



Department of Computer Science and Engineering

Sai Vidya Institute of Technology

Accredited by NBA, New Delhi (CSE, ISE, ECE, MECH & CIVIL)

Rajanukunte, Bangalore-560064

SAMEEKSHA 2022

Edition 2022-23

(Feb 2022 - July 2022)

Vision

Contribute Dedicated, Skilled, Intelligent Computer Engineers to architect strong India and the world.

Mission

Provide quality education in Computer Science by promoting excellence in Instruction, Research and Practice. Promote Professional interaction and Lifelong Learning Encourage the youths to pursue career in Computer domain with modern innovation and ethics



Program Outcome (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.



Program Specific Outcomes (PSOs)

PSO1: Demonstrate the knowledge and understanding of working principles, design, implement, test and evaluate the hardware and software components of a computer system.

PSO2: Apply standard Software Engineering practices and strategies in software project development

PSO3: Demonstrate the knowledge of Discrete Mathematics, Data Management and Data Engineering.

Program Educational Objectives (PEOs)

Graduates will be able to:

PEO1: Graduates will have the expertise in analyzing real time problems and providing appropriate solutions related to Computer Science & Engineering.

PEO2: Graduates will have the knowledge of fundamental principles and innovative technologies to succeed in higher studies and research.

PEO3: Graduates will continue to learn and to adapt technology developments combined with deep awareness of ethical responsibilities in profession.



About Department

Computer science is a Science of Abstraction- Creating the Right model for a Problem & Devising The Appropriate Mechanizable Techniques to Solve It.

The Department of Computer Science Engineering (CSE) was established in the year 2008. The Department offers B.E (CSE) Undergraduate program and with an intake of 60 students and The Department is affiliated to Visvesvaraya Technological University, Belgaum, Karnataka. The Department has VTU affiliated Research & Development Centre offering M.Sc Engg by Research and Ph.D. Programs.

The Department is steered by Dr Shantakumar B Patil who has vast experience of 29 years. The department has an excellent team dedicated and experienced faculty members mentored by Dr. Ramesh Babu H S who is also heading the Institution as Principal with vast experience of more than 2 decades in academics and research work and also by Dr. A M Padma Reddy, Dean - Student Affairs, a renowned author of several computer science and Engineering books.

Director's Message

I am delighted to note that Department of Computer Science and Engineering, SVIT is bringing out Department Newsletter.

I appreciate the enthusiasm of eminent members of the Department who have contributed to the Newsletter. Department newsletter definitely provides a platform to showcase the activities and achievements of the students and staff such as: conferences attended by staff members and students, competitions won by students, innovative projects carried out by students with the guidance of staff, among others. I wish the students and staff of Department of Computer Science and Engineering, all success.



- Prof. M R Holla
Director, SVIT

Additional Director Message



-Dr. A M Padma Reddy

Additional Director, SVIT

Greetings to all the staff members, student friends, parents and other stake holders. I am delighted to present the newsletter of department of Computer Science and Engineering. With core emphasize on academics. The college standing by the spirit of its Vision had hosted many technical events to showcase the innovations of the young budding engineers. We continue to support the cause of contributing to the society and to the nation by providing a holistic growth to the students by imparting quality education and shaping their character through Induction Training programme.

Principal's Message

I am extremely happy that the Department of CSE is bringing out newsletter every year and this is an ongoing process portraying the various Departmental activities. It is great to find a considerable number of achievements in academic and non-academic activities which certainly prove that our staff and students are adequately equipped and possess necessary skill-sets to bring laurels to the institution. I wish that this number may grow in the years to come. My Congratulations to CSE team.



- Dr. Ramesh Babu H S

Principal, SVIT

Dean (R&D)'s Message



- Dr. Narayan K

Dean Research & Development, SVIT
B.E., M.Tech., Ph.D (IISc)

Department of CSE, is a very active and enthusiastic, student friendly department. The faculty have a student friendly attitude. It is headed by Dr Shantakumar Patil, who has decades of experience in teaching and research. The department has a very active IEEE student chapter. The department believes in the holistic and overall personality development of the students, to contribute to society. I wish the department all the best

HOD's Message



- Dr. Shanktakumar B patil
HOD CSE, SVIT

The Department of Computer Science & Engineering has recorded consistent improvement in its academic and placement performance. It offers a range of innovatively designed programs to meet the changing requirement of the industry. During study at the department, the students are encouraged to get hands-on experience from basic programming till corporate standards. They are made to sink with the present-day corporate world through mini projects, internship projects and workshops. With this brief introduction, I welcome you to be a part of our journey towards being a world class centre of excellence in education, training and research.

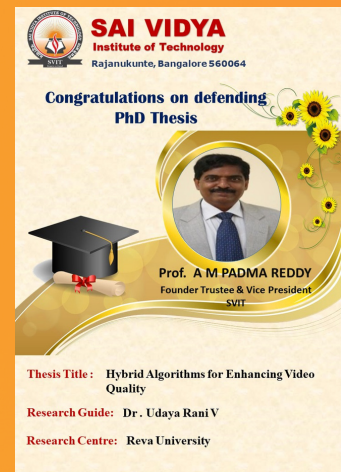
Congratulations on Successfull Completion of Research Ph.D

Dr. A M Padma Reddy

Thesis Title: Design of energy efficient and secure algorithm for wireless environment using public key

Research Guide: Dr. Udaya Rani V

Research Center: Reva University



Dr. Kshama S B

Thesis Title: Load balancing in cloud computing

Research Guide: Dr. Shobha K R

Research Center: VTU, Belagavi

Dr. Tejashwini N



Thesis Title: Design of energy efficient and secure algorithm for wireless environment using public key

Research Guide: Dr. Shashikumar D R

Research Center: Cambridge Institute of Technology



List Of Faculty Members in the Department

- **Dr. A M Padma Reddy**
Additional Director , SSVVSS
B.E., M.Tech., Ph.D
- **Dr. Ramesh Babu H S**
Principal, SVIT
B.E., M.S., Ph.D
- **Dr. Shantakumar B Patil**
HOD, CSE
B.E, M.Tech, Ph.D
- **Prof. Sreelatha P K**
Assistant Professor
B.E., M.Tech
- **Prof. Mamatha A**
Assistant Professor
B.E., M.Tech
- **Prof. Sunil G L**
Assistant Professor
B.E, M.Tech., (Ph.D)
- **Prof. Syed Matheen Pasha**
Assistant Professor
B.E., M.Tech
- **Prof. Pradeep Kumar K**
Assistant Professor
B.E., M.Tech., (Ph.D)
- **Prof. Salma Itagi**
Assistant Professor
B.E., M.Tech
- **Prof. Ashwini S S**
Assistant Professor
B.E., M.Tech
- **Prof. Anitha C S**
Assistant Professor
B.E., M.Tech
- **Prof. Kshama S B**
Assistant Professor
B.E., M.Tech
- **Dr. Tejashwini N**
Assistant Professor
B.E., M.Tech., Ph.D

List Of Technical Assistant in the Department

- **Mr. Sudharshan Bhatt**
Lab Instructor
- **Mr. Anand**
Lab Instructor
- **Mr. Manjunath**
Lab Instructor/System Administration
- **Mr. Pakeerappa**
Lab Incharge

Editorial Board

- **Prof. Pradeep Kumar K**
Assistant Professor
- **Pruthvi Darshan S S**
7th Sem, CSE
- **Srivishnu R L**
7th Sem, CSE
- **Ranjith N**
7th Sem, CSE
- **Ektha Priyadarshini**
4th Sem, CSE
- **Nivedhitha M**
4th Sem, CSE
- **S G Dhanush Kumar**
4th Sem, CSE



Graduation Day



Department of Computer
Science & Engineering
Batch 2017-22 on
30-07-2022

Best Outgoing Student 2018-22

Ms. Eshanya Bhatt receiving
“Best Outgoing student of
Department of CSE and College”
by Prof. M R Holla, Director, SVIT



Topper's Meet

Department of Computer Science & Engineering has practice of organizing 'Toppers Meet' every semester to motivate the students for achieving outstanding performance in the university examination. The Toppers meet for the academic year 2021-22 was organized on 1st August 2022. Additional Director, Principal and HOD's of CSE Department graced the occasion.



Event's Held in the Department

Two-days workshop on Ard-U-Know an step towards Arduino projects

One-Day workshop on "Ard-U-Know" towards Arduino projects by resources person:

Mr. Pradeep Kumar K
Assistant Professor., CSE., SVIT

Date: 19 December, 2021



Inauguration and 5 -Days Of Mobile Android Application laboratory

Inauguration Of Mobile Android Application laboratory new lab as per the VTU syllabus (18CSMP68)" by resources persons:

Dr. Shantakumar B Patil
HOD., CSE., SVIT

Date: 4 April, 2022



5 days Bootcamp workshop on Back End Development



Two-Days workshop on "5 Days Bootcamp workshop on Back end Development" using HTML, JS, and GO Language by resources persons:

From Apni Shiksha,
Mr. Vinat Kumar (Founder)
Ms. Priya Jha (COO)
Mr. Ankit Kumar

Date: 28th April - 2nd May, 2022



National Technology Day – 2022



Institution's Innovation Council (IIC) celebrated National Technology Day. Department of Computer Science and Engineering, Information Science and Engineering, Sai Vidya Institute of Technology in association with Institution's innovation Council (IIC) celebrated National Technology Day (11th May 2022) by organising Expertise talk on science and technology for society. Dr K C Gouda, Principal Scientist, CSIR Fourth Paradigm Institute, National Aerospace Laboratories (NAL) Bangalore was chief guest and resource person for event. In his wonderful session, he briefed about various innovative ideas.

Date: 11th May, 2022

Two days Workshop on Blockchain & Smart Contracts

Two-Days workshop on "Blockchain & Smart Contracts" by resources person:

Mr. Lohith J J
Assistant Professor., CSE., BMSCE

Date: 19th & 20th May, 2022



One-day hands on "Basic of QISKIT Programing and its Applications"



One-Day workshop on "Basic of QISKIT Programing and its Applications" for 4th Sem Students by resources persons:

Dr. Shantakumar B Patil
HOD., CSE., SVIT

Date: 13th June, 2022



Workshop on DevOps and its need in SDLC

One-Day workshop on "DevOps and its need in SDLC" by resources persons:

Dr. Shantakumar B Patil
HOD., CSE., SVIT
Mr. Ranjith Kumar T R
Associate Manager
DevOps Support Engineering
Accenture Technologies., Pvt. Ltd

Date: 13th August, 2022



Workshop training session on Virtual Labs

One Day workshop training session on "Virtual Labs" by resources person:

Mr. Pradeep Kumar K
Assistant Professor
Dept. CSE., SVIT
Mrs. Salma Itagi
Assistant Professor
Dept. CSE., SVIT

Date: 19 August, 2022



BEL Industrial Visit

BHARATH ELECTRRONICS LIMITED

Mrs. Sreelatha P K
Assistant Professor
Dept. CSE., SVIT
Mr. Pradeep Kumar K
Assistant Professor
Dept. CSE., SVIT
Mrs. Salma Itagi
Assistant Professor
Dept. CSE., SVIT

Date: 16th December, 2021



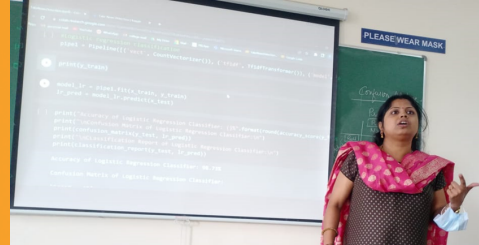
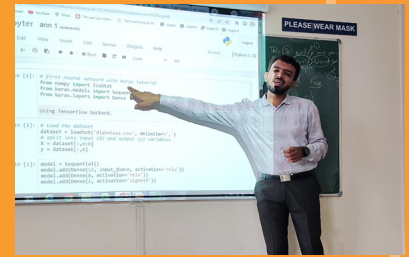
SDP TRAINING/WORKSHOP AT REVA UNIVERSITY

Four- Days Student Development Programme
at REVA University, Bengaluru

Resource Persons

- 1.Prof. Sreelatha P K
- 2.Prof. Mamatha A
- 3.Prof. Salma Itagi
- 4.Prof. Syed Matheen Pasha
- 5.Prof. Pradeep Kumar K

Topis: Machine Learning & its Applications



SDP TRAINING/WORKSHOP AT REVA UNIVERSITY

Four-Days workshop training session on
"batteries & its Application"

Resource Person

- 1.Prof. Pradeep Kumar K
- 2.Prof. Santhosh Y N

Topic : Batteries & its Applications



VISIT to IEEE MYSORE SUBSECTION STUDENTS CONGRESS

Two days Visit to VVCE Mysuru by 4th
sem CSE STudents

Date: 15th & 16th July, 2022



Students Achievements

Students participation in CBIT Paper Presentation and won 2nd Prize

6th Sem Students

Mr. Pruthvi Darshan S S

Ms. Rakshitha Mansi

Mr. Ranjith N

At CIT Tumkur



Students participated in DBIT, Bengaluru



Paper Presentation

6th Sem Students

Ms. Rithu Mohan

Ms. Bhavana P O

Students participated in GSSSIT Mysore won 2nd Prize

Project Presentation

8th Sem Students

Mr. Nachiketh and Team

Guided By:

Prof. Mamatha A



Students participated in GSSSIT Mysore



Project Presentation

6th Sem Students

Mr. Srivishnu R L

Mr. Pruthvi Darshan S S

Ms. Shreya P J

Mr. Ranjith N



Fashion Show Runner-up in Seshadripuram Institute of Commerce and Management

Fashion Show in "Samsrushti 2k22" organized by Seshadripuram Institute of Commerce and Management

Mr. Pruthvi Darshan S S, 6th Sem
Mr. Srivishnu, 6th Sem
Mr. Ranjith N, 6th Sem
Mr. Yashas Mithra, 4th Sem
Mr. Ashwini M H, 2nd Sem
Ms. Priya Venkatesh, 2nd Sem
Mr. Aditya Kiran, 2nd Sem



Students participated in Seshadripuram College



Fashion Show in "kalaavarna 2k22" organized by Seshadripuram Degree College

Mr. Ranjith N, 6th Sem
Mr. Srivishnu, 6th Sem
Mr. Pruthvi Darshan S S, 6th Sem
Ms. Shreya P J, 6th Sem
Ms. Prakruthi B S, 6th Sem
Mr. Yashas Mithra, 4th Sem
Mr. Ashwini M H, 2nd Sem
Ms. Priya Venkatesh, 2nd Sem
Mr. Aditya Kiran, 2nd Sem

Students participated in VTU Fest 2k22

Students participated in various activities supported by faculty members



Students participated in Singing Competition



Participated in "Western Vocal Solo Singing" by

Mr. Prajwal Skanda, 4th Sem

Student participated in Mimicry

Student participated in "Mimicry" competition by

Mr. Ranjith N, 6th Sem



Students participated in Western Group Singing



Students participated in "Western Group Singing" competition by

Mr. Prajwal Skanda, 4th Sem

Ms. Meghashree, 2nd Sem

Young NCC COY ECHO

SVIT witness the achievements of our NCC CADETS of very young NCC COY ECHO with colleges like RVCE and NMIT in NMIT CAMPUS .

Mr. Yashas A Mithra
Young NCC COY ECHO
4th Sem



Smart India Hackathon Finalist "The_Underdogs"

SIH Finalist Team "The_Underdogs"

Problem Statement ID: GM753

Problem statement:

To develop a virtual excavation 3D game for students to excavate sites, learn about objects excavated and also develop your virtual museum.

Mr. Aditya S Kanchi, 4th Sem
Mr. Rohith Badrinath, 4th Sem
Mr. Yashas Mithra, 4th Sem
Mr. Bharath S, 4th Sem
Ms. Vijaya Keerthana, 4th Sem
Ms. Kusuma K, 4th Sem

Mentored by:

Prof. Pradeep Kumar K

Category: Software



Smart India Hackathon Finalist "TECHIQ"



SIH Finalist Team "TECHIQ"

Problem Statement ID: OS871

Problem Statement Title: Attendance systems for students of government aided schools.

Ms. Varshitha M, 6th Sem

Category: Software

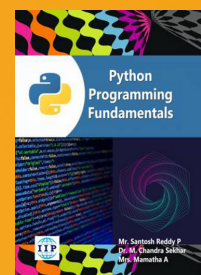


Faculty Publications

Python Programming Fundamentals

Prof. Mamatha A, published Book on Python Programming Fundamentals

Date: 11 May, 2022



A Review on Prediction of Crop Yield using Machine Learning Techniques

Author

Mr. Sunil G L

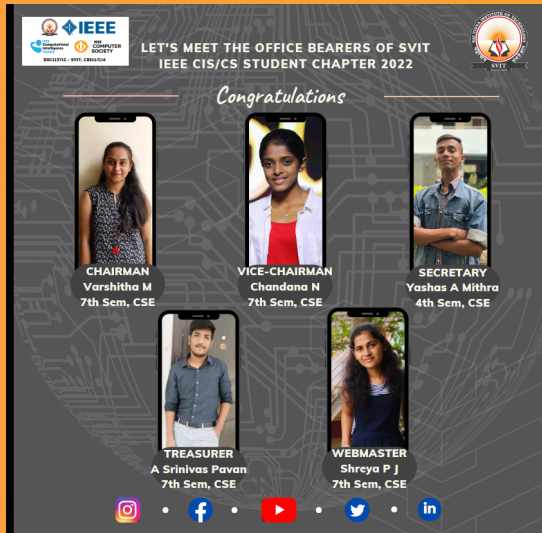
Sai Vidya Institute of Technology
Bengaluru, India

WEIGHT LIFTING

4th sem CSE student Anupam Saha
participation in VTU weight lifting competition



IEEE SVIT CIS/CS Student Chapter (STB11371C) CIS11/C16 for the year 2022!



Chairman:: Ms. Varshitha M., 7th Sem, CSE

Vice-Chairman:: Ms. Chandana Narayan, 7th Sem, CSE

Secretary; Mr. Yashas A Mithra, 4th Sem, CSE

Treasurer:: Mr. A Srinivas Pavan, 7th Sem, CSE

Webmaster; Ms. Shreya P J, 7th Sem, CSE

Prof. Pradeep Kumar K
Branch Counselor IEEE SVIT Student Chapter
Assistant Professor, CSE, SVIT

Prof. Sunil G L
Advisory Member IEEE SVIT CIS/CS Student Chapter
Assistant Professor, CSE, SVIT

IEEE SVIT Student Chapter (STB11371) for the year 2022!

Chairman: Mr. Ranjith N, 7th Sem, CSE

Vice-Chairman: Mr. Prajwal N, 4th Sem, ECE

Secretary: Mr. Yashas Mithra, 4th Sem, CSE

Additional Secretary: Mr. Shashank C, 7th Sem, ECE

Treasurer: Mr. Sumadhwa H M, 4th Sem, CSE

Webmaster: Mr. Pruthvi Darshan S S, 7th Sem, CSE

Dr. Narayan Krishnaswamy
Senior Member IEEE,
Branch Advisor IEEE-SVIT Student Branch
Dean Research & Development, SVIT, Bengaluru

Prof. Pradeep Kumar K
Branch Counselor IEEE SVIT Student Chapter
Assistant Professor, CSE, SVIT



Faculty Student Publications

Guide	Paper Tittle	Jounal Name	Publication Details (Volume, Issue,Page no. , Year)	ISBN/ISSN
Prof. Pradeep Kumar K	Stock and Cryptocurrency Price Prediction using ARIMA Model	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-10 , Issue 7, Page 980-986, july 2022	ISSN 2455-6211
Prof. Pradeep Kumar K	Survelliances of the visitor at the central level meeting as a E-Acceptance ticket	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-10 , Issue 7, Page 2286-2291, july 2022	ISSN 2455-6211
Prof. Sreelatha P K	Traffic Controlling Object Detection	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-10 , Issue 7, Page 2046-2050, july 2022	ISSN 2455-6211
Prof. Syed Matheen Pasha	Sign language detection using Action Recognition	International Journal of All Research Education and Scientific Methods	Volume-10 , Issue 10, Page- 1416-1421	ISSN 2455-6211
Prof. Salma Itagi	Design of Virtual Assessment Application System based on Python GUI and Face Detection to supervise pupils during E-examination	IEEE International Conference on Data Science and Information System	2022	IEEE Transactions
Prof. Mamatha A	IoT Based Automatic Safety Monitoring system for COVID -19 Prevention	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-10 , Issue 7, Page1042-1048, july 2022	ISSN 2455-6211



Faculty Student Publications

Prof. Salma Itagi	Deep Learning Techniques for Detecting of Lung Cancer and Prediction of Life Expectancy Post Thoracic Surgery	International Journal of Scientific Research in Engineering and Management	Volume 06: issue 10, July 2022	ISSN 2455-6211
Prof. Kshama S B	A Comparative Study on CNN and Transfer Learning Models for Image Classification to Detect Quality of Fruits	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-10 , Issue 7, Page1329-1336, july 2022	ISSN 2455-6211
Prof. Ashwini SS	Predicting Covid-19 based on Chest X-ray images using Attention guided Contrastive Guidance	International Journal Scientific Research in Engineering and Management (IJSREM)	Volume 06, Issue 08, Page 1-11, August 22	ISSN 2582-3930
Prof. Ashwini SS	Crime Detection using Naïve Bayes Algorithm	International Journal of Scientific Research in Engineering and Management (IJARESM)	Volume 06, issue 07, page 1-5 july 2022	ISSN 2582-3930
Prof. Anitha C S	Text-it	International Conference on Engineering Innovation	3rd June 2022	
Dr. Shantakumar Patil	Prediction of Green House Gas Emission in Cars using Machine Learning	International Journal of Novel Research and Development (IJNRD)	Volume 7, Issue 6, page 763-769 june 2022	International Journal of Novel Research and Development
Prof. Syed Matheen Pasha	Predicting Depression Using Health Care Data	International Journal of All Research Education and Scientific Methods	Volume-10 , Issue 10, Page- 1416-1421	ISSN 2455-6211
Prof. Mamatha A	Alzheimer disease detection using MRI Scan	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-10 , Issue 7, Page1042-1048, july 2022	ISSN 2455-6211





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