

TECH TARANGA

A Department Newsletter from
Electronics and Communication Engineering

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HOD's MESSAGE



Greetings to all the readers of



We are delighted to invite you all to explore this issue of the Electronics and Communication Engineering Department Newsletter. The launch of “*TechTaranga*”, our bi-annual publication, fills us with excitement as it continues to serve as a platform for sharing the department’s achievements and activities.

“*TechTaranga*” has always been our bridge of communication with alumni, faculty, students, and industry partners. This edition provides insights into various departmental milestones, including placements, alumni engagements, institutional club activities, and the accomplishments of both students and faculty.

As we strive for excellence, we look forward to more innovations and achievements that will further elevate our department. We extend our heartfelt gratitude to our dedicated faculty, support staff, and enthusiastic students for their unwavering contributions and support.

Mr. Arun Upadhyaya

ABOUT DEPARTMENT

Electronics today stands at the forefront of the rapidly expanding horizon of Science and Technology. The Department of Electronics and Communication Engineering in SMVITM was established in the year 2010, initially offering an undergraduate program with an intake of 60 students per year. The intake was increased to 120 in the academic year 2012-13. The department has well-qualified faculty members – highly motivated in teaching and guiding the students in exploring newer avenues of electronics and communication.



The department is intent on creative and technologically advanced skill transfer to the students through teaching, mentoring and counseling. It regularly organizes seminars, symposiums, workshops and invited talks by eminent faculty from reputed institutions and industry experts, to keep the students abreast of the latest technological developments in related fields. The services of some academicians of high repute have been utilized by the department with the objective of supplementing teaching, mentoring and guiding the students as well as faculty members.

The department has its own library comprising of over 200 text books and technical magazines for quick reference. To nurture creative ideas and provide hands-on training to the students, the department has set up an Innovation/Project laboratory with state-of-the-art equipment and latest versions of software tools, in addition to the regular laboratories.

OUR VISION

“To be recognized as a center of eminence in the field of Electronics and Communication Engineering focusing on holistic engineering education and current technologies”.

OUR MISSION

- Impart quality engineering education with ethics to students and transform them into leaders in technology, innovation and research.
- Provide a platform and academic atmosphere that will ensure the transfer of knowledge and skills to the students.
- Promote the overall personality development of the students through activities that have high credibility and societal impact.

PROGRAM EDUCATIONAL OBJECTIVES

The graduate of Electronics & Communication Engineering should be able to:

- Exhibit essential knowledge of applied sciences, mathematical modelling, logical interpretation and virtual realization to resolve real-time problems in the field of Electronics and Communication Engineering.
- Work productively as an Electronics and Communication Engineer, including supportive and leadership roles on multidisciplinary teams.
- Inculcate effective communication skills to excel in professional growth.
- Take part in lifelong learning in pace with the advancing technological society.

PROGRAM SPECIFIC OUTCOMES

Graduates of Electronics & Communication Engineering will be able to:

- Focus on developing and exposure to alternative/ advanced technologies: Understand the concepts of Electronics & Communication Engineering and its application in the fields of signal processing, control systems, embedded systems, VLSI design, networking, and communication.
- Extension of knowledge and testing facilities for the society: Apply domain-specific knowledge to design, analyse, synthesise and validate real-time problems in Electronics & Communication Engineering.

PROGRAM OUTCOMES

Graduates of the Electronics and Communication Engineering program are able to:

PO-1	Engineering Knowledge	Develop skills to solve engineering problems by using mathematical, scientific and engineering knowledge.
PO-2	Problem Analysis	Recognize, define, conduct literature survey, examine complex engineering problems and draw conclusions using the principles of mathematics, science and engineering
PO-3	Design/Development of Solutions:	Express ideas, devise implementation strategies, plan execution and synthesize solutions, which are favorable for aspects of public health and safety as well as for cultural, societal and environmental conditions
PO-4	Conduct investigations of complex problems	Investigate complex problems by conducting experiments and validate the results
PO-5	Modern Tool Usage	Employ necessary techniques using modern hardware and software tools for engineering applications
PO-6	The Engineer and Society	Reckon and address the societal, health, safety, legal and cultural issues and adopt responsibilities adhering to professional engineering practice.
PO-7	Environment and Sustainability	Estimate and attend to environmental safety issues by means of engineering practice.
PO-8	Ethics	Understand and apply professional ethics for issues relevant to the engineering practices
PO-9	Individual and Team Work	Work as a member of a multidisciplinary project or research teams and have an understanding of leadership in teams and organizations.
PO-10	Communication	Produce engineering reports and express the ideologies effectively.
PO-11	Project Management and Finance	Apply managerial skill in handling projects as a member and leader of a multi-discipline team
PO-12	Life-long Learning	Evolve through lifelong learning process to keep one updated in technological changes.

CONTENTS

Sl. No.		Page Nos.
DEPARTMENT ACTIVITIES		
1.	Five Day's FDP on "Mastering Python: Emerging Trends and Innovations"	1
2.	Exploring Innovation: Industry Visit to GTTC, Udupi	1
3.	Workshop on "Introduction to 3D Printing Technology"	1
4.	Workshop on "Bots on Track"	2
5.	Alumni talk on "Missing Link in Student life"	2
6.	Electro Quest: Igniting Knowledge and Team Spirit	2
7.	Alumni talk on "Campus to Coding"	3
8.	Workshop on "Arduino Made Easy - Design, Simulate & Test using TinkerCAD"	3
9.	Invited Talk on "India's Semiconductor Leap: Opportunities, Ecosystem, and Careers for the Next Generation"	3
10.	AlumnNexus: Mentoring the NeX-GeN	3
11.	Hands-on session on "TechTune: Repair, Maintain & Troubleshoot"	4
12.	Industry Visit to NITK, Surathkal	4
13.	Tech Talk 3.0	4
14.	Workshop on "Build, Sense, Analyze- IoT and Data Science in action"	5
15.	Career Craft: Mastering Resumes, Interviews and Communication	5
16.	Campus to Career: Insights from Placed Students	6
17.	Invited Talk on "IC Design Cycle and Career Opportunities"	6
STUDENT OUTREACH ACTIVITIES		
18.	ECE Students Inspire Young Innovators at Atal Tinkering Lab	6
19.	ECE Students Conduct ATL Connect & Canva Basics Session	7
20.	ECE Students Conduct IoT Workshop at Volakadu	7
21.	ECE Students Conduct Arduino-based IoT Applications workshop	7
ACCOMPLISHMENTS		
22.	Journal /Book Chapter Publications	8
23.	Conference Publications	8
24.	Faculty Development Program/ Workshops	9
25.	Students Topper List	11
26.	Achievements & Recognitions	12
NEW PARTNERSHIPS & COLLABORATIONS		
27.	MoU with Mirafra Technologies, Bengaluru	17
28.	MoU with GT&TC, Udupi	17
PHOTOS		
29.	Outgoing Batch And Placed Stars 2024-25	18

DEPARTMENT ACTIVITIES

1. Five Day's FDP on “Mastering Python: Emerging Trends and Innovations”

The Department of Electronics and Communication Engineering, SMVITM, organized a five-day Faculty Development Program (FDP) on “Python Programming and its Applications” from February 3 to 7, 2025. The inaugural ceremony, held on February 3, was graced by Mr. G.K. Bhat, Kakunje Software, Mangaluru; Shri Ratnakumar, Secretary, SSVMET; Dr. Thirumaleshwara Bhat, Principal, SMVITM; Mr. Arun Upadhyaya, In-charge HoD; and Dr. Shilpa Kamath, Associate Professor, ECE. The event began with an invocation by Mr. Sachin Prabhu K and a welcome address by Mr. Arun Upadhyaya, followed by the traditional lamp-lighting ceremony.

The FDP aimed to upskill faculty members in Python programming with practical applications in data analysis, machine learning, and AI. The sessions were conducted by Mr. G.K. Bhat and his team. The FDP provided hands-on experience, enabling participants to confidently integrate Python into their teaching and research.



2. Exploring Innovation: Industry Visit to GTTC, Udupi

The Department of Electronics and Communication Engineering, in association with the Institution's Innovation Council (IIC) and Entrepreneurship Development Cell (EDC) of SMVITM, Bantakal, organized an industrial field visit to the Government Tool Room & Training Centre (GTTC), Udupi on 27th February 2025.

GTTC, Udupi, is a premier training institute offering advanced hands-on experience in tool manufacturing,

industrial automation, and engineering processes. Students explored state-of-the-art facilities including electronic, mechanical, and automation labs, gaining valuable insights into modern industrial practices. The visit aimed to provide students with practical exposure to cutting-edge technologies in electronics, automation, and industrial manufacturing. It was designed to bridge the gap between classroom learning and real-world engineering applications.



3. Workshop on “Introduction to 3D Printing Technology”

The Department of Electronics and Communication Engineering, in association with the Technocrats Cell, organized a one-day workshop on “Introduction to 3D Printing Technology” on 17th February 2025 at SMVITM, Bantakal, in collaboration with E-Actuell. The session was led by Mr. Manish, R&D Engineer at E-Actuell, who introduced participants to the fundamentals of 3D printing, types, applications, printer architecture, and components. Hands-on activities included printing sample objects, troubleshooting hardware, using slicing software, and understanding the process of building a 3D printer from scratch.





The event was coordinated by Ms. Pavithra, Assistant Professor (Sr.), under the guidance of Mr. Arun Upadhyaya, HoD, ECE. Poornitha Kunder served as the MC, supported by student volunteers Sujal, Pratham, Pavan, Kaushik, and Poornitha. The event concluded with a vote of thanks and a memento presentation by Dr. Shilpa Kamath.

4. Workshop on “Bots on Track”

The Department of Electronics and Communication Engineering, in association with the Technocrats Club, organized a one-day hands-on workshop titled “Bots on Track” on 7 March 2025 at SMVITM, Bantakal.



The workshop was conducted by enthusiastic second-year ECE students—Mr. Pavan, Mr. Raveesha, and Mr. Kaushik—under the guidance of Mr. Arun Upadhyaya (HOD, ECE) and Ms. Pavithra (Assistant Professor Sr. & Technocrats Club Coordinator).



Participants were introduced to bot fundamentals, Line Follower Robotics, and Robo Soccer concepts. Sessions included practical insights into hardware components, autonomous robot programming, and a live drone demonstration, sparking curiosity about RC systems and robotic innovations. The event was anchored by Mr. Sujal and Ms. Poornitha, who also delivered the vote of thanks. The workshop was well-coordinated by the Technocrats Club, ensuring its smooth and successful execution.

5. Alumni talk on “Missing Link in Student life”

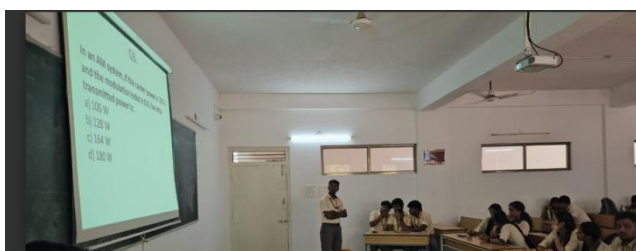
The Department of Electronics and Communication Engineering, in association with the Alumni Cell, organized an alumni talk on “Missing Link in Student Life” for third-year students on 12 March 2025. The session was delivered by Mr. Ganesh U G, Assistant Professor, ECE, SMVITM.



Mr. Ganesh emphasized the importance of setting career goals, strengthening both soft and technical skills, and actively participating in placement training. He encouraged students to learn programming languages like Verilog, use Xilinx software, and seek guidance from seniors for interview preparation. The event was coordinated by Ms. Lahari Vaidya and Ms. Vimitha A. Mr. Arun Upadhyaya, HoD (In-charge), presented a memento to the speaker.

6. Electro Quest: Igniting Knowledge and Team Spirit

The Department of Electronics and Communication Engineering, in association with the Co-Curricular Club, organized Electro Quest, a quiz competition on 26 March 2025. The event was coordinated by Mr. Sandeepa Prabhu, with support from student coordinators Athul Bhat and Adithya Das, under the guidance of Mr. Arun Upadhyaya, HoD, ECE. A total of 22 teams participated, with 5 teams qualifying for the final rounds. The competition included Prelims, General, Buzzer, and Rapid Fire rounds. The event saw enthusiastic participation and encouraged technical learning and teamwork.



7. Alumni talk on “Campus to Coding”

The Department of Electronics and Communication Engineering, in association with the Alumni Cell, organized an alumni talk on “Campus to Coding” for third-year students on 29 March 2025. The session was delivered by Ms. Ashwini Shet, Cloud Specialist at Niveus Solutions.



Ms. Ashwini shared her journey from college to the corporate world, highlighting the importance of maintaining a strong CGPA, building core technical and aptitude skills, and preparing early for placements. She emphasized learning from every interview experience and encouraged students to stay resilient and adaptable in their careers. The session was anchored by Annapurna Shenoy (3rd year ECE) and coordinated by Ms. Lahari Vaidya and Ms. Vimitha A. Mr. Arun Upadhyaya, HoD (In-charge), felicitated the speaker with a memento.

8. Workshop on “Arduino Made Easy - Design, Simulate & Test using TinkerCAD”

The ECE Department, in association with the Department of Basic Science and the Technocrats Club, conducted a hands-on workshop on “Arduino Made Easy – Design, Simulate & Test using TinkerCAD” on 9 April 2025 at SMVITM.

The session was led by 6th-semester students Athula Bhat, Aditya Das, and Balrama Bharadwaja, with guidance from Mr. Arun Upadhyaya, Dr. Deepika B V, and Ms. Pavithra. Participants explored Arduino basics, simulated circuits using TinkerCAD, and gained practical skills in embedded system design.

The workshop was interactive, informative, and well appreciated by attendees.



9. Invited Talk on “India’s Semiconductor Leap: Opportunities, Ecosystem, and Careers for the Next Generation”

The ECE Department, in association with the ISTE Student Chapter and Placement Cell, organized an invited talk on 12 April 2025 for pre-final year students. Dr. Ashwath Rao, Senior Analyst at Counterpoint Research, shared insights on VLSI tools, fabrication processes, and emerging technologies like FinFET and GFET.



He highlighted India's growing semiconductor industry, including Micron’s facility in Gujarat, and advised students on preparing for core placements. The session was well-received and informative. The event was anchored by Ms. Annapurna Shenoy and coordinated by Ms. Chandana, Ms. Yogeshwary B H, and the ECE team.

10. AlumnNexus: Mentoring the NeX-Gen

The Department of Electronics and Communication Engineering, in association with the Institution’s

Alumni Cell, inaugurated its Mentorship Program on 13 April 2025 through an online event aimed at strengthening alumni-student connections.



Mr. Arun Upadhyaya, In-charge HoD, ECE, delivered the inaugural address, followed by remarks from Principal Dr. Thirumaleshwara Bhat and CEO Dr. Radhakrishna S Aithal, who appreciated the initiative and its relevance to student growth. Alumni mentors Mr. Radheya Melant, Mr. Puneeth, Ms. Sameeksha P U, and Ms. Sukhitha Aithal shared their experiences and expressed enthusiasm for guiding students. The event was anchored by Ms. Lahari Vaidhya and concluded with a vote of thanks by Ms. Vimitha. The program marks a significant step in fostering professional mentorship for ECE students.

11. Hands-on session on "TechTune: Repair, Maintain & Troubleshoot"

The ECE Department, in collaboration with the ISTE Student Chapter, organized a hands-on session for second-year students on 16 April 2025 in the Communication Lab. Mr. Madhusudhan Thanthy P.N, Foreman, ECE Department, served as the resource person.



Mr. Arun Upadhyaya, In-charge HoD, inaugurated the session and emphasized the importance of practical skills. Students engaged in activities such as soldering, wiring, relay circuit assembly, and exploring the functioning of household appliances.



The session concluded with a note of encouragement from Mr. Upadhyaya and a token of appreciation to the resource person. The event was coordinated by Ms. Chandana, ISTE Department Coordinator.

12. Industry Visit to NITK, Surathkal

The ECE Department of SMVITM, in collaboration with the Institution's Innovation Council (IIC) and Entrepreneurship Development Cell (EDC), organized a field visit to the Centre for System Design (CSD) and Siemens Center of Excellence (COE) at NITK, Surathkal on 22 April 2025.



The visit aimed to expose students to advanced technologies in system design, automation, and innovation. Students explored labs related to virtual reality, EV systems, 3D printing, drones, factory automation, and mechatronics. The visit provided valuable insights into the industrial and research applications of electronics, promoting innovation and entrepreneurial thinking.

13. Tech Talk 3.0

The Department of ECE at SMVITM, in association with the TechnoCrators Club, organized the Tech Talk event on 23 April 2025. The event provided a platform for students to present on trending tech

topics such as Edge AI, Quantum Computing, VLSI Design, and more.



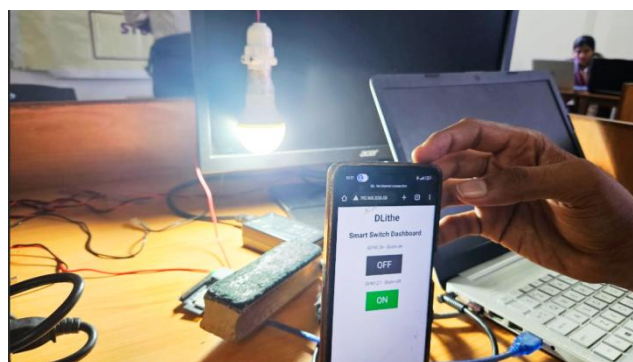
Thirteen students participated, each delivering 10-minute presentations. The session was judged by Mr. Rajesh Nayak and Ms. Sowmya Bhat and coordinated by faculty members Ms. Chandana and Ms. Pavitra Poornima S., along with student coordinators from the 6th semester. Rohit (6th Sem, Mechanical) won first place, and Gowri P Shetty (6th Sem, ECE) secured second. The event concluded with Mr. Arun Upadhyaya, In-charge HoD, and presenting appreciation letters to the judges.

14. Workshop on “Build, Sense, Analyze- IoT and Data Science in action”

The ECE Department, in collaboration with the ISTE Student Chapter, organized a three-day hands-on workshop on IoT from 28 to 30 April 2025 in the IoT lab. Mr. Vijay G.H from DLithe Consulting Services, Bengaluru, served as the resource person.

The workshop introduced students to IoT fundamentals and practical applications using the IO Cube Devkit with ESP32. Participants coded to control LEDs, buzzers, and used DLithe servers for remote access and IP-based message displays.

Mr. Arun Upadhyaya, In-charge HoD, inaugurated and concluded the session with a motivational address and presented a token of appreciation to the resource person. The event was anchored by Annapoorna Shenoy (6th Sem) and coordinated by Ms. Chandana and Mr. Sandeepa Prabhu.



15. Career Craft: Mastering Resumes, Interviews and Communication

The Department of Electronics and Communication Engineering, in association with the Placement Cell, organized a session titled “Career Craft: Mastering Resumes, Interviews, and Communication” for third-year students on 7th May 2025. The session was delivered by Mr. Chandan Rao, Freelance Admission Consultant and Soft Skill Trainer.



Mr. Rao shared practical insights on resume building, personal presentation, and interview preparation through interactive activities and real-life examples. The session helped students gain clarity and confidence in approaching career opportunities. The event was coordinated by Ms. Yogeshwari B H and Ms. Vimitha A. Mr. Arun Upadhyaya, In-charge HoD, felicitated the speaker with a letter of appreciation.

16. Campus to Career: Insights from Placed Students

The Department of Electronics and Communication Engineering, in association with the ISTE Student Chapter, organized a placement guidance session on 9th May 2025 at 12:00 PM in the Admin Block Seminar Hall for pre-final year students.



Ms. Ananya K and Ms. Akshata Muralidhar Bailoor, final-year ECE students currently interning at Kambala Solutions Pvt. Ltd., Mangalore, shared valuable insights from their placement journeys. They detailed interview rounds at core companies like Mirafra, Karmic, and Cadence, while offering tips on preparation, resume building, and handling interviews confidently. The event featured an interactive Q&A and was coordinated by Ms. Yogeshwary B H and Ms. Vimitha A, with support from Ms. Chandana (ISTE Coordinator). Ms. Annapurna Shenoy served as the MC, and Mr. Arun Upadhyaya, HoD, ECE, extended his support throughout the session.

17. Invited Talk on “IC Design Cycle and Career Opportunities”

The Department of Electronics and Communication Engineering, in association with the ISTE Student Chapter and Placement Cell, organized an insightful talk for third-year ECE students on 21st May 2025 in the Admin Block Seminar Hall.



Mr. Vinod John from Mirafra Technologies served as the resource person. He provided a comprehensive overview of the semiconductor industry, covering

market trends, PCB evolution, and the IC design flow. He further elaborated on IC fabrication, packaging, and testing, while offering guidance on the essential skills needed to build a career in IC design. The session also included real-world insights from Mirafra's hardware team, giving students a clear picture of career opportunities in the domain.

The event concluded with Mr. Arun Upadhyaya, HoD, ECE, presenting a token of appreciation to the speaker and emphasizing the importance of continued skill development. Ms. Annapoorna Shenoy, 6th Sem ECE, hosted the session. Coordination was efficiently handled by Ms. Chandana, ISTE Coordinator, and Mrs. Yogeshwari B H, Placement Coordinator.



STUDENT OUTREACH ACTIVITIES

18. SMVITM ECE Students Inspire Young Innovators at Atal Tinkering Lab

As part of the community outreach initiative, students of SMVITM, Bantakal, conducted a hands-on session on *IoT Applications* at the Atal Tinkering Lab, Karnataka Public School, Hiriadka, on 26 July 2025. The program aimed to ignite interest in innovation, STEM education, and creative problem-solving among Class VIII students. Participants explored basics of electronics, sensor-based systems, Arduino programming, LED control, and simple automation using sensors. Demonstrations through Tinker CAD simulators, block programming, and creative thinking activities made learning interactive and engaging. The session was delivered in a simplified and bilingual manner to ensure clarity for rural students. Volunteers from SMVITM included Annapurna



Shenoy, Poornitha, Divyanth, Sharanya, Chandan, and Kartik from ECE students who actively contributed to mentoring and demonstrations. The event received appreciation from the school's Head Master, Mr. Prakash Prabhu, and ATL coordinator Ms. Poonima for bridging the gap between technology and school-level learning.



19. SMVITM ECE Students Conduct ATL Connect & Canva Basics Session

On 15 July 2025, SMVITM student volunteers conducted an *ATL Connect Program* and *Canva Basics* session at Sri Ananteshwara English Medium School, Udupi, to promote innovation and digital literacy among over 50 students of Classes 9 and 10. The ATL segment introduced Atal Tinkering Labs, Arduino Uno, sensors, and Tinkercad simulations, while the Canva Basics session taught poster and presentation design. Volunteers included Athula Bhat, Aditya, Balaram Bharadwaj, Rakhi, Alaka, and Rajani from ECE. The program was appreciated for fostering creativity, problem-solving, and hands-on skills.



20. SMVITM ECE Students Conduct IoT Workshop at Volakadu

On 12 July 2025, six students from SMVITM conducted a workshop on *IoT Applications* at Government Composite High School, Volakadu, Udupi, aimed at fostering innovation, creativity, and scientific thinking among students. The session covered Arduino programming, integration of LEDs, buzzers, and sensors, live project demonstrations, and virtual circuit design using Tinkercad for better understanding and debugging. Volunteers included from ECE. The event received strong appreciation from the Headmaster and staff for effectively bridging classroom learning with practical technology applications.



21. SMVITM ECE Students Conduct Arduino-based IoT Applications workshop

On 8 April 2025, seven students from Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM) conducted an Arduino-based IoT Applications workshop at Saraswathi Vidyalaya English Medium School, Gangolli, under the Atal Tinkering Lab initiative. The session introduced robotics, electronics, and programming through Arduino kits, sensors, and Tinkercad simulations. Students worked in groups on projects like LED blink, obstacle-avoiding robots, and basic home automation, guided by mentors in circuit building, coding, and troubleshooting. Volunteers included Adithya, Athul, Balaram, Alaka, Rakhi (event leads), and Sharanya and Rajani (assistants). The workshop was well-received, fostering hands-on learning and technological curiosity among school students.



ACCOMPLISHMENTS

22. Faculty Journal /Book Chapter Publications

Sl. No.	Name of Authors	Title of paper	Name of Journal/Book Chapter(DOI)
1.	Mr. Ganesh Shetty	Waterwheel Archimedes Optimization and Resilient Consensus BiLSTM for Efficient Data Aggregation to Detect and Discard Malicious Nodes and Packets in IoT-Based Healthcare Applications	SN Computer Science
2.	Mr. Ganesh Shetty	Effectual Energy Optimization, Fault-Tolerant Attack Detection, and Data Aggregation in Healthcare IoT Using Enhanced Waterwheel Archimedes and Deep Siamese Maxout Forward Harmonic Networks	JRC
3.	Mr. Ganesh Shetty	"Microplastic Menace: Ecological Ramifications and Solutions for a Sustainable Future." Global Impacts of Micro-and Nano-Plastic Pollution.	DOI: 10.4018/979-8-3693-3447-8.ch012
4.	Mr. Ganesh Shetty	"Blockchain-Enhanced GAN Image Encryption Scheme for Cloud Computing." Intelligent Systems and IoT Applications in Clinical Health.	DOI: 10.4018/979-8-3693-8990-4.ch016

23. Faculty Conference Publications

Sl. No.	Name of Authors	Title of paper	Name of conference
1.	Chetan R	Smart NFT based Hydroponic System for Precision Agriculture using IoT and AI	AMATHE 2025
2.	Chetan R, Chandana	Innovative Cold Chain Management: Portable Modules for Vaccine and Medical Fluid Storage	WCMRP-2025
3.	Jayashree M, Shashikala R, Sandeepa Prabhu	Affordable Smart Robotic Wheelchair with Voice and Joystick Control for Enhanced Mobility	WCMRP-2025
4.	Ajesh, Sachin Prabhu, Ganesh U G	Design and Implementation of a Controller-Based Automatic Cooking Machine for Time-Efficient and Quality Food Preparation	WCMRP-2025
5.	Arun Upadhyaya, Ganesh Shetty, Nagaraja Rao	A Hybrid Chaos and Residue Number System (RNS) Approach for Enhanced Security in Cryptographic System	WCMRP-2025
6.	Ravindra H J, Pavithra Poornima S	Synthesis and characterization of Donor substituted dibenzylideneacetone (DBA) as a sensitizer in dye-sensitized solar cells application	WCMRP-2025
7.	Nagaraja Rao, Arun Upadhyaya, Pavithra Poornima S	Modelling and Performance Analysis of a BLDC Motor using Sliding Mode Control and PID Controller	WCMRP-2025
8.	Sowmya Bhat	Design of Low Power and Area Efficient CMOS Full Adder	WCMRP-2025
9.	Sandeepa prabhu, Ragunath	Agro Soil analyzer	WCMRP-2025

10.	Yogeshwary B H, Prajwal A Naik, Sahaj Shetty, Shashank Y S	Automated Dichotic Word Test Using Indian English	WCMRP-2025
11.	Anwith Shetty, Yasha P Shetty, Srasht Shetty, Thavi K, Nagaraja Rao	Digital Assistance For Stock Price Prediction	ICAIMLET-25

24. Faculty Development Program & Workshops

SI.No.	Name of Faculty	Title of the FDP or Workshop	Venue/College Name
1.	Yogeshwary B H	Mastering Python: Emerging Trends and Innovations	SMVITM
2.	Yogeshwary B H	Innovation Ambassador training Foundation Level	MoE's Innovation Cell & AICTE
3.	Yogeshwary B H	Innovation Ambassador training Advanced Level	MoE's Innovation Cell & AICTE
4.	Arun Upadhyaya	Mastering Python: Emerging Trends and Innovations	SMVITM
5.	Ajesh	Mastering Python: Emerging Trends and Innovations	SMVITM
6.	Chetan R	Mastering Python: Emerging Trends and Innovations	SMVITM
7.	Chetan R	Innovation Ambassador training Foundation Level	MoE's Innovation Cell & AICTE
8.	Chetan R	Innovation Ambassador training Advanced Level	MoE's Innovation Cell & AICTE
9.	Sowmya Bhat	Mastering Python: Emerging Trends and Innovations	SMVITM
10.	Jayashree M	Mastering Python: Emerging Trends and Innovations	SMVITM
11.	Jayashree M	Innovation Ambassador training Advanced Level	MoE's Innovation Cell & AICTE
12.	Chandana	Mastering Python: Emerging Trends and Innovations	SMVITM
13.	Shilpa Kamath S.	Mastering Python: Emerging Trends and Innovations	SMVITM
14.	Sachin Prabhu K.	Mastering Python: Emerging Trends and Innovations	SMVITM
15.	Pavithra Poornima S	Mastering Python: Emerging trends and Innovations	SMVITM

16.	Vimitha A	Mastering Python: Emerging Trends and Innovations	SMVITM
17.	Sandeepa prabhu	Mastering Python: Emerging Trends and Innovations	SMVITM
18.	Lahari Vaidya	Mastering Python: Emerging Trends and Innovations	SMVITM
19.	Chetan R	Design and Development of IoT based application	MIT Manipal
20.	Sowmya Bhat	Deep Learning	NPTEL
21.	Sachin Prabhu K.	Transforming Safety Culture – Effective Behavior-Based Safety Strategies	KSIT, Bangalore
22.	Shashikala R	Mastering Python: Emerging Trends and Innovations	SMVITM
23.	Akshatha Rao L	Mastering Python: Emerging Trends and Innovations	SMVITM
24.	Akshatha Rao L	Innovation Ambassador training Foundation Level	MoE's Innovation Cell & AICTE
25.	Akshatha Rao L	Innovation Ambassador training Advanced Level	MoE's Innovation Cell & AICTE
26.	Pavithra Poornima S	Innovative Research for Future Semiconductors Devices: Trends, Challenges and Applications	Electronics & ICT academy(Hub), NIT warangal, NIT(Raipur)
27.	Pavithra Poornima S	Innovation Ambassador training Foundation Level	MoE's Innovation Cell & AICTE
28.	Pavithra Poornima S	Innovation Ambassador training Advanced Level	MoE's Innovation Cell & AICTE
29.	Shashikala R	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
30.	Lahari Vaidya	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
31.	Chetan R	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
32.	Sowmya Bhat	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM

33.	Yogeshwary B H	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
34.	Arun Upadhyaya	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
35.	Nagaraja Rao	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
36.	Ganesh U.G.	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
37.	Chandana	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
38.	Ajesh	Applied AI: MATLAB-Based Deep Learning with Hardware Integration	SMVITM
39.	Nagaraja Rao	Mastering Python: Emerging Trends and Innovations	SMVITM
40.	Nagaraja Rao	Future of AI in education: Enhancing teaching and learning	Sarada Gangadharan College, Puduchery
41.	Nagaraja Rao	Innovation Ambassador training Advanced Level-Reskill	MoE's Innovation Cell & AICTE

25. Students Topper List With SGPA

8TH Semester

Sl.No.	USN	Name	SGPA
1.	4MW21EC010	Ananya K	10.00
2.	4MW21EC019	Dhanush Kumar (Udaya Kumar)	10.00
3.	4MW21EC020	Disha	10.00
4.	4MW21EC045	Pratham D Poojary	10.00
5.	4MW21EC054	Samyuktha Shetty	10.00
6.	4MW21EC062	Shreevatsa	10.00
7.	4MW21EC009	Anagha Bhat S	10.00
8.	4MW21EC013	Chaitanya Anant Nilekani	10.00

6TH Semester

Sl.No.	USN	Name	SGPA
1.	4MW22EC068	Sathwik	9.28
2.	4MW21EC085	Gowry P Shetty	9.06
3.	4MW22EC111	Y Spoorthi Bhat	9.06
4.	4MW22EC091	Sowjanya	8.94

4TH Semester

Sl.No.	USN	Name	SGPA
1.	4MW23EC037	Meghana Rajiv	8.95
2.	4MW23EC038	Moolya Pratiksha Shekhar	8.90
3.	4MW23EC050	Preethi	8.85

ACHIEVEMENTS AND RECOGNITIONS

Dr. Shilpa Kamath

- Successfully completed the NPTEL certification course on “Yoga for Anger Management.”
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.
- Served as a resource person and delivered a session on ‘Python Essentials for Data Manipulation and Visualization’ at Dr. T. M. A. Pai Polytechnic on 24 March 2025.

Mr. Arun Upadhyaya

- Served as a Reviewer for the International Conference on Data Science and Intelligent Systems (ICDSIS-2025) organized by Malnad College of Engineering, Hassan, on 16–17 May 2025.
- Reviewed papers at the International Conference ICICKE-2025, organized by School of Engineering and Technology, CMR University Bengaluru on 6–7 June 2025.
- Successfully completed the NPTEL certification course on “Digital System Design.”
- Served as a Reviewer for the 3rd IEEE International Conference on Data Science and Network Security (ICDSNS-2025) held at Kalpataru Institute of Technology, Tiptur, on 25–26 July 2025.

Mr. Nagaraja Rao

- Served as a Scientific Committee Member at WCMRP-2025 held on 19–20 June 2025.
- Served as a Reviewer for the International Journal of Innovative Research in Engineering (IJIRE-2025) in March 2025.
- Served as a Reviewer for the 11th International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT-2025) organized by IEEE Bangalore Section at Sterling's Mac Hotel, Bangalore held from 10–13 July 2025.
- Successfully completed the NPTEL certification course on “Linear Dynamical Systems.”

Ms. Shashikala R

- Participated in IP Utsav-2025 Organized virtually by AICTE and MIC from 21st to 26th April 2025.
- Served as a resource person and conducted a workshop on ‘How to Plan for a Start-up: Legal and Ethical Steps – Turning Ideas into Impact’ at SIT, Mangalore, on 30 May 2025.

Mr. Chetan R

- Reviewed papers for AREEV-2025, the International Conference on Advances in Renewable Energy & Electric Vehicles, held at NMAMIT, Nitte.
- Served as a resource person and delivered an invited talk on ‘Lab to Land Projects’ at SUIET, Mukka, on 21 February 2025.

Ms. Sowmya Bhat

- Successfully completed the NPTEL certification course on “Deep Learning.”
- Participated in IP Utsav-2025 Organized virtually by AICTE and MIC from 21st to 26th April 2025.
- Served as reviewer for the 4th IEEE Technology and Engineering Management Society Conference: Asia-Pacific 2025.

- Received the Best Paper Award for their paper titled “Design of Low Power and Area Efficient CMOS Full Adder” at WCMRP-2025 held in Kuala Lumpur, Malaysia (Hybrid Mode) on 19–20 June 2025.

Mr. Ganesh S. Shetty

- Published patent on “Leafing Through Data: Building a Plant Species Identification Algorithm with Machine Learning”. Publication Date: 16/05/2025.
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.

Mr. Sachin Prabhu

- Successfully completed the NPTEL certification course on “Yoga for Anger Management.”
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.
- Served as a resource person and delivered a session on ‘Python Essentials for Data Manipulation and Visualization’ at Dr. T. M. A. Pai Polytechnic on 24 March 2025.

Mr. Raghunatha

- Reviewed papers at the International Conference ICDCECE-2025, organized by IEEE SB Ballari Institute of Technology and Management, Ballari, on April 25–26, 2025.
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.

Ms. Yogeshwary B.H

- Successfully completed the NPTEL certification course on “Outcome Based Pedagogic Principles for Effective Teaching.”
- Successfully completed the NPTEL certification course on “Wireless Ad Hoc Sensor Networks.”

Ms. Akshataha Rao

- Published patent on “A system and method for Eco-friendly Hybrid Treadmill Tricycle with Power Generation Capabilities”. Publication Date: 07/02/2025.
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.

Ms. Pavithra Poornima

- Successfully completed the NPTEL certification course on “Experimental Robotics.”

Ms. Vimitha A

- Successfully completed the NPTEL certification course on “Digital System Design.”
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.
- Successfully completed the NPTEL certification course on “Introduction to IoT.”

Ms. Chandana

- Reviewed papers for ICRAIS-2024, the International Conference on Recent Advances in Information Technology for Sustainable Development, held at MIT, Manipal, on November 6–7, 2024
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.

Ms. Jayashree M

- Reviewed papers for AREEV-2025, the International Conference on Advances in Renewable Energy & Electric Vehicles, held at NMAMIT, Nitte.
- Successfully completed the NPTEL certification course on “Embedded system Design.”
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.

Ms. Lahari Vaidya

- Successfully Completed Master of Arts in Psychology from IGNOU, Delhi University on June 2025.
- Successfully completed the NPTEL certification course on “Yoga and Positive Psychology for Managing Career and Life.”

Mr. Ajesh

- Reviewed papers at the International Conference IEEE SPACE 2025, organized by jointly organized by IEEE AESS BangaloreChapter, and IEEE AP/MTT Bangalore Joint Chapter on July 20-23,2025, at Bangalore.
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.
- Served as a resource person and delivered a session on ‘Career Guidance’ at Government Polytechnic, Kaup, on 12 March 2025.
- Presented his research work titled “Design and Implementation of a Controller-Based Automatic Cooking Machine for Time-Efficient and Quality Food Preparation” at WCMRP-2025 held from 19 to 20 June 2025, and received the Best Innovation Research Award.

Mr. Sandeepa Prabhu

- Successfully completed the NPTEL certification course on “Analog Circuits.”
- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.

Mr. Ganesh U.G.

- Participated in IP Utsav-2025 Organised virtually by AICTE and MIC from 21st to 26th April 2025.

Centre for Engineering Education Excellence

The Department of Electronics and Communication Engineering is proud to announce that Mr. Sandeepa Prabhu and Mr. Ganesh U. G, Assistant Professors, have been selected for the prestigious Centre for Engineering Education Excellence (CEEE) Program 2025 in the domain of Electrical, Electronics, and Instrumentation Engineering, organized by the Indian National Academy of Engineering (INAE) in association with the Infosys Foundation, the program will be held from 2nd to 13th June 2025 at IIT Bombay with the objective of enhancing the quality of engineering education through innovative teaching methodologies and advanced pedagogical practices.



Innovation Spotlight: Easy ICD-11 Mobile App

Mr. Vinayachandra, a final-year ECE student of SMVITM, has significantly contributed to the development of Easy ICD-11, a mobile application designed to simplify access to WHO's ICD-11 medical codes. Developed at Alar Innovations Pvt. Ltd. under the guidance of Dr. Sachin S. Bhat, he worked on both frontend and backend, creating a scalable and user-friendly tool for clinical and academic use. The app was officially launched by the management of SMVITM and SSVMET, marking a proud achievement for the institution and highlighting its commitment to innovation and industry-oriented learning.



IEEE STEM Champion Award

Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal, is proud to announce that Ms. Annapurna Shenoy, a third-year student of the Department of Electronics and Communication Engineering, has been honored with the prestigious global title of IEEE STEM Champion by the Institute of Electrical and Electronics Engineers (IEEE).



ISTE Best Student Chapter Award 2024-25

Mr. Dhanush Shastry, a final-year Electronics & Communication Engineering student of SMVITM, Bantakal, has been awarded the Karnataka State Level Best Student of the Chapter Award (2024–25) for his outstanding performance and active contribution to the ISTE Student Chapter. The award was presented during the inaugural ceremony of the 20th Karnataka State Level ISTE Student Convention held on 28 March 2025 at New Horizon College of Engineering, Bangalore.



Best Department Award 2024-25

The Department of Electronics & Communication Engineering at SMVITM has been crowned with the prestigious title of Best Department of the Year 2024–25. This remarkable honor reflects the unwavering commitment, innovation, and excellence demonstrated by our faculty, students, and staff. It stands as a proud milestone in the department's journey of academic brilliance and holistic growth, inspiring us to scale even greater heights in the years ahead.



NEW PARTNERSHIPS & COLLABORATIONS

MoU with Mirafra Technologies, Bengaluru

The Department of ECE, SMVITM, signed an MoU with Mirafra Technologies, a core ECE company specializing in semiconductor design and embedded software. The collaboration will provide students with campus placement opportunities, industry visits, and exposure to cutting-edge technologies. The agreement was formalized on May 21, 2025, in the presence of Mr. Vinod John, Vice President – Hardware Engineering, Mirafra Technologies, and institute dignitaries.



MoU with GT&TC, Udupi

The Department of Electronics and Communication Engineering, SMVITM, has signed a Memorandum of Understanding (MoU) with the Government Tool Room and Training Centre (GT&TC), Udupi, on 27 February 2025. This collaboration aims to strengthen industry-academia interaction, promote skill development, and provide students with hands-on training and exposure to advanced technologies. The MoU will facilitate workshops, internships, and joint initiatives that enhance practical knowledge and employability of students.



OUTGOING BATCH 2024-25

ECE BATCH 2024-25 (Section -A)



ECE BATCH 2024-25 (Section -B)



CONGRATULATIONS TO PLACED STARS OF 2024-25

SHRI MADHWA VADIRAJA INSTITUTE
OF TECHNOLOGY AND MANAGEMENT
(A Unit of Shri Sode Vadiraja Mutt Education Trust® Udupi.)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PLACED STARS OF 2025





Department of Electronics and Communication Engineering

Newsletter Editors:

Ms. Jayashree M, Asst. Professor

Mr. Adithya R Das, Student Coordinator

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