



SATTVA

DEPARTMENT NEWSLETTER

April 2022 – July 2022

Department of Electronics & Communication Sai Vidya Institute of Technology

(Affiliated to Visvesvaraya Technological University, Belagavi | Recognized by Govt. of Karnataka | Approved by AICTE, New Delhi)

Accredited by NBA (ECE, CSE, ISE, MECH, CIVIL)

Rajanukunte, Bengaluru – 560 064



VISION

- To become a center of academic excellence with innovations to make a significant contribution to the society in the field of Electronics and Communication Engineering

MISSION

- To Educate and Empower the students with state-of-art knowledge and innovation in Electronics & Communication Engineering to meet the global challenges
- To imbibe the professional competency and ethics congenial to the society through training

About the Department:

Department of Electronics and Communication Engineering at Sai Vidya Institute of Technology has an UG (B.E) intake strength of 120 students divided into two sections. The primary objective of the department has been to impart quality technical education to the students. The department is known for its quality, practical based and research-oriented education imparted to students. Which helps the students to face the real-world challenges of the fast-changing technical world. To make the students technically aware of the advancements in technology around the world the department provides additional training sessions, workshops, hands on, webinars, Industrial Visits and other events. We also provide the students with personality development classes, SSB training for armed forces and GATE Coaching, for the student's overall development.

Program Educational Objectives (PEOs):

PEO1:	• Design & Develop Innovative electronic systems
PEO2:	• Effectively communicate technical information, successfully lead and participate in a multi-disciplinary team environment
PEO3:	• Engage in lifelong learning through continuing education and industrial practice
PEO4:	• Demonstrate professional ethics and social awareness

Program Specific Outcomes (PSOs):

PSO1	• Design and simulate Electronics and Communication systems using concepts and tools of electronic circuits, signal processing, VLSI technology and communication.
PSO2	• Architect, partition and select appropriate technologies for implementation of a specified electronics & communication system

Director's Message



I am delighted to note that Department of Electronics and Communication 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 Electronics and Communication Engineering, all success.

Prof. M R Holla
Director, SVIT

Additional Director's Message



Greetings to all the staff members, student friends, parents and other stake holders. I am delighted to present the newsletter of Department of Electronics and Communication and Engineering. With core emphasize on academics, Department of Electronics and Communication Engineering also motivates and nourishes students and staff members in cocurricular and extracurricular activates. 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.

Prof. A M Padma Reddy
Additional Director, SVIT

Principal's Message



I am extremely happy to know that the Department of Electronics and Communication Engineering, SVIT is bringing out newsletter for the academic year 2021-2022 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 ECE team.

Dr. H S Ramesh Babu
Principal, SVIT

HOD's Message



Dear Students,

On behalf of entire Department of ECE, I welcome you all. I am very sure after the end of four year you will come out with flying colors professionally qualified. Our Department has outstanding teachers such as Prof. Y Jayasimha, Dr. Chaya B M , Dr. Venkatesha & Dr. Asha K among others. Department of ECE has done tremendous achievements in the field of research and developments by Dr. Narayan K, Dean R & D catalyzed & supported by Vision Group on Science and Technology (Dept. of IT, BT & ST Govt. of Karnataka). The department is constantly encouraging and supporting the students to present.

Prof. Vikramathithan A C
HOD, ECE

About SATTVA:

We are always on the go at the Electronics and Communication Engineering at Sai Vidya Institute of Technology, whether it's conducting Workshops, Webinars, Events, Competitions, or a range of other activities for our students to broaden their horizons beyond the classroom. We are proud of our students, staff's, and department's accomplishments in a variety of technical and nontechnical activities.

In 2016, our department introduced a Sattva to capture all of our activities and accomplishments. Sattva is a bi-annual newsletter that chronicles a variety of accomplishments and events.

The editorial team is thankful to all those who contributed to this edition. We appreciate your support and feedback.

Happy Reading...!

Editorial Board:

Chief Editor: Prof. Vikramathithan A C

Editorial Board Members: Dr. Chaya B M
Prof. Nayana K

Student Editors:

Ms. Aishwarya K (4th B)

Mr. Prajwal N (4th B)

Mr. Sohan S (4th A)

Mr. Anjan S (6th A)

Mr. Anvith Sharma (6th B)

Ms. Shreya U S (6th B)

Ms. Padmashree J (8th A)

Mr. Likith C S (8th B)

Mr. Vinamraa V (8th B)

Advisory Board Members:

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Associate Professor, Department of
ECE, Indian Institute of Science, Bangalore

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Professor, Department of ECE, The
Oxford College of Engineering, Bengaluru

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Professor, Department of ECE,
Malnad College of Engineering, Hassan

Mr. Srikanth

HR Manager, Velankani Electronics, Bengaluru

Mr. Sripad

Design Engineer, Sri Dutt Technologies Pvt. Ltd, Bengaluru

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Department of Telecommunication Engineering, Sir. MVIT Bengaluru

Dr. Hanumantha Raju

Professor, Department of ECE, BMSIT, Bengaluru

Dr. Rajani

Associate Professor, Department of ECE, RNSIT, Bengaluru

Ms. Ananya N

Alumni (2013-17 Batch), Working at Hewlett Packard Enterprise Technical
Solutions Consultant

Faculty:

Prof. Y Jayasimha, Dean Academics & Associate Professor

Dr. Narayan K, Dean R&D, Professor

Dr. Mukesh Kumar Singh, Professor

Prof. Vikramathithan A C, Associate Professor & HOD

Dr. Chaya B M, Associate Professor

Dr. Venkatesha M, Associate Professor

Dr. K Srinivas Rao, Associate Professor

Dr. Asha K, Associate Professor

Mr. Suryanarayana N K, Assistant Professor

Ms. Pavithra G S, Assistant Professor

Mr. Pavan Kumar E, Assistant Professor

Ms. Nayana K, Assistant Professor

Mr. Darshan R V, Assistant Professor

Ms. Prabha K, Assistant Professor

Ms. Akshith Monnappa, Assistant Professor

Mr. S Manjunatha Chari, Assistant Professor

Dr. Manoranjan Kumar, Assistant Professor

Ms. Monisha Raj, Assistant Professor

Mr. Nagayya S Hiremath, Assistant Professor

Mr. Advait P R, Assistant Professor

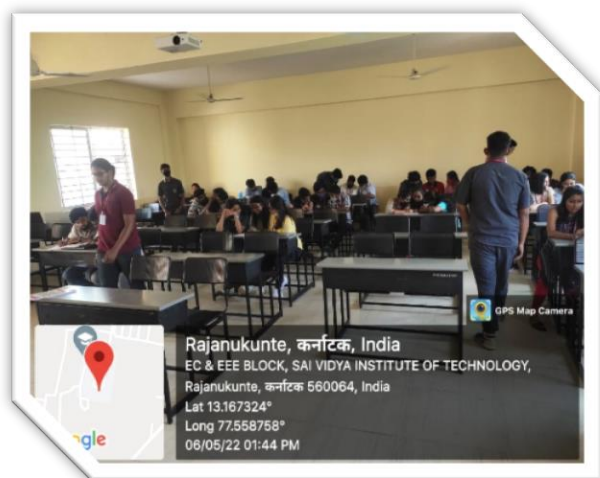
Ms. T M Divya, Assistant Professor

Ms. Pavithra B G, Assistant Professor

Ms. Tejashree S, Assistant Professor

Forum activities:

Code and Conquer



Department of Electronics and Communication organized “Code & Conquer”, a forum activity on 7th of May 2022.

This event was targeted to 6th semester students. The event was conducted in 2 rounds. The participants were challenged with real time coding problems and they were given the flexibility to code in their language of preference.

The Top 3 teams were awarded with Certificates



The Tech Gene forum of ECE department organized the “Circuit Master” forum activity on May 30th 2022 at 02:30pm in offline mode. The activity was technical based and was a group event.

The first round comprised of 15 technical questions. Each question carried 1 point and the team with highest score were qualified to round two. The Second round comprised of two circuit design problem statement. The participants had the flexibility to design any one of the two within a period of 30 minutes. The winning teams were awarded with Certificates and a token of appreciation.

MOUs



Sai Vidya Institute of Technology has signed an MoU with RADDEF TECHNOLOGIES for setting up the Centre of Excellence (CoE) / R&D Lab in SVIT.

"RADDEF is a Radio Defence Aerospace company. Established on 1st September 2017, they build the connectivity with outer world and outer space. The team offers an innovative and creative RF - Microwave Technologies, Digital solutions that can help in solving challenging problems in a rasping environment across Commercial, Military, Air force, Defence and Navy".

PROJECT EXHIBITION



The Department of Electronics & Communication Engineering organized Project exhibition on June 30th 2022. The main objective of this Project exhibition was to provide a platform to the final year students to exhibit their innovative projects and demonstrate their learning experience. There were 32 projects from various domains like Embedded systems, IoT, Robotics, Machine learning etc.



Mr. Sripadaraja K, Managing Partner, Intellisense Software, Bangalore was the external expert to evaluate the projects during the exhibition.

He as an External Jury visited all the batches and evaluated them for awarding the First, Second and Third place winners based on several criteria. Also, various staff and students from all the departments visited the exhibition. Winners of project exhibition were awarded with cash prize and certificates.

Student Achievements

TOPPER'S LIST



Department of Electronics and Communication is proud to announce the toppers of 3rd, 5th and 7th semesters in the VTU annual examination. We acknowledge and appreciate your sincere efforts.

GATE SCORE



Department of Electronics and Communication congratulates Mr. Shashank C of 6th semester for bagging the 5694 Rank in All India GATE Examination held in the month of February,2022.

INTERCOLLEGIATE PROJECT EXHIBITION



Four of our students, Marthala Ganga Bhavani, N. Mythreyi, K. Ravindra Reddy, M Rakesh have participated and presented their project titled” A Novel technique to detect the muscle disorder” under the guidance of Prof. Manjunathachari S, during I2 CONeCCT 2022,an intercollegiate PROJECT

EXHIBITION and COMPETITION , held at NIT Surathkal , Karnataka, on June 18th, 2022.

ENGINEERING STUDENTS PROJECT EXHIBITION



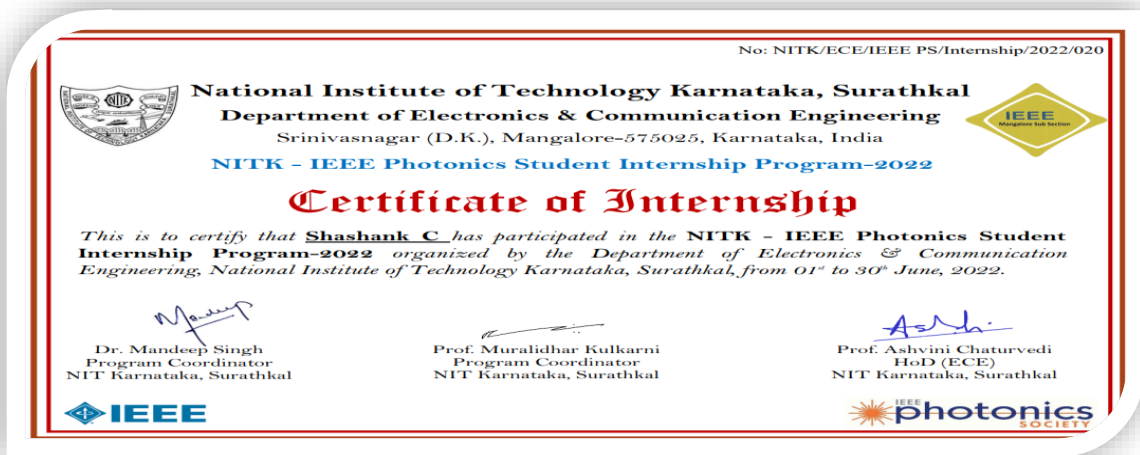
- Hearty Congratulations to the winners of State Level Engineering Students Project Exhibition Competition “ **Srishti** “ 2022 held at BMS College of Engineering on 25th to 27th July, 2022.



- Raghunandan S, Dhanush R V, Mayur Reddy V, and Kushal K V, 8th semester ECE students of SVIT, are runners up 🏆 of SYMBIOT: The National Level Build Challenge with 40 teams conducted on the 10th and 11th of June 2022 at Vidya Vardhaka College of Engineering, Mysore.

They won a cash prize of Rs. 15000

IEEE INTERNSHIP



We are proud to announce that Mr. Shashank C of 6th semester has successfully completed NITK- IEEE Photonic Society Internship program. He has also received a stipend amount as a token of appreciation.

INTERNATIONAL HACKATHON



Students of Electronics & Communication Engineering department of Sai Vidya Institute of Technology secured second and third position in International Hackathon 2022, conducted by CGN University, Wyoming, USA.

Best Outgoing Student- 2022



Mr. CS Likith of 8th semester was awarded the “**Best Outgoing Student**” of ECE department and College.

Student Feedback

SVIT has provided me a wonderful opportunity to upskill myself through education, forming great relationships and experience with the real world. These 4 years of engineering was completely amazing and I love the family like exposure that surrounds me here. I spent good time volunteering for various IEEE events, Sanchalana and the Tech-Vidya event. Loads of respect to my HOD and other faculty members who have constantly supported me in every aspect throughout my UG degree in gaining sufficient technical knowledge required for the professional life. I have built good rapport with my friends and faculties. Hence, I am leaving college with a lot of sweet memories that will last forever. #Once an SVITian , always an SVITian. SVIT has played a vital role in shaping my personality and helping me be a better version of myself. The faculty is helpful; they support every step we take to advance our career. SVIT has one of the best teaching fraternities. They not only teach the subjects in-depth but also provide additional help whenever the students need even after college hours. The department of ECE has a very active IEEE section which helps you grow into a better professional. I have personally been a core part of the IEEE SVIT student branch, and this has helped me grow not just technically but also in improving my soft skills and professional network, which are essential in the real world. We get a lot of freedom to explore our interests, be it sports, arts, projects, research, etc. With freedom; comes immense responsibility, and hence SVIT moulds us into becoming better leaders and taking responsibility for our actions. I had a memorable time at this prestigious institution, and these are the memories I will cherish for the years to come.

Mr C S Likith

8th Sem, ECE

FACULTY PUBLICATIONS:

Sl. No	Name Of The Journal/Conference	Title	Year Of Publication	DOI	National/ International
Dr. Narayan K					
1	Wireless Personal Communications	Analysis of ARROW Waveguide Based Microcantilever for Sensing Application	2022	https://doi.org/10.1007/s11277-022-09872-y	International
Dr. Y Jayasimha					
2	3rd International Conference for Emerging Technology (INCET)	Face Detection and its Features Extraction using Convolution Neural Network Model	2022	10.1109/INCET54531.2022.9825223	International
Prof. Vikramathithan A C					
3	Journal of Physics: Conference Series	Analysis of Total Harmonic Distortion and implementation of Inverter Fault Diagnosis using Artificial Neural Network	2022	https://doi.org/10.1088/1742-6596/2161/1/012060	International
4	Journal of Physics: Conference Series	Identification of Diabetic Retinopathy (DR) using Image Processing	2022	https://doi.org/10.1088/1742-6596/2161/1/012051	International
Dr. Venkatesha M					
5	3rd International Conference for Emerging Technology (INCET)	Face Detection and its Features Extraction using Convolution Neural Network Model	2022	10.1109/INCET54531.2022.9825223	International
6	3rd International Conference for Emerging Technology (INCET)	Adaptive F-SCA Method for Video Super Resolution	2022	10.1109/INCET54531.2022.9824350.	International
Dr. Chaya B M					
6	5th IEEE International Conference on Emerging Electronics (ICEE), IIT Delhi	Effect of Nanocone Antireflective Coatings on Organic Light Emitting Diode to enhance light extraction efficiency	2022	10.1109/ICEE50728.2020.9777046	International

Dr. Asha K					
7	Wireless Personal Communications	Analysis of ARROW Waveguide Based Microcantilever for Sensing Application	2022	https://doi.org/10.1007/s11277-022-09872-y	International
Mr.Suryanarayana N K					
8	Wireless Personal Communications	Analysis of ARROW Waveguide Based Microcantilever for Sensing Application	2022	https://doi.org/10.1007/s11277-022-09872-y	International

Faculty Certifications

Dr. Narayan K, Dean R& D and Professor has successfully completed the course on “Executive Development Programme in Digital Marketing & Analytics” Conducted in Association With IIM Kashipur, during 09-01-2022 and 03-07-2022



Graduation Day-2022



Graduation Day Photos of ECE A and ECE B section 2018-2022 Batch