



**GUJARAT
TECHNOLOGICAL
UNIVERSITY**

AN INTERNATIONAL INNOVATIVE UNIVERSITY
(Accredited with A+ Grade by NAAC)
State Government University

KANASH

Reflection of GTU - SET Activities

GTU – School of Engineering and Technology

**Volume VI, Issue- I
January–June 2025**

TABLE OF CONTENTS

Important
Highlights / Achievements

PAGE NO.

03

Academic & Research Contributions

PAGE NO.

06

Faculty Accolades and Activities

PAGE NO.

09

Student Initiatives and Events

PAGE NO.

11

SAPTAK Club
& Other Student Clubs

PAGE NO.

12

Workshops, FDPs,
and Training Programs

PAGE NO.

13

Internship & Placement Updates

PAGE NO.

15

Photo Gallery

PAGE NO.

16

Message from the GTU-SET

It is with great pride and enthusiasm that I present the latest edition of the KANASH-Newsletter, Volume – 6 (I), showcasing the commendable accomplishments of our faculty and students from January to June 2025.

In this transformative half-year, GTU-SET has continued its legacy of academic distinction, research innovation, and societal contribution. From publishing impactful research in Scopus and Web of Science indexed journals to securing competitive research grants and delivering expert sessions across the nation, our faculty have reinforced the institute's stature at every level.

Notably, the commitment of our students to lifelong learning through NPTEL, CISCO, Infosys Springboard, and Google certifications has been truly commendable. We also celebrate the vibrant activities of our SAPTAK clubs, and GATE achievers.

As we move forward, GTU-SET reaffirms its mission to empower engineers with cutting-edge skills, ethical responsibility, and global readiness. I extend my heartfelt appreciation to all contributors and invite the GTU-SET family to continue striving for excellence.

Let us move ahead to explore the remarkable highlights of this journey.

Best wishes,

Dr. J. A. Amin,
Professor, GTU-SET.

2. Faculty Achievements

12-Week Internship @GTU-Bosch Centre of Excellence in Automation

Duration: 24th January 2025 – 18th April 2025

Venue: GTU-Bosch Centre of Excellence in Automation, GTU Chandkheda Campus

Internship Coordinator: Prof. Sanjivkumar Shakya

A cohort of five students from GTU-SET successfully completed a Twelve-Week Industrial Automation Internship Program hosted at the GTU-Bosch Centre of Excellence in Automation. The program offered an in-depth learning experience across four major domains of modern industrial automation:

Hydraulics – Led by Mr. Piyush Chauhan, students explored the fundamentals, interacted with hydraulic components, and performed hands-on lab exercises to simulate real-world control systems.

- **Pneumatics** – The sessions delved into pneumatic circuits, valve mechanisms (both horizontal and vertical), and pressure control techniques, with active engagement in live setups.
- **Sensors** – Prof. Sanjivkumar Shakya delivered a comprehensive presentation covering the classification, applications, and sensing capabilities of industrial sensors, followed by practical sessions to reinforce learning.
- **Programmable Logic Controllers (PLC)** – Students learned to design ladder diagrams, trace signal flow, and implement automation tasks both in simulation and hardware environments.



The program concluded with a practical evaluation conducted by industry experts on 18th April 2025, followed by an open feedback session, where students shared insights, technical feedback, and suggestions for future iterations.

Expert Engagements for GTU E-Content Development

As part of Gujarat Technological University's initiative to promote vernacular education and enhance accessibility, selected faculty members from GTU-SET were invited as Subject Matter Experts for the development of E-content and video lectures in Gujarati Language, aligned with the B.E. curriculum.

Faculty Name	Subject	Unit Covered	Semester	Lecture Hours
Prof. Mridul Seth	Mechanics of Solids (3130608)	Unit 1: Introduction	3rd Sem	02 hours
Dr. Jignesh Amin	Mechanics of Solids (3130608)	Unit 3: Applications of Fundamental of Statics	3rd Sem	08 hours

These appointments were made under GTU's collaboration with DTE to deliver high-quality vernacular content to B.E. students, supporting a more inclusive learning ecosystem. Coordination for content development was led by Dr. Jignesh Amin, Professor, GTU-SET.

Awards & Appreciations

Sr. No.	Recipient	Document Type	Issuing Body / Programme	Date & Venue	Citation / Purpose
01	Prof. Anamika Mittal	Certificate of Excellence – Expert Evaluator	GTU Code Unnati Innovation Marathon 2024-25 (SAP Code Unnati × Edunet Foundation)	25 Mar 2025 – GTU Campus, Ahmedabad	Recognizes as expert evaluator for final showcase projects
02	Prof. Raj Hakani	Certificate of IP Excellence	Intellectual Property Facilitation Centre (IPFC), GTU	28 Apr 2025 – World IP Day, GTU	Awarded for achieving maximum copyrights, designs, patents & trademarks between 24 Apr 2024 – 21 Apr 2025
03		Certificate of Excellence – Expert Evaluator	GTU Code Unnati Innovation Marathon 2024-25 (SAP Code Unnati × Edunet Foundation)	25 Mar 2025 – GTU Campus, Ahmedabad	Acknowledges expert-level evaluation of student projects in final showcase
04	Sanjiv Shakya (Assistant Professor, GTU-SET)	Letter of Gratitude	Government Polytechnic, Chhota Udepur (Govt of Gujarat)	07 Apr 2025 – Chhota Udepur	Thanks Letter for expert lecture on “Understanding the Working & Applications of Three-Phase Transformer”; notes informative Q&A session and invites future collaboration
05	Dr. Kaushik Gondaliya	Memento and Letter of Gratitude	S. N. Patel Institute of Technology & Research Center, Umarakh.	07 Apr 2025	Recommendation for an expert session on “Introduction to Earthquake Engineering”.
06	Prof. Deepak Upadhyay	Gujarat Technological University, Ahmedabad	Resource Person	8 Jan 2025	Online Training on साइबर सशक्तिकरण by Central Institute of Educational Technology (CIET), NCERT, New Delhi

Peer-Reviewed Journal Articles

1. Vyas, R., Bush, R. C., Ansari, A., Gondaliya, K., & Shirkol, A. I. (2025). Seismic performance assessment of RC buildings under Turkey ground motions designed by force-based design and improved performance-based plastic design method. *Asian Journal of Civil Engineering*, 26(3), 1355-1371.
<https://doi.org/10.1007/s42107-024-01255-x>
2. Bush, R. C., Shirkol, A. I., Gondaliya, K., & Biradar, B. B. (2025). Seismic performance and fragility assessment of RC frame buildings equipped with yielding brace systems using NSPA and IDA. *Practice Periodical on Structural Design and Construction*, 30(4), 04025065.
<https://doi.org/10.1061/JSDCCC.SCENG-1726>
3. Joshi, S. B., & Warriar, R. R. (2025). Enhanced fileless malware detection using a deep-learning approach. *International Research Journal of Innovations in Engineering and Technology*, 9(3), 221-227.
<https://doi.org/10.47001/IRJIET/2025.903029>
4. Kharwar, A., Vadhvani, D., Dabhi, D., & Jariwala, V. (2025). Enhancing intrusion detection: Combining LogitBoost algorithms and random forest. *International Journal of Ad Hoc and Ubiquitous Computing*, 49(2), 119-131.
<https://doi.org/10.1504/IJAHUC.2025.146425>
5. Pasaya, A., Hadia, S., & Bhatt, K. (2025). Power-efficient 8-bit ALU design using squirrel search and swarm intelligence algorithms. *Journal of Electronics, Electromedical Engineering and Medical Informatics*, 7(3), Article 822.
<https://doi.org/10.35882/jeeemi.v7i3.822>
6. Pasaya, A., Hadia, S., & Bhatt, K. (2024). 2024 4th Asian Conference on Innovation in Technology (ASIANCON) (pp. 1-7). IEEE. doi: 10.1109/ASIANCON62057.2024.10837983.
7. Pasaya, A., Hadia, S., & Bhatt, K. (2025, March 10). Design and implementation of a low-power 8-bit ALU using multi-layered power reduction parameters. Paper presented at the International Conference on Advancement and Innovations in Engineering, Technology and Management, Dahiwadi College, Satara, Maharashtra.
8. Pasaya, A., Hadia, S., & Bhatt, K. (2025, January 29). Power-efficient 16-bit ALU design leveraging reset and tri-state logic for embedded systems. In *Proceedings of the 5th International Conference on Micro/Nanoelectronics Devices, Circuits & Systems (MNDCS-2025) (Hybrid Mode)*, NIT Silchar, Assam, India. (Presented)
9. Bheda, S., Hadia, S., & Karpe, V. (2025, January 24). Enhancing animal detection and rescue system by using artificial intelligence. Paper presented at the 2nd International Conference on Advances in Engineering (ICAE-2025), L J University, Ahmedabad, Gujarat, India. (Presented)
10. Pasaya, A., Hadia, S., & Bhatt, K. (2025, March 8). ALU designs using reversible logic and advanced power dissipation measures for nano-electronic circuits. In *Abstract Book, An International Conference on Advancement and Innovations in Engineering, Technology and Management*, Dahiwadi College, Satara, Maharashtra. ISBN: ICAETS-2025-PHY Op8.
11. Patoliya, S., & Hadia, S. K. (2025, March 10). Implementation of deep learning models for disease progression monitoring and early diagnosis in crop fields. Paper presented at the International Conference on Advancement and Innovations in Engineering, Technology and Management, Dahiwadi College, Satara, Maharashtra.

Conference / Book-Chapter-in-Proceedings

1. Gondaliya, K., Kumari, S., Amin, J., Ansari, A., & Bush, R. C. (2025, February). A novel machine-learning framework for seismic vulnerability assessment of urban infrastructure. In *Proceedings of the 2025 International Conference for Artificial Intelligence, Applications, Innovation and Ethics (AI2E)* (pp. 1-5). IEEE.
<https://doi.org/10.1109/AI2E64943.2025.10982814>
2. Raval, A., Maheriya, A., Panchal, S., & Borisagar, K. (2025, January). Disentangled Attention Based Multi-Task Learning with Structural Estimations for Audio Feature Processing and Identification. In

Resource-Person Contributions

GTU-SET faculty members have actively contributed their expertise as invited speakers, expert talk deliverers, and innovation mentors across various reputed platforms. Their engagements reflect our school's academic outreach and thought leadership in engineering and technology.

Faculty Name	Contribution / Topic	Event / Institution	Date
Prof. Mridul Seth	Expert Talk: "Application of Remote Sensing and GIS for Rural Development"	Vishwakarma Yojana Phase-XII Technical Seminar, GTU	15 Jan 2025
	Expert Session: "Remote Sensing Basics & Applications"	Online Session – GTU (Mail dated 18 June)	18 Jun 2025
	Expert Talk: "From Pixels to Projects using GEE"	BVM Engineering College, VVN	2 Apr 2025
	CBP on "Application of Remote Sensing in Irrigation Command Area Management"	GTU-SET in collaboration with WALMI	21–22 Apr 2025
	CBP on "GeoSpatial Intelligence: Hands-on Training with GEE & QGIS"	GTU-SET for Flood Control Cell, Gandhinagar	30 Jun 2025
Prof. Deepak Upadhyay	Expert Lecture: "Python-Powered Forensics Case Study"	IGDTUW, Short-Term Training Program	28 May 2025
	Seminar: "Cybersecurity Challenges in IoT Devices"	SAGE University, Bhopal	15 May 2025
Prof. Rasik Makwana	Corporate Training: "Remote Sensing Fundamentals & Civil Engineering Applications"	LCC Projects Ltd., Ahmedabad	6 Jun 2025
Dr. Seema Joshi	Invited Speaker: "Challenges and Opportunities in Web 3.0, DeFi, and Cryptospace"	Future Crime Summit 2025, New Delhi	13–14 Feb 2025
Prof. Raj Hakani	Trainer: "Foundation Training for Innovation Ambassadors"	GTU under IIC	29 Mar 2025
	Expert Talk: "Idea to Startup – From Ideation to Execution"	VVP Engineering College, Rajkot	7 Feb 2025
Prof. (Dr.) J. A. Amin	Expert Lecture: "Composite Beam Design in Steel Structures"	STTP on Structural Steel Design, MSU Baroda	13 Feb 2025

Research Paper Reviews

- **Dr. J. A. Amin**
 - Mechanics of Advanced Materials and Structures
 - The Structural Design of Tall and Special Buildings, Willey
- **Prof. S. K. Hadia**
 - International Journal of Electronics
 - Other various Conferences
- **Prof. Aanal Raval**
 - Journal of Engineering and Applied Science
 - IEEE-ICCA 2025 Conference
- **Dr. Kaushik Gondaliya**
 - Iranian Journal of Science and Technology, Transactions of Civil Engineering
 - Earthquake engineering and Engineering vibration
 - Discover civil engineering, Springer Nature
- Engineering Structures, Elsevier.
- **Prof. Raj Hakani**
 - IEEE Transactions on Systems, Man and Cybernetics: Systems
 - IEEE Access
 - IEEE Sensors Journal
 - Arabian Journal for Science and Engineering
 - The Egyptian journal of remote sensing and space sciences
 - Various international conferences
- **Prof. Seema Joshi**
 - International Conference on Computational Complexity, Security and Data Science
 - International Journal of advanced computer science and applications

Category	Title / Invention	Inventor(s)/ Applicante(s)	Application/ Design No.	Filing Grant Date	Status
Patent Filed	Smart Robotic System for Efficient Object Retrieval and Delivery in Sports Robotics	Prof. Raj Hakani	202521002675	11 Jan 2025	Filed & Published (Awaiting Examination)
Patent Filed	Spherical Object Vectoring and Spin Control Device		202521005131	22 Jan 2025	Filed & Published (Awaiting Examination)
Design Registered	Automated Planting and Harvesting Robot		439799-001	07 Dec 2024	Granted (Reg. Date: 06 Feb 2025)
Design Registered	Device for Autonomous Geo-Fencing and Area Monitoring Processing		444287-001	15 Jan 2025	Granted (Reg. Date: 24 Mar 2025)
Design Registered	Device for Navigation Control of Remote Vehicles		444289-001	15 Jan 2025	Granted (Reg. Date: 26 Mar 2025)
Design Registered	Tissue Paper Dispenser		425013-001	29 Jul 2024	Granted (Reg. Date: 15 May 2025)
Patent Filed	System & method patent for controlling decentralized drone system		2025321053140	31 May 2025	Published

Consultancy & Industry Outreach

Faculty/Department	Project / Service	Value (₹)
Department of Civil (Structural Engineering)	Structural-design vetting, Proof checking and capacity program, etc.	67,000.00/-
Prof. Deepak Upadhyay	Value-added Cyber-security certification course & 12-week internship supervision	2,51,340.00/-
Total Amount:		3,18,340.00/

Research Funding

Prof. Raj Hakani – SMS Grant (GTU) for “Advanced UAV Navigation: Dynamic Geo-Fencing & Control”. **Sanction Amount:** 1,00,000.00/- (Commencement of Research Work - 7 February 2025)

3. Faculty Development & Certifications

MOOCs & Formal Certifications

Faculty Name	Highlighted MOOCs / Certifications / Workshops /	Organiser / Platform
Prof. Deepak Upadhyay	- Innovation Ambassador Training – Foundation, Advanced levels, and Reskilling - One-month Internship in Drone Forensics, - AI Computer Vision Workshop - Industrial Training - Importance of Cybersecurity and Cyber Psychology in Today's World - Emerging Frontiers in AI-Driven Edge & Quantum Computing: Bridging Future Technologies	MoE Innovation Cell, Industry Partner (DroneTech), AI Industry Group, Pelorus Technologies Pvt. Ltd; Computer Society of India, Kolkata Chapter.
Dr. Seema B. Joshi	Empowering Faculty on Intellectual Property Rights: Patent, Trademark, Design, GIS & Plant Varieties	DPIIT-SPRIHA IPR Chair, GTU-IPFC and RDC Cell, GTU
Prof. Mridul Seth	- Innovation Ambassador – Foundation Level, - Navigating Scopus: Empowering Research Productivity	MoE Innovation Cell, Elsevier
Prof. Komal Prajapati	- Emerging Frontiers in AI-Driven Edge & Quantum Computing: Bridging Future Technologies - Digital Forensic Investigation and Incident Response - Block Chain - Advanced Topics in HPC and Deep Learning - AI Computer Vision Series “Structure from Motion: Fundamental and Applications”	Infosys Springboard, Information security education and awareness (ISEA) Project Phase - III, GUJCOST and C-DAC, Pune.
Prof. Dipak Dabhi	- Digital Forensics Investigation & Incident Response FDP - AI Computer Vision Workshop - NEP 2020 Orientation & Sensitisation Programme - Emerging Frontiers in AI-Driven Edge & Quantum Computing: Bridging Future Technologies - Outcome-Based Education Awareness Workshop	National Forensics Academy, Industry Partner, Malaviya Mission Teacher Training Programme (MM-TTP).
Prof. Ritisha Bhatt	- Outcome-Based Education Awareness Workshop - AI Computer Vision Industry Series - Digital Forensics Investigation & Incident Response FDP	GTU IQAC, AI Industry Forum, National Forensics Academy
Prof. Anamika Mittal	- Digital Forensics Investigation & Incident Response FDP - NEP 2020 Orientation & Sensitisation Programme - AI Computer Vision Series “Structure from Motion: Fundamental and Applications” - Emerging Frontiers in AI-Driven Edge & Quantum Computing: Bridging Future Technologies	National Forensics Academy, Malaviya Mission Teacher Training Programme (MM-TTP), Computer Society of India, Kolkata Chapter
Dr. Kaushik Gondaliya	- Modeling for Torsion in ETABs - Modeling and Design of a Reinforced Concrete Slab in RFEM 6 - Introduction to the New Dlubal API for RFEM - Wind Simulation with RWIND 3 and RFEM 6 - Engineering the Span: Bridge Superstructures (Part-I)	CSI Engineering Software Pvt Ltd; Dlubal Software, Germany; SVNIT, Surat with SENVIRA Engineering Private Limited.

Prof. Rasik V. Makwana	• Sustainability Innovation Trends in Civil Engineering • Two Week Industrial Training on Civil Engineering	AICTE Training & Learning Academy, LCC Projects Limited
Prof. Sanjivkumar Shakya	• Basic Hydraulics • AI Computer Vision Series “Structure from Motion: Fundamental and Applications” • Outcome-Based Education Awareness Workshop	Bosch Rexroth India Pvt. Ltd., Computer Society of India, Kolkata Chapter

Capacity-Building Events Co-ordinated at GTU-SET

GTU-SET's proactive faculty leaders ensured a vibrant learning ecosystem—blending government collaborations, global industry expertise, and state-of-the-art technical content—to elevate skills across our academic community in the first half of 2025.

Date(s) & Duration	Event Title / Focus	Lead Coordinator(s)	Audience & Reach	Highlighted Resource Persons / Partners
30 Jun – 4 July 2025 (5-FDP)	“Frontiers of Artificial Intelligence in Engineering Research & Education”	Dr. Gautam D. Makwana	72 Faculty & PG Scholars from nine GTU – affiliated colleges	Prof. Pradeep Dixit (IIT-B) Prof. Nihar Mohapatra (IIT-Roorkee) eInfoChips -Arrow Labs
06 – 07 May 2025 (2-Day Hands-on Training)	LabVIEW for Electronics & IoT Applications	Prof. Gautam D. Makwana (CoE-IoT), Prof. Ritisha Bhatt	41 UG/PG students, 9 faculty	Rudraksha Technologies, Indore (national-level trainer team)
03 – 07 March 2025 (5-Days FDP)	Digital Forensics investigation and Incident response	Prof. Deepak Upadhayay	More than 70 Participants from various national and international level organization, University & Institutes.	Part of ISEA Project Phase – III (Meity), Eminent Speaker from RRU, ISRO, Adani Green energy, PELORUS Technologies.
10 – 11 May 2025 (2-Day Boot Camp)	AWS Cloud Essentials (Foundation) – Batch-1	Prof. Mahesh Panchal, Prof. Anamika Mittal, & Prof. Komal Prajapati	22 participants	AWS Academy India
14 – 15 Jun 2025 (2-Day Boot Camp)	AWS Cloud Essentials – Batch-2		32 participants	AWS Academy India
27 Mar 2025 (1-Day Workshop)	“Building-Bricks of Blockchain: Smart Contracts”		26 participants (faculty + industry)	CoE-Blockchain @ GTU
19 Apr 2025 (Half-Day Expert Talk)	Dynamic Malware Analysis & Threat Intelligence	Prof. Seema Joshi	110 B.Tech (Cyber-Security) students	Mr. Shilpesh Trivedi – Lead Security Researcher, Qualys
21 – 22 Apr 2025 (2-Day Workshop)	Edge-AI & CNNs for IoT Devices	Prof. Parth M. Chauhan	38 IoT & EC faculty members	Dr. Nikunj V. Tahilramani (NIT-Surat)
28 Apr 2025 (1-Day Showcase)	Design Demo Day – National Technology Week	Prof. Raj Hakani	350 visitors; 43 student prototypes	GTU IDEA LAB & DIC
21 – 22 Apr 2025 (2-Day Workshop)	Remote-Sensing Tools in Civil Infrastructure	Prof. Mridul Seth	27 Deputy Executives, Sardar Sarovar Project	BIS Civil-Engineering Club
08 Apr 2025 (1-Day CBP)	Flood Control Preparedness	Prof. Rasik V. Makwana	43 officials – Flood Control Cell, Gandhinagar	Gujarat Disaster Management Authority

02 Apr 2025 (Invited Lecture)	Wearable-Sensor Attack Mitigation via WSNs	Prof. Gautam Makwana	120 PG students, external guests	Prof. Saif S. Fakhruddin (Univ. of Kerbala, Iraq)
25 Mar 2025	Admission Awareness (ACPC) for 12th Science Students	Prof. Gautam Makwana & Prof. Rasik Makwana	300+ higher-secondary students	Prof. C. K. Makwana & Dr. U. B. Patel (ACPC)
	The Pre-placement Activities	Prof. Gautam Makwana, Prof. Kanu Patel	From all the branches of the students at GTU-SET.	Mrs. Ruchika Sharma, Mr. Rahul Patira,
06 – 07 Mar 2025 (2-Day Training)	Hands-on QGIS for Municipal GIS Cells	Prof. Mridul Seth	30 Exec. Engineers (Urban Dev. Dept., GoG)	QGIS India User Group
04 Mar 2025	AI Governance & BIS Standards	Prof. Gautam Makwana	60 students, 10 faculty	Ms. Savitha Sattu (Scientist-D, BIS)
01 Mar 2025 (Career-Skills Drive)	Resume Writing, Aptitude & Interview Masterclass	Prof. Gautam Makwana (T&P Cell)	125 final-year students (all branches)	GTU-SET Alumni Mentors
5 May 2025	Advanced Deep Learning Techniques and Applications for IoT Systems”	Dr. S. K. Hadia, Prof. Parth Chauhan	—	—
29-30 March 2025	ML & DL with Tensor flow & Python-Hands on	Prof. Raj Hakani	39 Students and 9 Groups	GTU Innovation Centre
9 - 14 June 2025	FDP on “Emerging frontiers in AI-Driven Edge & Quantum Computing: Bridging Future Technologies”	Dr. Dipak Dabhi	FDP coordinator from GTU with joint efforts from IIT - Roorkee.	Noida Institute of Eng. & Tech., Greater Noida
18 Feb 2025	Technical Session on AI	Prof. Gautam D. Makwana (CoE-IoT), Prof. Dipak Dabhi	Technical Session organized for the GTU-SET students.	Under the aegis of BIS
21st Mar 2025	World Arduino Day – Hands-on Arduino Workshop	Prof. Raj Hakani	60+ EC/CE students; 1-day hands-on using Arduino IDE; funded via DIC/ICICI Foundation	—
5th Apr 2025	Drone Technology Workshop – Navigating the Future	Prof. Raj Hakani	Expert session by DRONE LAB; covered UAV design, IoT, AI/ML	—
21– 22 Apr 2025	Digital VLSI Design and Synthesis using Cadence EDA Tools	Prof. G. D. Makwana, Prof. Parth Chauhan	27 students; RTL design, CMOS, Verilog/VHDL, synthesis to layout	—
2nd Apr 2025	Research Talk – Intelligent Air Pollution Prediction using Wireless Sensors	Prof. G. D. Makwana	100+ PG/UG/PhD students; asthma attack system design using WSN	—

8th May 2025	Workshop – Design of Electronic Systems using LabVIEW	Prof. G. D. Makwana, Prof. Ritisha Bhatt	VI design, LabVIEW structures, UG-focused hands-on session	—
9th May 2025	Workshop – Use of MATLAB in Engineering	Prof. G. D. Makwana	25 UG students; MATLAB tool demo, use cases, hands-on	—
5th May 2025	Expert Session – Advanced Deep Learning Techniques for IoT Systems	Prof. S. K. Hadia, Prof. Parth Chauhan	Led by Dr. Nikunj V. Tahilramani; explored CNNs, RNNs, GANs, edge devices	—
10th May 2025	National Technology Day – Student Design Demo/Expo	DIC Team (Under Prof. J. A. Amin)	200 students (1st–2nd year); 40+ projects; across AI-ML, Cyber Security, IoT	DIC (GTU-SET)
11th May 2025	ACPC Admission Awareness Seminar	Prof. G. D. Makwana, Prof. Rasik V. Makwana	80+ students/parents; guided by Prof. C. K. Makwana and Dr. U. K. Chhaya	GTU-SET with ACPC
16 Jun – 26 Jun 2025	Industry Internship – RTL to GDS-II: From Silicon to Design	Prof. G. D. Makwana, Prof. Parth Chauhan	67 selected students from GTU-affiliated colleges; 6-week intensive VLSI design program	EC + MeitY + Enfiships + ICICI
30th Jun 2025	Capacity Building – GeoSpatial Intelligence using GEE & QGIS	Prof. Mridul Seth, Prof. Rasik Makwana	Flood Control Cell engineers; hands-on training in satellite data & QGIS using Bhuvan & Google Earth Engine	—
3rd Mar 2025	World Engineers Day – Save Water Awareness & Exhibition	Prof. M. S. Seth, Prof. Rasik Makwana	Expert talk by Setu Shah (SuJalam); 80+ participants; poster/model exhibition	SAPTAK Environment Club

External FDP / Workshop Participation

- **Prof. Deepak Upadhyay** – C-Level International Conference on Cyber-Defense & Blockchain (particpante)
- **Prof. Raj Hakani** – Workshops on Artificial Intelligence for Electronics & NavIC Applications
- **Prof. Seema Joshi** – Future Crime Summit 2025 (Cyber-Forensics)
- **Prof. Anamika Mittal** – Industry workshop on Importance of cybersecurity and cyber Psychology in today's world

4. Student & Alumni Achievements

Student / Alumnus	Award / Recognition	Issuer & Date	Significance
Sushilkumar Prakashbhai Dangiya	“Rising Star Award” – Certificate of Recognition	GTU-Alumni Cell, 21 Mar 2025	Honors outstanding contributions & professional excellence; cited as inspiration for the GTU alumni community.
Kathiriya Savan Rajeshbhai (UG Student)	Won 10,000 Price money for second runner up	IDEATHON, National Level Pitchfest 2025	GTU Ventures is celebrating World Creativity and Innovation Day, focussing on AI-ML and Blockchain.

MOOCs & Professional Certifications

Learner	Notable Credentials Completed (Jan – Jun 2025)
Sushilkumar Dangiya (PhD Scholar – EC)	12 micro-credentials from Microsoft Learn & Google Explore CSR series – Generative AI for Youth, Copilot Studio, GitHub for Youth, Navigating Scopus, Science of Happiness, Life Skills, Embracing Continuous Learning: The Key to Personal Growth, of various topics. NPTEL MOOCs – - Research Methodology - Wireless Ad hoc and Sensor Networks
Sejalben Parthav Vyas (PhD Scholar - EC)	- NPTEL MOOCs – - Fundamentals of MIMO Wireless Communication - Spread-Spectrum Communication & Jamming - AICTE Training & Learning (ATAL) Academy Faculty Development Program on “mm Wave Technologies” - ABV-IIITM Gwalior organized program on “AI/ML Application for Net-Generation Wireless Communication” - Three days National Seminar cum Workshop on “Next Generation Networks – Paving the way for 5G and 6G”
Kandarp Vimal Bhatt (B.E. - CE)	- AWS Certified Cloud Practitioner - Kubernetes & Jenkins Foundations (Coursera)
Pathan Shahad (M.E. - Cyber-Security)	- Cisco Skill-For-All – Email Security - ISP-49 Training Contest (International Services Portal) - National Road Safety Hackathon 2025
Vishwas Rukal (M.E. - Civil)	Participated in various webinar offered by Dlubal Software company
Nandani Rajesh Jaiswal & Senjaliya Drashti Atulbhai	Two days hands-on session on Deep learning using python

Capacity-Building & Club Engagement

Student Leader	Contribution	Event / Club
Sushilkumar Dangiya	Organised 6 FDPs & webinars (VLSI, Research Methodology, IPR, NEP-2020, Research-Paper Writing).	GTU-SET Structural Club & KCG Gujarat collaborative series
Arpita Maheriya (PhD-Civil)	Mentored TechFest-Sport-Cultural Club activities (planning, sponsorship & judging).	SAPTAK Clubs
Dhani Rajkumar Hakani (PhD-IoT)	Coordinated BIS Standards Civil-Engineering Club outreach.	SAPTAK Environment Club

Internships & Industry Engagement

Student	Internship / Engagement	Duration & Mode
Shyama Hadia	Campus Ambassador – E-Cell, IIT Bombay (Upstox × EducationVibes)	Jul – Oct 2025, work-from-home; includes finance-literacy modules & innovation challenges.
Tirthan Kiyada (M.Tech Cyber-Security)	One-month Drone Forensics virtual internship (National Forensic Sciences Lab)	May 2025

5. Institute-Level Events & Campus Activities

Campus Engagements & Social Awareness Events

GTU-SET demonstrated holistic development through impactful activities focused on physical wellness, national service, digital literacy, environmental awareness, and vibrant cultural expression. These events cultivated a sense of responsibility, inclusiveness, and joy among students and faculty alike.

Flagship Events & Outreach

Date	Event	Lead Coordinator(s)	Reach / Highlights
25 Mar 2025	GTU - Code Unnati Innovation Marathon – Final Showcase & Awards	Prof. Raj Hakani, Prof. Anamika Mittal (expert evaluators) Edunet Foundation × SAP	43 student prototypes 18 industry mentors 250+ visitors; Certificates of Excellence conferred to both evaluators.
28 Apr 2025	Design Demo Day – National Technology Week	Prof. Raj Hakani	Exhibited IoT & robotics prototypes to 350 visitors; judged by GTU R&D Council & SSIP.
30 Jun – 04 Jul 2025	“Frontiers of AI in Engineering” FDP + Tech-Expo	Prof. Gautam Makwana	72 faculty, nine GTU institutes; parallel Tech-Expo featured live demos from AI start-ups.
25 Mar 2025	ACPC Admission Awareness Seminar (Std-12 Science)	Prof. Gautam Makwana & Prof. Rasik Makwana	300+ HSC students; sessions by Prof. C. K. Makwana (ACPC) on counselling roadmap.
Feb & Mar 2025	Two-Day Sports & Cultural Fest (SAPTAK Clubs)	SAPTAK Sports & Cultural Cells	Indoor (Chess, TT, Badminton) + outdoor (Kho-Kho, Tug-of-War, Football); 98 student athletes, 24 medals awarded.
07 Feb 2025	Gujarat Sanskrutik Vakrutva Spardha (GSVS-2025)	Prof. Bhavadipkumar Moghariya	State-level oratory contest on cultural heritage; GTU-SET hosted 70 participants.
11 March 2025	One-Day Study Tour to the Heritage Sites of Vadnagar, Gujarat	Prof. Rasik V. Makwana & Prof. Himani Prajapati,	The School of Indian Knowledge Systems (SIKS) has organized a one day study tour to the Heritage Sites of Vadnagar, Gujarat.

SAPTAK Club Highlights

Club	Signature Activity (Jan–Jun 2025)	Coordinator
Environment Club	World Engineers' Day – “Talks on Water-Positive Engineering”; demo of rainwater harvesting models.	Prof. Mridul Seth

NSS / Sports & Professional Achievements

	Achievement	Issuing Body
Prof. Seema Joshi	2-Week Industrial Training “AI on the Cutting Edge: Exploring New Frontier” (Sahana Systems, 12–24 May 2025)	Sahana Systems Ltd., Ahmedabad
Dr. Bhavadip Moghariya & Prof. Rasik Makwana	Organised Thalassemia Camp on 8 April 2025 & represented GTU at GSVS-2025 cultural finals	NSS Cell & State Cultural Dept.
Drashti Senjaliya (UG-CE)	Silver – Women's Badminton (GTU Zonal)	GTU Sports Board
Sushilkumar Dangiya, PhD Research Scholar	Semiconductor & VLSI Design Research Methodology Intellectual-Property Rights NEP-2020 Implementation	AICTE ATAL, KCG Gujarat

Extra-Ordinary Technical Contributions

Activity	Brief Description	Faculty Lead
Standards Quiz Competition (BIS Week)	Quiz on IS codes for civil, computer & electrical students; prizes sponsored by Bureau of Indian Standards.	Sahana Systems Ltd., Ahmedabad
One day Industrial Exposure Visit – Vinayak TMT Bars & BIS Lab Tour (IIT-GN)	46 students; live demo of TMT rolling & metallurgical testing.	Prof. Mridul Seth & Prof. Rasik Makwana

Digital Awareness & Cyber Security

Event Title	Date	Coordinator(s)	Highlights
Digital Forensics Awareness	03 April 2025	Prof. Deepak Upadhyay	Cybercrime trends, phishing awareness, 65+ participants.
Cyber Awareness: Role of Parents	02 July 2025		Addressed digital frauds, cyber safety tips for guardians.
Cyber Quiz Activity			Reinforced digital safety through interactive quiz.

Safety & Health Awareness

Event Title	Date	Coordinator(s)	Highlights
Fire Safety Drill & Awareness	28 March 2025	NSS: Jasmin Sarvadiya, Ahire Prem	Fire extinguisher use, mock drill, 110+ participants.

Environment & Water Consciousness

Event Title	Date	Coordinator(s)	Highlights
AatmaNEERBhar + SAVE WATER Exhibition	03 March 2025	Prof. Mridul Seth, Prof. Rasik Makwana	Talk by Setu Shah; models/posters on water reuse; 50+ participants.



National Spirit & Civic Engagement

Event Title	Date	Coordinator(s)	Highlights
Armed Forces Flag Day Collection	27 February 2025	Dr. Bhavadip Moghariya	₹8011 collected; sent to AFFD, Ahmedabad.
Gujarat Sanskrutik Vakrutva Spardha	07 February 2025		Cultural elocution contest; winner advanced to zonal level.

Physical & Mental Well-being

Event Title	Date	Coordinator(s)	Highlights
International Yoga Day	19 June 2025	Dr. Bhavadip Moghariya	Led by Gujarat Yog Board; yoga, breathing, meditation; 10+ faculty/staff attended.

Cultural Celebration

Event Title	Dates	Lead Coordinators	Highlights
Fusion Fest: Group Day, Character Day, Aakriti	10 – 12 Feb 2025	Prof. Komal Prajapati, Dr. Kaushik Gondaliya Dr. Bhavadip Moghariya	Ethnic ramp walk, quizzes, classical dance, jam sessions with faculty.

Sports & Fitness

Event Title	Dates	Faculty Coordinator	Highlights
UDGHOSH 2.0 – Annual Sports Fest	14–15 Feb 2025	Dr. Bhavadip Moghariya	Cricket, Football, Basketball, Tug-of-War, TT, Carrom, Chess, 100+ players.

8. Internship & Research Guidance

Research Guidance

Reporting Mentor / Intern	Discipline	Internship Focus	Duration / Mode
Prof. Raj Arvindkumar Hakani	IoT	SSIP-supported product-prototyping internships (on-campus)	Summer 2025
Prof. Dipak Dabhi	Cyber-Security	Industry attachment in AI-driven edge & quantum computing labs	May–Jun 2025
Prof. Sanjiv K. Shakya	Computer Engineering	Technical internship in AI-based transformer health monitoring	Apr–May 2025
Shyama Hadia (B.Tech CE- 231370107011)	Student	Campus Ambassador remote internship – E-Cell, IIT-Bombay (Upstox)	Jul–Oct 2025

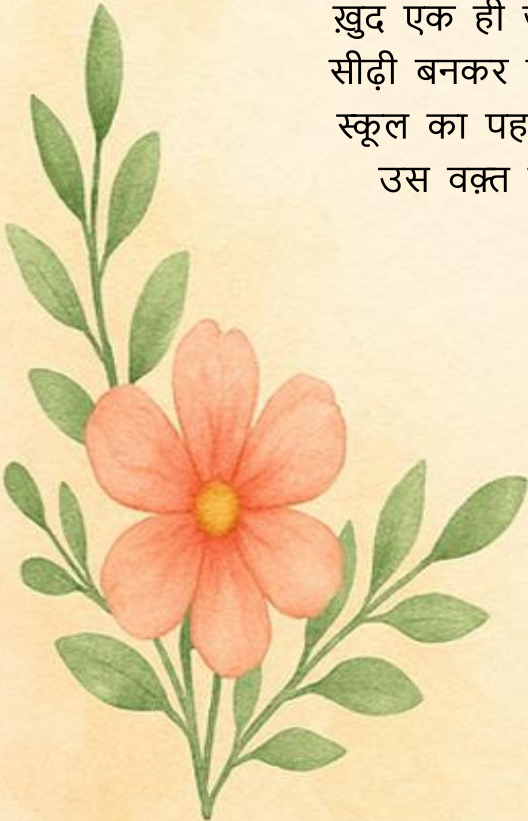
Internships Reported (Jan – Jun 2025)

Sr. No.	Program	Enrollment No.	Duration / Mode	Company/Organization
01	PG-CS	231370759006	Dama Nimisha	Heritage Cyber World
02		231370759008	David Toluwani Ehigie	Heritage Cyber World
03		231370759013	Pathak Vidhi Darshankumar	Heritage Cyber World
04		231370759015	Patel Prilantee Rajendrabhai	Information and Library Network Center
05		231370107011	Shyama Hadia	Indrav (Flutter App Developer Internship, Jul–Sep 2025)
06	PG-AIDS	231370795009	Karnav Sanjaykumar Modi	ISRO, Ahmedabad
07		231370795012	Mevada Urmilkumar Prakashchandra	ISRO, Ahmedabad
08		231370795019	Vibha Kumari	ISRO, Ahmedabad
09	PGDDS	241370680008	Ameel Patel	Maxgen Technology Pvt. Ltd.
10	PG-Civil	231370720002	Boda Jayen	Bhoomi Consultant
11		231370720009	Smith Modh	Torsion Engineers & Consultants LLP
12		231370720018	Suthar Deep	SETU Infrastructure
13		231370720016	Singh Roshan Anshu S.	Intertia Infracon

कभी डाँटा, कभी दुलारा — पर हमेशा सँवारा

स्कूल का पहला और आखिरी दिन हर बच्चे रोए हैं,
उस वक़्त उन्हें गले लगाने टीचर ही आए हैं...
हर पल साथ रहकर उन्होंने गिरने से बचाया है,
खुद की तकलीफ़ भूलकर हमें सही रास्ता दिखाया है...
हमारे बेवजह हँसने पर उन्होंने डाँट लगाई है,
हमारे रोने पर सहारा देने वही आए हैं...
चीज़ें समझ न आने पर हर वक़्त सिखाया है,
किताबों के साथ-साथ ज़िंदगी जीना भी बताया है...
कभी-कभी अपनी ज़िंदगी की बातें कहकर हमें हँसाया है,
साथ-साथ कुछ सिखाया भी है...
हमारी ग़लती पर टीचर बनकर गुस्सा किया है,
दोस्त बनकर हमारे साथ खेले भी हैं...
एग्जाम के रूल्स के साथ-साथ ज़िंदगी के रूल्स भी उन्होंने सिखाए हैं,
माँ-बाप के बाद वही हैं जो हमें आगे बढ़ते देखना चाहते हैं...
खुद एक ही जगह रहकर वो कई कोहिनूर बनाते हैं,
सीढ़ी बनकर वो हमारी , हमें ऊँचाई पर पहुंचाते हैं...
स्कूल का पहला और आखिरी दिन हर बच्चे रोए हैं,
उस वक़्त उन्हें गले लगाने टीचर ही आए हैं...

- Prachi Amin
(231370107002)
5th Sem CE



New Arrival @ Central Library



Why "KANASH"?

"Expressing a gratitude to the all stakeholders of GTU-SET"

K : Knowledge

A : Achievement

N : Nurturing

A : Acknowledgement

S : Sustainability

H : Happiness

News Letter Committee:

Prof. (Dr.) Jignesh A. Amin, Professor, GTU-SET, Chairperson

Prof. Sarman Hadia, Associate Professor, GTU-SET, Editorial Board Member

Prof. Gautam Makwana, Associate Professor, GTU-SET, Editorial Board Member

Prof. Komal Borisagar, Associate Professor, GTU-SET, Editorial Board Member

Prof. Komal Prajapati Assistant Professor, GTU-SET, Editorial Board Member

Prof. Kaushik Gondaliya, Assistant Professor, GTU-SET, Editorial Board Member

(1) M.E. – Computer Engineering

(Cyber Security)

AICTE Approved

Duration: 02 Years

Intake: 30

Inception Year: 2017

(2) Post Graduate Diploma in Data Science

Duration: 01 Year

Intake: 30

Inception Year: 2020

(3) M.E. – Computer Engineering

(Internet of Things)

AICTE Approved

Duration: 02 Years

Intake: 18

Inception Year: 2021

(4) M.E. – Computer Engineering

(Artificial Intelligence and Data Science)

AICTE Approved

Duration: 02 Years

Intake: 18

Inception Year: 2022

(5) M.E. – Civil Engineering (Structural Engineering)

AICTE Approved

Duration: 02 Year

Intake: 18

Inception Year: 2022

(6) B.E. – Computer Engineering

Duration: 04 Years

Intake: 60

Inception Year: 2023

(7) B.E. – Electronics & Communication

Duration: 04 Years

Intake: 30

Inception Year: 2024

(8) M.E. – VLSI Design

AICTE Approved

Duration: 02 Year

Intake: 18

Inception Year: 2025

GUJARAT TECHNOLOGICAL UNIVERSITY
SCHOOL OF ENGINEERING AND TECHNOLOGY
(University Managed Engineering Department)

Academic Block 5, GTU Chandkheda Campus, Near Visat Three Cross Road,
Chandkheda, Ahmedabad, Gujarat 382424

Website: www.set.gtu.ac.in

Email: gtugset@gtu.edu.in