



Shri Govindram Seksaria Institute of
Technology & Science, Indore (M.P)



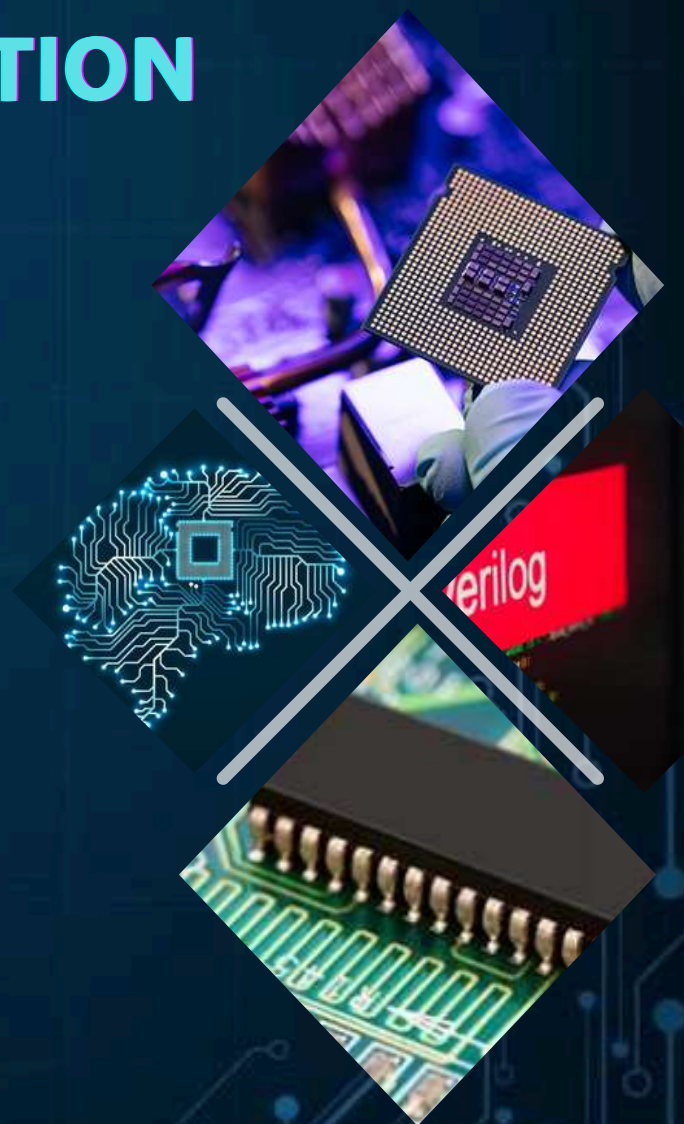
NEWS LETTER

DEPARTMENT OF
**ELECTRONICS AND
TELECOMMUNICATION
ENGINEERING**

(ESTD IN 1973)

**VOL 2
(JULY TO DEC)**

**2024
EDITION**



PRAKASHITAM



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Vision and Mission



Institute vision

A front-line institute in science and technology contributions making significant to human resource development envisaging the dynamic needs of society

Institute mission

To generate experts in science and technology akin to society for its accelerated socioeconomic growth in professional and challenging environments imparting human values

DEPARTMENT OF ELECTRONICS & TELECOM. ENGG.

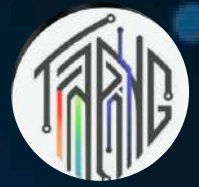
Department vision

To be a leading Electronics and Telecommunication engineering department providing education at the Graduate, Post-Graduate, and research levels fulfilling changing academic and industrial needs. To create human resources in the field of modern Electronics and Telecommunication Engineering.

Department mission

Our efforts are dedicated to educating students in the field of Electronics and Telecommunication Engineering to create competent professionals with high moral values, and social ethics and for pursuing higher education and research.

"Innovating today for a smarter tomorrow, we harness the power of technology to transform ideas into reality, empowering minds to engineer a world of endless possibilities."



New Director's First Visit to the ECE Department

The ECE Department had the privilege of welcoming the new Director of SGSITS, Dr. Neetesh Purohit, on his first visit on November 13, 2024. Dr. Purohit interacted with faculty and students, exploring ongoing projects and research endeavors. His vision and leadership energized the department, inspiring a renewed commitment to academic and technological excellence. We are excited to work under Dr. Purohit's guidance and look forward to scaling new heights in innovation and research.



"Prof. Anjana Jain welcoming Dr. Neetesh Purohit"

Message from Head of Department

Dear Students,

It is really a matter of pride that, like every year, students of the Department of Electronics and Telecommunication Engineering are willing to publish a newsletter through the Department Club of various activities. Indeed, it will provide the opportunity to our students to publish their outstanding achievements through this, which will motivate other coming students and help them to be recognized.



Dr. S. K. Jain

The department fosters diverse faculty and student activities (technical, cultural, social) throughout the year. Faculty members continually enhance their expertise through advanced qualifications, seminars, workshops, expert talks, and research publications. Students are also actively developing prototypes, writing and presenting research papers, and achieving national and international publications. I hope they continue this progress with strong moral and ethical values, fulfilling the department's vision and...

My best wishes to you all for your Endeavour.

With warm regards and greetings.

Dr. S. K. Jain

Professor and Head

Phone +91 731 25822500 (O)

satishjain.jain@gmail.com, skjain@sgsits.ac.in



Department Events



SGSITS Achieves NAAC 'A' Grade After Peer Review

Shri Govindram Seksaria Institute of Technology and Science (SGSITS) has successfully secured a NAAC 'A' grade following a two-day peer review visit on August 22-23, 2024. This marks the first-ever assessment by the NAAC team for the 72-year-old institute. The evaluation, based on the self-study report submitted in June, focused on SGSITS's strong research, infrastructure, student-teacher ratio, and innovation. Key highlights included the Miyawaki Forest, a plastic-free campus, and the unique engineering courses offered in Hindi. The NAAC A grade recognizes SGSITS's commitment to excellence in education, research, and institutional values, further establishing it as one of the leading engineering colleges in the region.



“NAAC committee visit in the department”



Department Events



Teachers' Day Celebration in E&TC Department

The Teachers' Day celebration in the E&TC department on 5th September 2024 was a memorable event organized by the students in collaboration with Club Tarang. A heartfelt thank you to all the incredible educators, including HOD Prof. Anjana Jain Ma'am, Dr. Shekhar Sharma Sir, and Dr. Prakash Vyavahare Sir, for their unwavering support and guidance. Their dedication to shaping our futures is truly inspiring. We also extend our gratitude to our juniors and seniors for their cooperation and efforts in making the celebration a success. Together, we've created lasting memories and celebrated the joy of learning with our wonderful teachers!



"Glimpses of teachers' day celebration"



Department Events



Celebrating National Remote Sensing Day in Honor of Dr. Vikram Sarabhai

On 12th August 2024, the ISRS Indore Chapter and CRSST at SGSITS Indore celebrated National Remote Sensing Day, honoring the birth anniversary of Padma Vibhushan Shri Vikram Sarabhai, the father of India's space program. Held at the Golden Jubilee Auditorium, the event featured a lecture by Prof. Muralikrishna Venkata Iyyanki, who discussed advancements in remote sensing and its global applications in agriculture, urban planning, and environmental monitoring. Contributions by faculty and professionals were recognized, with key organizers Er. Atul Kumar Pandey and Er. Vivek Tiwari ensuring the program's success. The event was a tribute to Sarabhai's lasting legacy in space technology.

INDIAN SOCIETY OF REMOTE SENSING
INDORE CHAPTER
&
CENTRE FOR REMOTE SENSING &
SATELLITE TECHNOLOGY SGSITS INDORE M.P.
TIME:- 2.30 PM
DATE:- 12 AUGUST 2024
CELEBRATING BIRTH ANNIVERSARY OF
LATE PADMA VIBHUSHAN SHRI VIKRAM SARABHAI
NATIONAL REMOTE SENSING DAY
SPEAKER
PROFESSOR MURALIKRISHNA VENKATA IYYANKI
PROFESSOR & DIRECTOR, R&D, IN TECHNOLOGICAL UNIVERSITY HYDERABAD
ADJUNCT PROFESSOR, ASLAN INSTITUTE OF TECHNOLOGY, BANGKOK
FORMER RAJA RAMANNA DRDO, FELLOW, GOI
VENUE
GOLDEN JUBILEE AUDITORIUM SGSITS INDORE
PATRON
DR. VIJAY R. RODE DIRECTOR SGSITS INDORE DR. RAKESH SAXENA PROF. & FORMER DIRECTOR SGSITS INDORE DR. SIDHARTH K. SONI MENTOR CRSST, SGSITS INDORE
CONVENOR
ER. ATUL KUMAR PANDEY CHAIRMAN ISRS INDORE CHAPTER ER. VIVEK TIWARI HON' SEC ISRS INDORE CHAPTER
ORGANISING COMMITTEE
PROF. REKHA JAIN ASSOCIATE PROFESSOR E. & TC. DR. S. K. JAIN PROFESSOR & COORDINATOR CRSST SGSITS INDORE
DR. SHAILESH CHAURE PROF. DEPT. OF GEOLOGY, HOLKAR SCIENCE COLLEGE INDORE ER. Y. S. PANWAR VICE PRESIDENT, ISRS INDORE CHAPTER
DR. VANDAN TEWARI HOD, CSE SGSITS INDORE PROF. ANJANA JAIN HOD, E & TC SGSITS INDORE DR. ARJUN PARAKHA HOD, E & E SGSITS INDORE
THE INSTITUTE OF ELECTRONICS & TELECOMMUNICATION
SGSITS INDORE CHAPTER

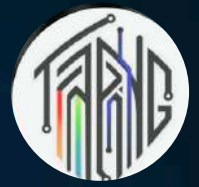
Innovation Day Celebration: Honoring Dr. APJ Abdul Kalam

The ECE Department celebrated Innovation Day on October 16, 2024, to commemorate the birth anniversary of Dr. APJ Abdul Kalam, the Missile Man of India. The event featured a thought-provoking session by Mr. Utkarsh Jyotishi, Co-founder of InDhanPay, who shared insights into entrepreneurial innovation and technological advancements. The celebration served as a tribute to Dr. Kalam's legacy and inspired students to pursue innovation with passion and purpose.

Department of Electronics and
Telecommunication
engineering
Remembering Bharat Ratan Dr. A P J
Abdul Kalam on his birth anniversary
INNOVATION DAY
Date: 16-10-24
Time: 3:30-5:30 pm
Venue: LT-402
Utkarsh Jyotishi
co-founder, InDhanPay



Department Events



Expert Lecture on "Introduction to MATLAB and Simulink Hardware Support Package for Raspberry Pi"

An expert lecture on 9th August 2024 at Shri G.S. Institute of Technology & Science (SGSITS) introduced students and faculty to MATLAB and Simulink Hardware Support for Raspberry Pi. Conducted by MATLAB expert Mr. Anshuman Prakash, the session highlighted seamless integration of MATLAB with Raspberry Pi, simplifying model-based design and real-time testing in embedded systems. Attendees gained practical insights into using simulation tools for hardware platforms, enhancing their skills in designing and simulating real-time applications. The event, organized with faculty support, bridged the gap between theory and practice, inspiring students to explore innovative embedded system development.



***"Expert lecture conducted by
Mr. Anshuman Prakash"***

First Year Induction Program - 12th September 2024

On 12th September 2024, the college hosted the First Year Induction Program for the incoming batch of students. The program, organized by the department, aimed to welcome and orient the new students to the academic culture and resources available at the institution. It was a comprehensive session designed to provide them with an overview of their academic journey, expectations, and opportunities for growth. The event served as a valuable starting point for the students to integrate into the college community, establish connections with peers and faculty, and set a strong foundation for their studies. We wish all the first-year students a successful academic year and a fulfilling journey ahead!



2024-28 E&TE BATCH



Department Events



Farewell of Prof. Vijay Rode, Ex-Director & Professor, Civil Engineering Department

On 26th September 2024, the college bid a heartfelt farewell to Prof. Vijay Rode, former Director and Professor of the Civil Engineering Department, on his superannuation. Over his distinguished career, Prof. Rode made significant contributions to civil engineering education, known for his deep knowledge, passion for teaching, and dedication to student growth. As department head, he played a key role in shaping the curriculum and fostering collaboration. His leadership extended to administrative and research initiatives that enhanced the department's and college's reputation. Prof. Rode's legacy of excellence will continue to inspire future generations.



“A Heartfelt Farewell to Prof Vijay Rode ”

Farewell of Prof. Smita Manepatil on Superannuation

On October 25, 2024, the ECE Department bid farewell to Prof. Smita Manepatil from the Mechanical Engineering Department on her superannuation after 38 years of distinguished service. With a Ph.D. in Condition Monitoring and Simulation Studies on Reciprocating Compressors from IIT Delhi (1997), M.E. (IEM) from Devi Ahilya University (1990), and B.E. (Mechanical) from Devi Ahilya University (1980), Prof. Manepatil has made significant contributions to research and education. Her dedication to mentorship and academic excellence has left a lasting impact on students and colleagues. We wish her a fulfilling and joyful retirement as she begins this new chapter.



“Farewell of Prof Smita Manepatil”




Department Events




Monthly Lecture Series by ATMS-Central India Chapter at SGSITS

As part of the ATMS (Antenna Testing and Measurement Society) Lecture Series, our department had the privilege of hosting a number of distinguished speakers who shared their expertise on various advanced topics in radio science and communications:


These sessions, as part of the ATMS Lecture Series, significantly contributed to the academic growth and knowledge base of our department.



Monthly Lecture Series Organized by
ATMS – Central India Chapter,
SGSITS – Indore (MP).
34th in series on 21st – Dec. 2024
at 6:45 PM on Virtual Platform




Meeting Link : <https://meet.google.com/hke-urxo-nic>



Speaker:
Aditya Sonwalkar - Principal
Consultant at V. C. Pvt Ltd.

Title:
Amateur Radio & its Future in
India.



AIM

ATMS India's vision extends beyond conferences, encompassing a monthly lecture series aimed at keeping the global antenna fraternity abreast of the latest developments. We are committed to spreading knowledge of Antenna Technology and its uses across diverse sectors, harnessing the power of microwaves for the betterment of society.

No.	Description	Timing
1	Welcome participants / dignitaries and introduction of lecture series by ATMS secretary.	6:45 to 6:50 PM.
2	Welcome Address By President ATMS.	6:50 to 6:55 PM.
3	Introduction of the speaker by Prof. S. K. Jain.	6:55 to 7:00 PM.
4	Lecture delivered by Mr. Aditya Sonwalkar.	7:00 to 7:50 PM.
5	Question and Answer.	7:50 to 7:55 PM.
6	Any Announcements.	
7	Vote of Thanks.	7:55 to 8:00 PM.

Patron: Prof. Neetesh Purohit- Director SGSITS – Indore (MP)

President: Prof. OPN CALLA.

Secretary - ATMS: Prof. R.K. Malaviya.

Chapter Coordinator: Dr. S.K. Jain – Prof. & Head, Department of Electronics and Telecommunication Engineering SGSITS – Indore (MP).

Contact : secretary@atmsindia.org or satishjain.jain@gmail.com


*“Lecture by
Aditya Sonwalkar”*



Monthly Lecture Series Organized by
ATMS – Central India Chapter,
SGSITS – Indore (MP).
33rd in series on 30th-Nov - 2024
at 6:45 PM on Virtual Platform




Meeting Link : <https://meet.google.com/omw-ocjh-xmz>



Speaker:
K. Thirupathaiah- Senior Member
of IEEE.

Title:
Optical Interconnects at
Subwavelength Wireless
Communication Networks.



AIM

ATMS India's vision extends beyond conferences, encompassing a monthly lecture series aimed at keeping the global antenna fraternity abreast of the latest developments. We are committed to spreading knowledge of Antenna Technology and its uses across diverse sectors, harnessing the power of microwaves for the betterment of society.

No.	Description	Timing
1	Welcome participants / dignitaries and introduction of lecture series by ATMS secretary.	6:45 to 6:50 PM.
2	Welcome Address By President ATMS.	6:50 to 6:55 PM.
3	Introduction of the speaker by Dr. Faiz Ahmed Siddiqui.	6:55 to 7:00 PM.
4	Lecture delivered by K. Thirupathaiah-Senior Member of IEEE.	7:00 to 7:50 PM.
5	Questions and Answers.	7:50 to 7:55 PM.
6	Any Announcements.	
7	Vote of Thanks.	7:55 to 8:00 PM.

Patron: Prof. Neetesh Purohit – Director SGSITS – Indore (MP).

President: Prof. OPN CALLA.

Secretary - ATMS: Prof. R.K. Malaviya.

Coordinator, CRST: Prof. S.K. Jain – SGSITS – Indore (MP).

Contact : secretary@atmsindia.org or satishjain.jain@gmail.com

*“Lecture by
K Thirupathaiah”*



Department Events



The HAM Radio Technical Discussion

The HAM Radio technical discussion was organized at the Police Training Center, Indore, on November 30, 2024, in honor of Subhas Chandra Bose's Jayanti. Various experts, including A.R. Singh and Dr. Prakash Vyavhare, discussed the significance of HAM Radio in today's world. Trainees actively participated, contributing to insightful discussions about the technology's practical applications.



"Trainees for the HAM Radio technical discussion"

Energy Literacy Training (ELT)

SGSITS, in collaboration with Indore Municipal Corporation and Energy Swaraj Foundation, successfully completed the Energy Literacy Training (ELT) to combat climate change under the leadership of our alum Dr. Chetan Singh Solanki. With widespread participation, the initiative empowered many to reduce emissions and embrace sustainable practices. Together, we move closer to making Indore a global leader in climate action!



"Brochure of Energy Literacy Training"



Faculty Achievements



Research Contributions

1. Sahayam Namrata, Anjana Jain, and Shekhar Sharma. "TLGT: Two-Level Game Theory Model for an Energy-Efficient Cluster-Head Selection and Data Transmission in WSN." published in Journal of The Institution of Engineers (India): Series B, 2024: 1-15.
2. Sahayam Namrata, Anjana Jain, and Shekhar Sharma. "Performance Analysis of Clustering Algorithm in WSNs Using Game Theory." Presented at National Conference on Technological Innovation in Engineering Science for Sustainable Development (TIESD-2024), 5-6 December 2024.
3. Sahayam Namrata, Anjana Jain, and Shekhar Sharma. "Game Theoretical Approach for the Formation of Clusters in WSNs." Presented at National Conference on Power System Planning: Emerging Trends and Technologies, 17-18 December 2024.
4. Mohit Pant, Leeladhar Malviya "SIW MIMO antenna with high gain and isolation for fifth generation wireless communication systems", published in journal Frequenz dated 2024/7/29
5. Mohit Pant, Leeladhar Malviya "Design of a high-gain, low-ECC 2x2 MIMO antenna for 28 GHz 5G wireless communication system", published in journal Physica Scripta dated 2024/10/14



Dr. L. D. Malviya



Dr. Shekhar Sharma



Dr. (Mrs.) Anjana Jain



Faculty Achievements



Prof. Anjana Jain talk on 6G future

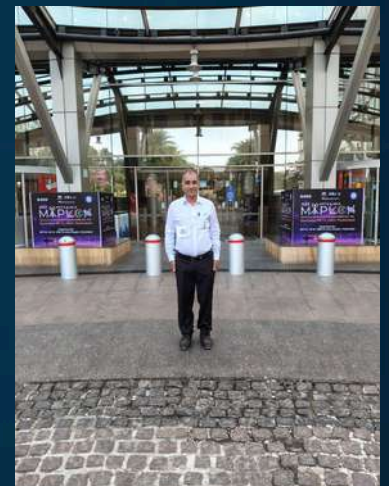
Prof. (Dr.) Anjana Jain, Former HOD of the Department of Electronics and Telecommunication Engineering at SGSITS, Indore, delivered the talk, highlighting India's advancements in 6G technology and its potential to lead globally on 6th November. The event was followed by a felicitation ceremony, recognizing contributions in the field of Electronics and Telecommunication. This celebration emphasized India's growing prominence in global communication technology, marking a significant milestone in the development of 6G.

She also participated in India Mobile Congress 2024 & World telecomm standard assembly during Oct 15-16 which was held first time in Asia.



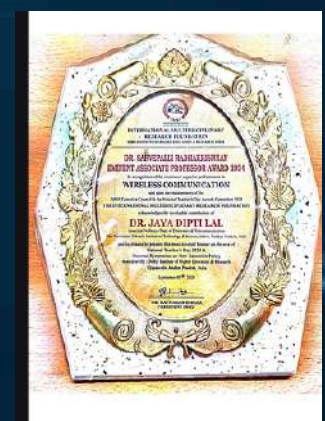
Research Presentation by Prof. LD Malviya

Prof. L.D. Malviya represented the ECE Department by presenting a research paper at the prestigious MAPCON conference held in Hyderabad from December 9–13, 2024. The paper, titled "Elliptical Shaped MIMO Antenna with Asymmetric Fins for mm-Wave Applications," was co-authored by Deepak Solanki, Ajay Parmar, and Prof. Malviya. This innovative work highlights advancements in antenna design for millimeter-wave technology, showcasing the department's contribution to cutting-edge research.



Award received by Prof. Jaya Dipti Lal

She received the Dr. Sarvpalli Radhakrishnan Eminent Associate Professor Award for the consistent superior performance in wireless. The award is presented on the eve of National Teachers' Day by International Multidisciplinary Research Foundation.





Faculty Achievements



Letter of Appreciation received by Prof. Manish Panchal

Prof Manish Panchal received the letter of appreciation as a member of the technical committee for cctv systems governed by the Indore bench of Hon'ble High Court of Madhya Pradesh. The appreciation letter is conferred by IPS Manoj Kumar Shrivastava, Indore.



In House Software Development

Inhouse software

Inhouse automatic antenna testing and measurement professional state of art software has been developed using NI LabView software and MODBUS 486 communication protocol. Now Antenna test and measurement laboratory (ATML) of the department is able to measure the following parameters within the range 50 MHz to 20 GHz

- (1)Gain
- (2)Directivity (polar and 2-D(x-y))
- (3)Efficiency
- (4)E plane polar Radiation pattern
- (5)H plane polar Radiation pattern
- (6)E plane 2- D (x-y)Radiation pattern
- (7)H plane 2-D (x-y) Radiation pattern
- (8)Axial ration (2-D, and polar)
- (9)3-D Radiation pattern
- (10)RCS
- (11)Reflection coefficient
- (12)Return loss
- (13)VSWR
- (14)SMITH Impedance plot
- (15) 2 and 4 port MIMO Parameters
- (16)Cable loss





Faculty Achievements



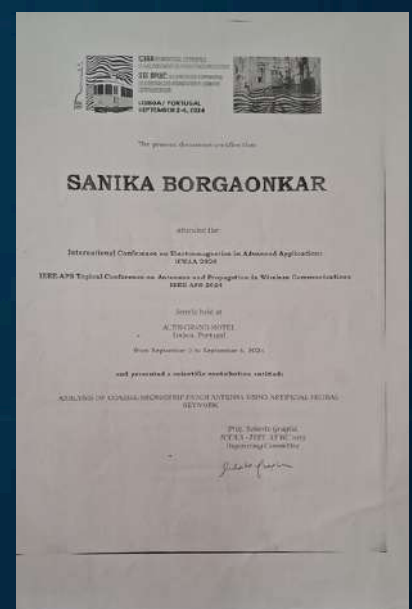
Representation at Prestigious Conferences & participation in the internships

Sanika Borgaonkar and Satish Jain represented SGSITS at renowned global conferences in 2024. They participated in the International Conference on Electromagnetics in Advanced Applications (ICEAA) and the IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (IEEE APS 2024) held from September 2-6 in Lisbon, Portugal. Sanika presented her research paper titled "Analysis of Coaxial Microstrip Patch Antenna Using Artificial Neural Network," showcasing innovative advancements in antenna design.

The duo also attended the IEEE SPACE 2024 Conference on July 22-23 in Bangalore, jointly organized by IEEE AESS Bangalore Chapter and DRDO, presenting groundbreaking ideas in aerospace and defense.

Additionally, Sanika completed an internship at aiCAS Lab, IIT Bombay, where she worked on analog circuit design, simulations, and antenna replication using advanced tools like Cadence Virtuoso and ANSYS HFSS.

Sanika a student of EI Branch has worked under guidance of Prof. S.K. Jain in ATMS Lab of the department.





Alumni Corner



Alumni Visit on 21st December 2024 on SGSITS Foundation Day

On 21st December 2025, Shri G.S. Institute of Technology & Science (SGSITS) had the privilege of hosting an alumni visit, bringing together former students to reconnect with their alma mater. The event was organized with the aim of fostering lasting bonds between alumni and the current student body, providing an opportunity for knowledge sharing, and discussing advancements in the field of education and industry. Alumni shared their experiences, insights, and career journeys, offering valuable guidance and mentorship to the students. The event was a great success, with alumni actively engaging in discussions and providing encouragement for the students' future endeavors. This reunion not only strengthened the alumni network but also served as an inspiration for the next generation of engineers.



"Glimpse of Alumni Visit , 21 Dec 2024"

Mrs. Ruchika Chouhan, Our Esteemed Alumna, Appointed as District Magistrate of Gwalior

We are thrilled to announce that Mrs. Ruchika Chouhan, an esteemed alumna of our institution, has been appointed as the District Magistrate (Collector) of Gwalior. This remarkable achievement highlights her dedication, hard work, and commitment to serving the public. Mrs. Chouhan's success is a source of immense pride for all of us, and her journey serves as an inspiration to current students. We wish her all the best in her new role and look forward to her continued contributions to society. Congratulations, Mrs. Ruchika Chouhan! Your achievement reflects the values and excellence we cherish at our institution.



"Mrs. Ruchika Chouhan hoisting the flag"



Alumni Words

Greetings juniors!

As you stand at this critical juncture in your academic journey, I want to share with you an exciting possibility—one that's not just about circuits and technology, but about shaping the future itself: Electronics Engineering. Picture a world where your ideas transcend the realm of thought and manifest into groundbreaking technology that changes how we live, work, and connect.



Dimple Kandhari



Paritosh Gaiwak

Hello fellow learners,
If you are reading this message,
I would like to congratulate you on getting the opportunity to build your career in our esteemed institute. Like you, I spent four years in our department, learning the art and craft of engineering, and it is using that experience that I communicate with you at this moment. Use the second year to learn these skills, and by the start of the fifth semester.

Words by Prof. Tapan Mukharjee

It was July 1971 when I came back from my third summer classes of the Sequential Summer Schools at IIT Kanpur. I was informed by my colleagues of the Department of Electrical Engineering that our department is going to be split, but not now. A new course of Electronics and Communication was started for top ten students of third year and some of the teachers of Electrical department will be teaching these students. Ten best students of the second-year pass outs, who earlier opted for Electrical Branch, were now allowed to take Electronics as their choice.



Prof. Tapan Mukharjee

*Former president & founder member of
E&TC dept.
Director of SGSITS Incubation Forum*



For complete Alumni Words
Scan here



Students Achievements



Empowering Lives with AI: A Project for the Visually Impaired

Satyam Singhal, a first-year ECE student at SGSITS, developed an app to assist visually impaired individuals by providing real-time visual descriptions through sound. Using AI and Large Language Models, the app combines object detection, language generation, and speech synthesis. Satyam credits Arpit for refining the user interface and selecting the best LLM for the project.



A Right-Hand Circularly Polarized Four-Port MIMO Antenna for WLAN Applications

2025 Photonics & Electromagnetics Research Symposium Abstracts, Abu Dhabi, UAE, 4-8 May

PIERS

A Right-hand Circularly Polarized Four-port MIMO Rectangular Microstrip Patch Antenna with Shifted Transmission Line for WLAN Applications

Devansh Ramdurgekar¹, Shree Veer Patel², and Satish K. Jain¹

¹Department of Electronics and Telecommunication Engineering
Shri G.S. Institute of Technology and Science, Indore, M.P., India

²Department of Electrical Engineering
Shri G.S. Institute of Technology and Science, Indore, M.P., India

Abstract— This paper presents a novel design for a circularly polarized edge-fed rectangular microstrip patch antenna operating at 2.4 GHz, achieving a simulated S_{11} measured < -35 dB. Circular polarization is achieved through a unique structure incorporating triangular slots on two non-adjacent vertices and a transmission line shifted to the third edge.

The proposed antenna is integrated into a four-element MIMO system, with elements orthogonally placed on a single FR-4 substrate to enhance polarization diversity and ensure minimal mutual coupling. The MIMO system demonstrates appreciable isolation, with an envelope correlation coefficient (ECC) below 0.0068 for all port combinations and channel capacity loss (CCL) under 8.1.

The antenna has been designed according to rectangular patch design equations, with a length of 3 cm and width of 2.7 cm. The shifted transmission line is 2 mm wide and rectangular edge cuts are of height 3 mm each. This has been achieved after numerous parametric iterations conforming reflection performance and gain.

After simulating the antenna and MIMO system in CST Studio Suite, they were fabricated in the laboratory and experimentally measured to validate their performance using a VNA and positioner in an anechoic chamber. The antenna exhibited excellent gain and directivity. Antenna performance was validated by measuring S-parameters, directivity, and efficiency. The MIMO system's performance was validated by measuring and computing ECC, CCL, mean effective gain (MEG), and diversity gain (DG). The results demonstrated a high degree of similarity between simulated and measured values, confirming the design's utility for Wi-Fi and WLAN communications.

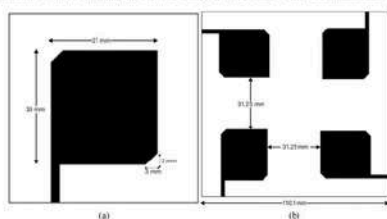


Figure 1: (a) Proposed antenna design, (b) Four-port orthogonal MIMO configuration.

Researchers at SGSITS, Indore, including Devansh Ramdurgekar, Shree Veer Patel, and Prof. Satish K. Jain, developed a circularly polarized microstrip patch antenna for 2.4 GHz WLAN applications. The design features an edge-fed antenna with triangular slots and a shifted transmission line for right-hand polarization, offering exceptional performance for high-efficiency WLAN communications. This paper has been accepted in PIERS 2025 in Abu Dhabi.



Clubs and Societies

Workshop on Robotics Held at SGSITS in Preparation for IIT Bombay Techfest

The Robotics Club of SGSITS, also known as the SGSITS Robotics Club (SRC), organized an insightful workshop at the Golden Jubilee Auditorium. The event aimed to equip students with advanced knowledge of robotic technologies, covering topics like robotic surgery, automated systems, robotic arms, and security robots.

Mudit Thakkar, CEO of Youngovator, shared valuable strategies for excelling in robotics, while Prof. Manish Panchal, mentor of the Robotics Club, guided participants in building robots for the "MAZE" category, a key event in IIT Bombay's Techfest.

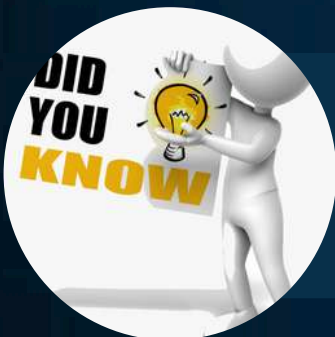
The workshop, designed to inspire innovation and foster creativity, also highlighted the collaborative efforts of the SRC as it prepares students for future challenges in robotics and upcoming competitions like the IIT Bombay Techfest.



Robot for "MAZE"



"Mudit Thakkar guiding the students at Golden Jubilee Auditorium"



"The inception of maze-solving robots traces back to the IEEE's pioneering efforts in 1979, marked by the establishment of the first maze-solving robot competition known as the IEEE Micro-Mouse Maze Contest"



Media Coverage



पत्रिका

वर्कशॉप : रोबोटिक्स क्लब ने विभिन्न प्रकार के रोबोट्स और तकनीक की दी जानकारी

SGSITS 'मेज' के लिए रोबोट बनाएगा, आइआइटी बॉम्बे के टेक फेस्ट में लेगा हिस्सा



इंदौर @ पत्रिका, श्री गोकुलदाम सेक्सरिया इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस (एसजीएसआईटीएस) का रोबोटिक्स क्लब, आइआइटी बॉम्बे में होने वाले टेक फेस्ट की तैयारियों में जुट गया है। इसके लिए रविवार को एक वर्कशॉप की गई, जिसमें विभिन्न प्रकार के रोबोट और उनकी तकनीक के बारे में विद्यार्थियों को जानकारी दी गई। इस वर्कशॉप में आइआइटी बॉम्बे के टेक फेस्ट के जॉनल टीम के हेड भी शामिल रहे। संस्थानों को 'मेज' के लिए रोबोट तैयार करना है, जिसमें एसजीएसआईटीएस भी शामिल होगा। रोबोटिक्स क्लब के मेटर प्रो मनीष पांचाल वर्कशॉप में विद्यार्थियों को नए-नए प्रकार के रोबोट्स और उनके तकनीकी पहलु बताने। इसके साथ ही रोबोटिक्स सर्जरी, औद्योगिक क्षेत्र में हेन्वी सामान को एक जगह से दूसरी जगह पहुंचाने के लिए ऑटोमैटिक रोबोट, रोबोटिक आर्म और सुरक्षा में उपयोग आने वाले अत्याधुनिक रोबोट और उनके मेकेनिज्म को भी बताया गया।

सभी संस्थानों को 'मेज' रोबोट के लिए देंगे ट्रेनिंग

आइआइटी बॉम्बे हर साल टेक्नोलॉजी को लेकर फेस्ट आयोजित करता है। इसमें एक पार्ट रोबोटिक्स का रहता है। इसके लिए आइआइटी बॉम्बे देशभर के टेक्निकल इंस्टीट्यूट्स को प्रॉब्लम डेफिनेशन देता है, जिसके आधार पर उन्हें रोबोट तैयार करना होता है। इस बार संस्थानों को 'मेज' के लिए रोबोट तैयार करना है। इसके लिए बकायदा ट्रेनिंग दी जाती है। आइआइटी बॉम्बे हर जगह जॉनल सेंटर बना देता है, जहां से संस्थान ट्रेनिंग ले सकते हैं।

इसके अलावा अलग-अलग प्रकार के रोबोट्स और उनके काम करने के तरीकों के बारे में जानकारी दी गई।

डॉक्टर, इंजीनियर या सरकारी नौकरियों को ना... करियर के लिए एआई और आइओटी पहली पसंद

डॉक्टर, इंजीनियर या सरकारी नौकरियों को ना... करियर के लिए एआई और आइओटी पहली पसंद

एआई और आइओटी के क्षेत्र में करियर बनाने वाले छात्रों को इन क्षेत्रों में शामिल होने की सलाह दी गई है। एआई और आइओटी के क्षेत्र में करियर बनाने वाले छात्रों को इन क्षेत्रों में शामिल होने की सलाह दी गई है।



अंक और अक्षर का ज्ञान एक शिक्षक ही दे सकता है-प्रणाम सागरजी मसा

शिक्षा के क्षेत्र में उत्कृष्ट कार्य करने वाले हट्ट सम्मानित

अंक और अक्षर का ज्ञान एक शिक्षक ही दे सकता है-प्रणाम सागरजी मसा

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प्रणाम सागरजी मसा ने अपने 40 वर्षों के शिक्षण के दौरान अनेक छात्रों को शिक्षा के क्षेत्र में उत्कृष्ट कार्य करने वाले हट्ट सम्मानित किया।

रोडियो विषय पर विशेष पारिचर्चा

रोडियो विषय पर विशेष पारिचर्चा

डॉ. विवेक कुमार ने रोडियो विषय पर विशेष पारिचर्चा की।

सीनियर सिटीजन ने दी गीतों की प्रस्तुति

डॉ. विवेक कुमार ने गीतों की प्रस्तुति दी।

नाल में दोगुना होगा आंकड़ा

नाल में दोगुना होगा आंकड़ा

डॉ. विवेक कुमार ने नाल में दोगुना होगा आंकड़ा की घोषणा की।

शिक्षक दिवस पर एक अभिनव प्रयोगशाला का आयोजन

शिक्षक विद्यार्थी का जीवन गढ़ता है : मुनिश्री प्रमाण सागर



शिक्षक दिवस पर एक अभिनव प्रयोगशाला का आयोजन

शिक्षक विद्यार्थी का जीवन गढ़ता है : मुनिश्री प्रमाण सागर



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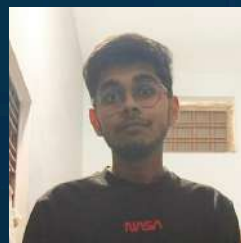
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