leveraging Web of Science: Discovery begins here!**, (November 20) **Selecting the right journal for publication and avoiding predatory journals** (November 22), **Reference Management and Good Citation Behavior** (November 24) organized by the Clarivate.



RESEARCH ACTIVITIES



ACADEMIC YEAR
2023-2024

23

Research Supervisors



Dr. R. Anitha, Prof. & HOD - CSE

Area of Interest: Cloud Computing, Data Mining, Large Scale Database, Data Structures and Algorithms & Big Data Analytics.



Dr. J. M. Gnanasekar, Prof - CSE

Area of Interest: Web Technology, Cloud Computing, Service Oriented Computing.



Dr. N. M. Balamurugan, Prof - CSE

Area of Interest: Artificial Intelligence, Machine Learning, Intelligent Networks, Internet-of-Things.

Research Supervisors



Dr. N. Rajganesh, Associate Professor - CSE

Area of Interest: Artificial Intelligence, Machine Learning, Cloud Computing, SOA.



Dr. P. Vinothiyalakshmi, Associate Professor - CSE

Area of Interest: Cloud Computing, Internet of Things (IoT), Machine Learning, Data Structures, OOPS, Operating System, Computer Networks, Data Mining.



Dr. M. S. Girija, Assistant Professor - CSE

Area of Interest: Wireless Sensor Networks, Artificial Intelligence and Machine Learning, Data Science and Analytics, Natural Language Processing

PAPER PUBLICATIONS

- **Dr. P. Geetha, AP/ CSE**, published a **SCI-Indexed journal** titled as **Optimal load balancing in cloud: Introduction to hybrid optimization algorithm, Expert Systems With Applications (An International Journal)**, Elsevier, Impact factor 8.5, DOI: <https://doi.org/10.1016/j.eswa.2023.121450>
- **Ms. Rupa Kesavan AP/CSE, et. al.**, published paper on “**Development of a compact IoT-enabled device to monitor air pollution for environmental sustainability**” in mdpi: <https://doi.org/10.3390/ecsa-10-15996>



PAPER PUBLICATIONS

Ms. R. Poorni AP/ CSE published a paper in the topic **"Vehicle Accident Analysis Using Data Mining Techniques"** released on November 16, 2023, their research explores innovative approaches to understand and prevent accidents. Access the full article on SSRN: <https://ssrn.com/abstract=4634769> or <http://dx.doi.org/10.2139/ssrn.4634769>.

CONFERENCES

Ms. Rupa Kesavan AP/CSE & Neha Bhende IV year CSE., presented and published paper titled "Energy Optimized Edge Computing Framework for the Sustainable Development of Modern Agriculture", in Engineering Proceedings at The 4th International Electronic Conference on Applied Sciences (ASEC 2023)



Certificate of Participation



PATENTS

Patent titled, **"SEARCH AND PLACE FILTER (SPF)-A PROBABILISTIC DATA STRUCTURE FOR VIRTUALIZATION"** has got the grant from Indian Patent Office (Patent No. 475501 & DoG: 30/Nov/2023).

Patentee: Dr. R. Anitha, Dr. Muralidharan Chandrababu, Dr. P. Vinothiyalakshmi, Dr. Padmavathy ThiruppathiRaj, Dr. Y. Mohamed Siraudeen .



Patent



PATENTS

Dr. P. Vinothiyalakshmi ASP/CSE, along with our **CSE IV year student Mr. M. N. Vijai Kumar** and faculty members **Dr. N. Rajganesh ASP/CSE**, **Dr. R. Anitha HoD/CSE**, filed a patent titled **“SMART ACCIDENT ALERT AND EMERGENCY INTIMATION SYSTEM FOR VEHICLE”**, in IPR and the same was published in the Patent Office journal.

SCHOLARS

Ms. P. Uma AP/CSE, has enrolled for her Ph.D in the area of Cloud Computing under the guidance of Dr. R. Anitha, Prof/Head, CSE, Sri Venkateswara College of Engineering.

Ms. Ajoye Sweetlin Jeena AP/CSE, has enrolled for her Ph.D in the area of IoT under the guidance of Dr. J. M. Gnanasekar, Prof./CSE, Sri Venkateswara College of Engineering.

Ms. Janani AP/CSE, has enrolled for her Ph.D in the area of Wireless sensor networks under the guidance of Dr.N.Kumaratharan, Prof./ECE, Sri Venkateswara College of Engineering.

DEPARTMENT
OF
COMPUTER SCIENCE AND ENGINEERING

CSE BYTES
EDITORIAL TEAM

Dr. N. RAJGANESH, ASSOC. PROF. / CSE
Dr. S. D. NANDAKUMAR, AP / CSE
Ms. R. POORNI, AP / CSE

SRI VENKATESWARA COLLEGE OF ENGINEERING
(AUTONOMOUS)
P.B NO: 1, PENNALUR, SRIPERUMBUDUR - 602 117



DEPARTMENT
OF
COMPUTER SCIENCE AND ENGINEERING

CSE BYTES
EDITORIAL TEAM

Ms. D. SHALINI, III / CSE
Ms. R. SWATHI, III / CSE
Ms. J. SRINITHI GANESH, III / CSE
Ms. V. SANGEETHA, III / CSE
Mr. K. B. VINOCHAN, III / CSE
Ms. S. VARNIKHA VARSHINI, II / CSE
Ms. T. SHRUTHI, II / CSE

SRI VENKATESWARA COLLEGE OF ENGINEERING
(AUTONOMOUS)
P.B NO: 1, PENNALUR, SRIPERUMBUDUR - 602 117





Sri Venkateswara College of Engineering
Pennalur Village, Chennai - Bengaluru High Road, Sriperumbudur Tk. - 602 117,
Kancheepuram Dist. Tamil Nadu, India
+91-44-27152000

