



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

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Message from GTU-SET Head

It gives me immense satisfaction to present this edition of KANASH Newsletter Volume – VI (II), reflecting the academic, research, and institutional progress achieved at the GTU – School of Engineering and Technology (GTU-SET) over the preceding semester. This period has been distinguished by sustained scholarly endeavour, enhanced research productivity, and substantive engagement with industry, governmental institutions, and professional organizations.



The faculty members at GTU-SET have maintained a commendable trajectory of scholarly contribution through the dissemination of research in reputed Scopus and Web of Science indexed journals, active participation in national and international conferences, execution of sponsored research projects, and generation of intellectual property. Their contributions extend beyond research to include service as resource persons, peer reviewers, and academic mentors-roles that collectively reinforce the institutional standing of GTU-SET as a centre of academic rigor and applied scholarship.

Our students have exhibited exemplary dedication to technical excellence, innovation, and professional development. Their engagement in national-level competitive events, professional certification programs, industrial internships, SAPTAK club initiatives, and community service projects reflects a holistic institutional approach that balances disciplinary competence with leadership development and civic responsibility.

Looking ahead, our institutional priorities remain centred on deepening research impact, promoting interdisciplinary scholarship, strengthening industry-academia collaboration, and cultivating engineers who are not only technically proficient but also ethically grounded and globally responsive. I encourage readers to examine the accomplishments documented in these pages and to continue their association with our collective endeavour toward institutional and academic distinction.

Dr. Jignesh A. Amin
Professor & Head
GTU – School of Engineering and Technology

IMPORTANT HIGHLIGHTS & MAJOR EVENTS at GTU-SET

International Conference on Frontiers of Engineering in Healthcare (FEH-2025)

Dates: 10–12 December 2025

Venues:

- IIT Gandhinagar (Days 1 & 2)
- Gujarat Technological University, Ahmedabad (Day 3)

Jointly Organized by: Gujarat Technological University (GTU) and Indian Institute of Technology Gandhinagar (IIT GN)

Gujarat Technological University (GTU), in collaboration with IIT Gandhinagar, successfully organized the International Conference on Frontiers of Engineering and Healthcare (FEH-2025) from 10 to 12 December 2025. The conference served as a high-impact interdisciplinary platform bringing together engineers, healthcare researchers, clinicians, academicians, and industry professionals to deliberate on emerging technologies at the interface of engineering, healthcare, and life sciences. The conference commenced with a formal inaugural ceremony graced by eminent dignitaries, including Dr. Krishna Rajan (SUNY Buffalo, USA) as Chief Guest, Dr. Rajul Gajjar, Hon'ble Vice Chancellor, GTU, senior administrators from GTU and IIT Gandhinagar, and distinguished academic leaders. The inaugural addresses emphasized ANRF-driven collaborative research, interdisciplinary innovation, AI-enabled healthcare systems, environmental challenges, and the integration of traditional knowledge with advanced engineering solutions. Over three days, the conference featured parallel technical sessions, keynote lectures, industry talks, and poster presentations covering a wide thematic spectrum:

- Industry-relevant healthcare research
- Plant sciences and healthcare technologies
- Biomaterials and disease applications
- AI and digital twins in healthcare
- Core and advanced technologies in biomedical sciences

Renowned speakers from premier institutions in India and abroad delivered expert lectures, fostering rigorous academic discussions and cross-disciplinary collaboration. Dedicated sessions for students and industry professionals provided young researchers a valuable platform for scientific exchange and mentorship. A vibrant poster presentation session showcased innovative research ideas and prototypes, encouraging direct interaction with experts and strengthening research visibility. The final day at GTU Ahmedabad included campus visits, interaction with the Honourable Vice Chancellor madam, Dr. Rajul K. Gajjar, and advanced technical sessions on emerging biomedical trends and healthcare technologies. These interactions reinforced institutional collaboration and future research partnerships. The conference concluded with a valedictory ceremony, Best Poster Awards, and reflections from senior academicians and industry leaders. Emphasis was placed on research translation,

commercialization, inclusivity (notably ~35% female participation), and converting academic research into scalable societal solutions. The event featured 86 poster presentations, with 56 registered participants, and included insightful sessions delivered by 70 expert speakers. It also witnessed active representation from both national and international institutions, highlighting its broad academic and professional reach.

FEH-2025 successfully bridged engineering innovation and healthcare applications, reinforcing GTU's commitment to interdisciplinary research, global collaboration, and societal impact. The conference provided a strong foundation for future joint initiatives, translational research, and technology-driven healthcare solutions.



Global Initiative of Academic Networks (GIAN) Programme

Program Title: “Artificial Intelligence and Machine Learning Algorithms: A Comprehensive Study”

Duration : 15 - 19 September 2025

Mode: Offline

Venue: Gujarat Technological University, Ahmedabad

Instructor(s): Dr. Gautam Makwana & Prof. Anu A. Gokhale

The GIAN course was inaugurated on 15th September 2025 in the presence of Prof. (Dr.) Rajul Gajjar, Hon'ble Vice Chancellor, GTU, Prof. Anil Bhardwaj, Director, Physical Research Laboratory (PRL), Ahmedabad, Prof. Anuradha Gokhale, Professor, Saint Augustine's University, USA, Dr. R. A. Thakker, Director, RDC, GTU and (Dr.) J. A. Amin, Professor & Head, GTU-SET. The GIAN course is conducted jointly by Prof. Gautam D. Makwana, and Prof. Anu. A. Gokhale, Professor, Saint Augustine's University, USA and delivered 20 lectures. The course covered evaluation of Artificial Intelligence, various Machine Learning algorithms and their applications, and the role of AI across different domains along with associated challenges. It also addressed AI frameworks, social impacts, and research studies related to AI and ML algorithms. Applications of AI and ML in computer networks, software safety, biometrics, education, and business were discussed in detail, along with the role of Large Language Models in AI/ML and the fundamentals of Deep Learning. The program emphasized critical analysis of AI system outcomes, assessment and synthesis of AI/ML applications, and research paradigms and frameworks in AI, ML, Data Analytics, and allied technologies. Advanced topics such as Generative AI, Quantum Computing, AI mechanisms applicable to research work, and global AI legislation were also included. Practical use cases focused on AI in disease prediction and detection as well as AI for waste management in smart cities. The course further explored advanced developments in AI and ML across various fields, followed by a comprehensive review, assessment, and feedback session. GTU received around 250 registrations from institutions including IIT Patna, IIT Madras, Mandsaur University, MGM's Institute of Bioscience and Technology, Babasaheb Bhimrao Ambedkar University Lucknow, MSU Vadodara, IITRAM, Uka Tarsadia University, Junagadh Agricultural University, GITAM University Bengaluru, IRMA Anand, and affiliated colleges of GTU. More than 70 participants, including faculty members, Ph.D. scholars, postgraduate scholars, and undergraduate students, actively participated in the GIAN course.



Five-Day Short Term Training Program (STTP)

Title: “Advanced Structural Engineering: Hands-On Software Applications from Classroom to Construction”

Dates: 15–19 September 2025

Venue: Swami Vivekananda Conference Room, GTU-SET, Ahmedabad.

Organized by: Department of Civil (Structural) Engineering, GTU-SET

Participants: 30 (Faculty members, PG students, PhD scholars)

GTU-SET successfully organized a five-day STTP aimed to bridge the gap between theoretical structural engineering concepts and their real-world applications. The program provided in-depth exposure to advanced analysis, modelling, and design practices using industry-relevant software such as SAP2000, MATLAB, and MIDAS Civil. Emerging themes including AI/ML-enabled digital twins, nonlinear structural analysis, and sustainability-driven low-carbon solutions were emphasized. The program featured expert-led lectures, hands-on sessions, case studies, and an industrial visit, fostering interdisciplinary learning and strengthening academia–industry linkage.

Key Outcomes:

- Enhanced understanding of linear and nonlinear structural analysis
- Practical exposure to professional software tools
- Integration of AI/ML concepts in structural engineering
- Improved industry readiness of participants



AIU-AADC Sponsored FDP

Title: “Next Gen of Design, Manufacturing, Packaging Semiconductor Technologies”

Duration : 30th June to 04th July 2025

Mode: Online

Venue: GTU - School of Engineering and Technology

Organized Under: AIU-AADC

The objectives of the FDP were:

- To introduce participants to advanced semiconductor process technologies and digital design methodologies
- To build foundational and advanced understanding of ASIC and high-voltage chip design
- To cover emerging topics including AI/ML applications in VLSI, neuromorphic and spintronic devices
- To familiarize participants with modern EDA tools such as Cadence Modus for DFT and ATPG

Faculty members and Ph.D. scholars from various institutes across India actively participated in this FDP. In the FDP, there are 155 candidates who are registered from reputed universities/institutes of Gujarat, Maharashtra, Madhya Pradesh, Rajasthan, Bihar, and Delhi. The following experts are invited to deliver sessions, Prof. R. A. Thakker, Director, RDC, GTU, Prof. Pradeep Dixit, Associate Professor, IIT Bombay, Prof. Nihar Mohapatra, Professor, IIT Gandhinagar, Prof. Bhagwati Prasad, Asst. Professor, IISc, Bengaluru, Prof. Anand Darji, Professor, SVNIT, Surat, Prof. Vivek Garg, Asst. Professor, SVNIT Surat, Prof. Ritu Parekh, Associate Professor, Dhirubhai Ambani University, Mr. Parthav Vyas, Director, Scaledge India Pvt. Ltd., Ahmedabad, Dr. Nikunj Tahilramani, Sr. Data Scientist, Data Sentinel Inc, Mr. Akash Verma, Sr. Engineer, Microcircuits Innovations Pvt. Ltd, (11) Mr. Nirmal Patel, Director, Microcircuits Innovations Pvt. Ltd, Mr. Sanjay G. S. Field Application Engineers, Entuple Technologies Pvt. Ltd., Bengaluru.

Diwali Celebration at GTU-SET

Dates: 16th Oct 2025

Organized by: Gujarat Technological University

Events:

Rangoli Making and Diya Decoration, showcasing their artistic skills and cultural creativity. The celebration concluded with an exciting Diwali-themed Treasure Hunt. Diwali Fest 2k25 at the School of Engineering and Technology, Gujarat Technological University, was celebrated with great enthusiasm and festive spirit. It was started with aarti of goddess Saraswati and Laxmi. Students actively participated in creative competitions like Rangoli Making and Diya Decoration, showcasing their artistic skills and cultural creativity. The celebration concluded with an exciting Diwali-themed Treasure Hunt, which encouraged teamwork, problem-solving, and fun-filled engagement. The event beautifully reflects the joy, traditions, and unity associated with the festival of Diwali. Entire event is organised by UG sem-3rd students and co-ordinated by Dr. Bhavadip Moghariya and Prof. Komal Prajapati.



ACADEMIC & RESEARCH CONTRIBUTIONS

Journals (Scopus/WoS/IEEE)

1. Bhalani, D., Gondaliya, K. & Amin, J. Seismic vulnerability and fragility assessment of elevated water tanks with diverse staging frame patterns. *Innov. Infrastruct. Solut.* 10, 341 (2025).
<https://doi.org/10.1007/s41062-025-02140-5>
2. Gondaliya, K. M., Tsavdaridis, K. D., Raval, A., Amin, J. A., & Borisagar, K. (2025). Attention-Enhanced Progressive Transfer Learning for Scalable Seismic Vulnerability Assessment of RC Frame Buildings. *Buildings*, 15(23), 4383.
<https://doi.org/10.3390/buildings15234383>
3. RC, B., Rani, V., Shirkol, A.I. et al. (2025). Yielding brace system as a next-generation lateral load mechanism for seismic resilient cities. *Scientific Report* 15, 42394.
<https://doi.org/10.1038/s41598-025-26603-y>
4. Deepak Upadhyay, & Hiteishi Diwanji (2025). A Novel Energy-Efficient Approach to Detect and Mitigate RPL Routing Attacks in IoT Network. *Reliability: Theory & Applications*, 20(3(86)), 999-1013.
<https://doi.org/10.24412/1932-2321-2025-386-999-1013>
5. Modi, D., & Mahajan, S. (2025). Multimodal deep learning framework for Alzheimer's disease classification using MRI scans and clinical records. *International Journal of Computational and Experimental Science and Engineering*, 10(4), 1939–1946.
<https://doi.org/10.22399/ijcesen.3672>
6. Patel, J., Patel, D., & Raval, A. S. (2025). Artificial intelligence for predictive modeling in CRISPR/Cas9 gene editing: A survey of methods and design strategies. *The Journal of Gene Medicine*, 27(12), e70061.
<https://doi.org/10.1002/jgm.70061>

7. Upadhyay, D., & Diwanji, H. (2025). A HYBRID APPROACH FOR DETECTION AND MITIGATION OF ROUTING ATTACKS IN RPL USING DEEP LEARNING. *Reliability: Theory & Applications*, 20(4), 479-493.
<https://doi.org/10.24412/1932-2321-2025-489-479-493>
8. Hakani, R., Rawat, A., & Prajapati, M. (2025). Comparative analysis of GNSS module performance in static and UAV-based dynamic environments. *Acta Geophysica*, 74(1).
<https://doi.org/10.1007/s11600-025-01757-5>
9. Hakani, R., & others. (2025). Brain tumor classification using pre-trained convolutional neural networks and a neural network classification head. In *Proceedings of the International Conference on Machine Learning and Data Engineering (ICMLDE-2025)*. *Procedia Computer Science*. Elsevier.
10. Hakani, R. (2025). Enhancing UAV safety through battery health monitoring and flight log-based crash diagnostics. *IEEE Sensor Review*. IEEE.
<https://doi.org/10.1109/SR.2025.3597582>
11. Hakani, R., & Rawat, A. (2025). Geomagnetic storm effects on Indian Regional Navigation Satellite System (NavIC) performance. In *Proceedings of the IEEE Space, Aerospace and Defence Conference (SPACE 2025)*, (pp. 1–6). IEEE.
<https://doi.org/10.1109/SPACE65882.2025.11171007>
12. Joshi, S. B., Kumar K, M., Patel, P. R., & Prakash, G. (2025). Enhancing browser security to mitigate web-borne threats to server-side injection attacks. *Indian Journal of Natural Sciences*, 16(91), 98662–98678.
<https://doi.org/10.14445/22315381/IJETT-V72I7P13>
13. Suthar, A., Patel, V., Jitia, D., & Pareek, A. (2025, March). Machine Learning-Based Classifier Synthetic Minority Oversampling Technique for Breast Cancer Detection. In *International Conference on AI Systems and Sustainable Technologies* (pp. 255-267).
3. Hakani, R., et al. (2025, December). Comparative study of NavIC and GPS for real-time drone navigation. In *Proceedings of the IEEE Microwaves, Antennas, and Propagation Conference (MAPCON 2025)*. IEEE.

Published Book-chapters

1. Gondaliya, K., Vasanwala, S., Desai, A., Amin, J. (2025). Design Optimization of Indian Code-Compliant RC Frames. In: Kondraivendhan, B., Vasanwala, S.A., Patel, I.N., Alengaram, U.J. (eds) *Recent Advances in Structural Engineering—Vol. 3. RAISE 2024. Lecture Notes in Civil Engineering*, vol 690. Springer, Singapore.
https://doi.org/10.1007/978-981-96-8834-0_3
2. Vadhvani, D., Kharvar, A., Dabhi, D. (2026). A Rigorous Comparative Assessment of Feature Selection Techniques for Forecasting Road Traffic Accident Severity. In: Rao, R.V., Taler, J., Taler, D. (eds) *Advanced Engineering Optimization Through Intelligent Techniques. AEOTIT 2024. Lecture Notes in Electrical Engineering*, vol 1438. Springer, Singapore.
https://doi.org/10.1007/978-981-96-8070-2_26
3. Maheriya, A., Panchal, S., Raval, A., & Borisagar, K. (2025). Bridging the gap: XAI for trustworthy AI-powered medical imaging. In *Clinical Imaging Diagnosis: Data-Driven Techniques, Analytical Frameworks and Practical Applications* (p.242). Cambridge Scholars Publishing.
4. Raval, A., Oza, R. (2025). Advancing AI with Quantum Computing: Synergies Between Quantum Neural Networks and Quantum Reinforcement Learning. In: Ghosh, A., Dutta, S., Das, A.K., Shukla, V.K., Moreira, F. (eds) *Quantum Machine Learning in Industrial Automation. Information Systems Engineering and Management*, vol 65. Springer, Cham.
https://doi.org/10.1007/978-3-031-99786-0_14
5. Hakani, D., & Hakani, R. (2025). Real-time traffic control system for emergency vehicles using deep learning method. In *Metaheuristics in engineering applications* (pp. xx–xx). Taylor & Francis.
<https://doi.org/10.1201/9781003561484-9>
6. Suthar, A., Patel, V., Jitia, D., Pareek, A. (2026). Machine Learning-Based Classifier Synthetic Minority Oversampling Technique for Breast Cancer Detection. In: Jain, A., Polkowski, Z., Babo, R., Sharma, N. (eds) *Proceedings of International Conference on AI Systems and Sustainable Technologies. ASSET 2025. Lecture Notes in Networks and Systems*, vol 1580. Springer, Singapore.
https://doi.org/10.1007/978-981-95-0629-3_19

CONFERENCES

Paper Presented

1. Vaishnavi Solanki, Disha Bhatt (November 2025). Adversarial Attacks in Deep Learning: A Review and Future Directions. 5th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS-2025) at RVS Technical Campus, Coimbatore. *Proceedings: IEEE Xplore*.
2. Gondaliya, K., & Amin, J. (December 2025). Seismic Vulnerability Assessment of Healthcare Infrastructure Designed as per Indian Standards: A Capacity Spectrum Approach. *International Conference on Frontiers of Engineering in Healthcare (FEH-2025)* at IIT Gandhinagar, 2025.

7. Sharma, N.K., Hakani, R., Thaker, J., Patel, A. (2026). Ergonomic Smart Gloves for Real-Time WMSD Prevention and Workplace Safety. In: Hirwani, C.K., Malas, A., Panda, S.K., Naskar, S. (eds) Recent Advances in Engineering Design. RADM 2024. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-96-7011-6_6
8. Patel Dipika, Vadodariya Ghanshyam, Khalid Mehmood, & Mridul Seth. (August 2025). Tracing Terrain Transformations: Sentinel-2 Based LULC Monitoring in the Sabarmati Headwaters (2015–2024). International Conference on Innovations in Smart and Sustainable Infrastructure (ISSI 2.0) at Pandit Deendayal Energy University Gandhinagar.

Patent

Faculty Name	Title	Status
Prof. Rasikkumar V. Makwana	Water-Level Monitoring Device for Irrigation Systems	Filed
	Automated Plant Farming Structure	
Prof. Raj Hakani	Smart Gloves for Real-Time Force Measurement	Granted
	Tissue Paper Dispenser	Granted
	Semi-Autonomous Robot for Stacking Multiple Objects	Filed
	Five-Axis Robotic Arm	Filed
	Smart Vision System for Object Detection with Priority-Based Audio Announcements and Delay-Controller	Published
Prof. Gautam D. Makwana / Sejal Vyas	XGenSim Version 1.0 Wireless 5G/6G Simulator	Filed

Sponsored Research Projects & Grants

Externally Funded Research Project:

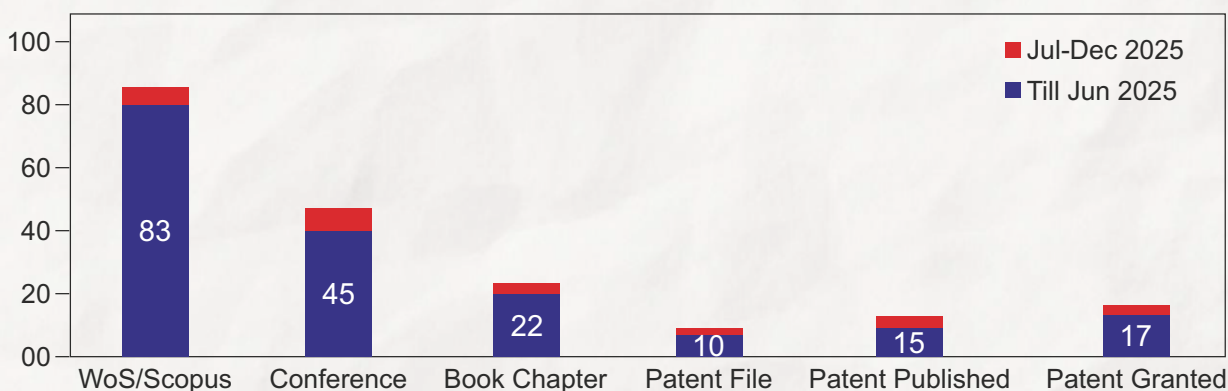
Principal Investigator	Project Title	Duration	Sanctioned Amount	Funding Agency
PI: Dr. S. K. Hadia, Co-PI: Dr. Dipak Dabhi	Design and Development of Comprehensive Research Evaluation Tool for Enhancing Collaborative and Sponsored Research Management	2 Years	₹19,37,816/-	ISRO – RESPOND Programme

Description: The project, approved under the ISRO–RESPOND scheme, aims to develop a comprehensive digital research evaluation and management framework to enhance efficiency in collaborative and sponsored research activities. The project strengthens GTU-SET's capacity in research governance, digital research management, and national-level collaboration with premier scientific agencies.

Faculty Contributions as Reviewers

Faculty Name	Journal Reviewed For (as submitted)
Dr. J. A. Amin	Mechanics of Advanced Materials and Structures; The Structural Design of Tall and Special Buildings (Wiley)
Dr. S. K. Hadia	International Journal of Electronics, as well as Various International Conferences
Prof. Raj Hakani	Bulletin of Electrical Engineering and Informatics, IEEE Conference on <ul style="list-style-type: none"> Data, Energy and Communication Networks Artificial Intelligence, Computer, Data sciences and Applications Emerging Technologies in Electronics and Green Energy Smart Technologies & Systems for Next Generation Computing (ICSTSN 2025)
Dr. Aanal Raval	Journal of Engineering and Applied Science, International Conferences: - icSoftComp2025, IEEE-ICES2025, and IEEE-ICCA 2025.
Dr. Kaushik Gondaliya	Journal of Building Engineering; Engineering Structures (Elsevier); Discover Civil Engineering; Iranian Journal of Science and Technology
Dr. Seema Joshi	<ul style="list-style-type: none"> International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA 2026) International Journal of Advanced Computer Science and Application 4th IEEE International Conference

Summary Table



Category	Till Jun 2025	Jul-Dec 2025	Total
WoS/Scopus Journals	83	14	100
Conference Papers	45	03	48
Book Chapters	22	08	30
Patents Filed	10	05	15
Patents Published	15	01	16
Patents Granted	17	02	19

FACULTY HONORS & ACTIVITIES

Contribution as Resource Person / Professional Contribution

Faculty Name	Event / Program	Topic / Role	Date	Organizing Institution
Dr. Kaushik Gondaliya	Five-Day STTP on Advanced Structural Engineering	Expert Session on Nonlinear Static Pushover Analysis using SAP2000	15–19 Sept 2025	GTU-SET
	One-Day Workshop on Structural Evaluation Techniques	Expert Speaker – Seismic Performance Evaluation of RC Frames	12 Aug 2025	GTU-SET
Prof. Rasik Makwana	Five-Day STTP on Advanced Structural Engineering	Lecture delivered on “AI & ML-Enabled Digital Twins in Civil (Structural) Engineering – Future Scope”	16 Sept 2025	GTU-SET
	Expert Lecture	Extraction and Analysis of Digital Evidence with Case Study	21 Nov 2025	National Forensic Sciences University (NFSU)
Prof. Deepak Upadhyay	Letter of appreciation for delivering a lecture (International) at the Australian Institute of Advanced Technologies (AIAT), Adelaide	Lecture delivered on “Innovation and Entrepreneurship with a Case Study on Cyber Security”	14 Aug 2025	Australian Institute of Advanced Technologies (AIAT), Adelaide, Australia
Dr. Raj Hakani	Expert Session	IoT Systems and Smart Solutions with Arduino	19 Dec 2025	Indus University
	Expert Talk	LaTeX for Report Writing	19 Nov 2025	GTU-SET
	Expert Session	Entrepreneurship & Innovation as career opportunities	27 Nov 2025	Vishwakarma Government Engineering College
Prof. Seema Joshi	Plenary Talk	“मानसिक तनाव का स्वास्थ्य पर प्रभाव”	22 Sept 2025	NCCS
	Expert Talk	Empowering women in cybersecurity	17 Dec 2025	Knowledge Consortium of Gujarat
Prof. Mridul Seth	Expert Talk	MATLAB for Matrix Operations	17 Sept 2025	GTU-SET

FACULTY OF AWARDS & RECOGNITIONS

Faculty Name	Award / Recognition	Awarding Organization	Level	Date	Organizing Institution
Dr. Gautam Makwana	Session Chair	IIT Gandhinagar & GTU	National	11 Dec 2025	Served as Session Chair at FEH-2025, contributing to technical moderation and academic quality of conference sessions.
Dr. Kaushik Gondaliya & Prof. (Dr.) Jignesh A. Amin &	Second Runner-Up – National Level Poster Competition (Theme: “AI-Powered Research & Innovation”)	Gujarat Technological University (GTU)	National	19–20 Sept 2025	Awarded for an outstanding research poster presentation, recognizing innovation and research excellence.
Dr. Kaushik Gondaliya	Certificate of Participation & Memento	IIT Gandhinagar & GTU	National	11 Dec 2025	Recognition for the presented academic contribution at FEH-2025 through student/industry interaction and knowledge dissemination.
Prof. Raj A. Hakani	Best Paper Award in the IEEE – SPACE conference, IIT RAM, India	Jointly organised IEEE AESS Bangalore Chapter, and IEEE AP/MTT Bangalore	National	20-23 July 2025	Paper title on “Geomagnetic Storm Effects on Indian Regional Navigation Satellite System (NavIC) Performance”
	Certificate of Appreciation – Top 15 Best Innovation Ambassadors in Gujarat	MoE's Innovation Cell, AICTE & Institutions' Innovation Council (IIC)	State	2025	Recognized for outstanding contribution to promoting an innovation culture and student entrepreneurship in Gujarat.
	Certificate of Appreciation – Mega Tinkering Day 2025	Atal Innovation Mission (AIM), NITI Aayog	National	2025	Appreciated for mentoring and motivating students through hands-on innovation and experiential learning initiatives under AIM.
	Certificate of Appreciation -Regional Mentor of Change	Atal Innovation Mission, NITI Aayog	National	2025	Appreciated for mentoring and motivating students
	Certificate of Appreciation as an Innovation Ambassador	IIC Regional Meet MoE's Innovation Cell	National	2025	Appreciation as an Innovation Ambassador
Prof. Mridul Seth	Certificate of Appreciation as a trainer	Mohanlal Sukhadiya University	National	2025	Awarded with gratitude

FACULTY PROFESSIONAL SERVICE & ACADEMIC RESPONSIBILITIES

Faculty Name	Contribution / Role	Title / Description	Organizing Body	Date
Prof. (Dr.) Jignesh A. Amin & Dr. Kaushik Gondaliya	Contributor – Best Practice Submission selected for upload on NIDM's Knowledge Vertical on Urban Resilience.	Attention-Enhanced Progressive Transfer Learning for Scalable Seismic Vulnerability Assessment of RC Frame Buildings	National Institute of Disaster Management (NIDM), Govt. of India	Dec 2025
Prof. Raj A. Hakani	Appointment – Regional Mentor of Change (RMOC)	Appointed as RMOC to mentor and guide innovation activities across 11 schools in Ahmedabad & Gandhinagar	Atal Innovation Mission (AIM), NITI Aayog	2025-26
	Appointment – GEM Mentor	Appointed as GEM Mentor to support student innovation, creativity and design thinking at the grassroots level	Atal Innovation Mission (AIM), NITI Aayog	12 Aug 2025
	Professional Training / Capacity Building	Completed 30-hour Innovation Ambassador (iA) upskilling training in innovation ecosystem development, design thinking and entrepreneurship	Institutions' Innovation Council (IIC), Ministry of Education	31 Aug 2025

EXTERNAL EXAMINER

Faculty Name	Role	Program Level	Department	University	Year
Dr. Kaushik Gondaliya	External Examiner	PhD	Geoinformatics Department	Gujarat University	2025

FACULTY DEVELOPMENT PROGRAMS (FDPS), TRAINING & CAPACITY BUILDING

Faculty Name	Program / FDP	Duration	Organizing Body
Dr. Dipak Dabhi	AICTE–ATAL FDP on Cyber Threat Intelligence and Defence Mechanisms	27 Oct – 01 Nov 2025	Kaushalya – The Skill University
Dr. Dipak Dabhi, Dr. Dhvani Modi, Prof. Anamika Mittal, Prof. Komal Prajapati	Government Officer Training – Cloud Computing	13–17 Oct 2025	CDAC Noida
Prof. Mridul Seth, Prof. Rasik Makwana	AICTE–ATAL FDP on Artificial Intelligence in Civil Engineering	18–23 Aug 2025	PACE Institute of Technology & Sciences
Prof. Rasik Makwana	UGC–MMTTP (NEP-2020 Orientation & Sensitization)	22–31 July 2025	IIT Kharagpur
	FDP on Advances in Intelligent Civil Engineering (AICE-2025)	10–14 Sept 2025	MITS (Deemed University)
	Online Training on Python Programming & Applications in Water Resources Sector	06–17 Oct 2025	National Water Academy, Pune
	One Day Regional Meet	25 Nov 2025	Entrepreneurship Development Institute of India, Ahmedabad.

Prof. Komal Prajapati	Two-week professional training program on remote sensing AI and GIS for precision agriculture	18 Aug – 1 Sep 2025	Amnax Infotechnologies Pvt. Ltd., Ahmedabad
Dr. Ritisha Bhatt	AICTE–VAANI Workshop on Space & Defence Applications with Advanced Composite Materials (Gujarati)	07–09 Oct 2025	L.D. College of Engineering
	Next generation of Design, manufacturing packaging semiconductor technologies	30 June – 4 July 2025	GTU-SET
Dr. Kaushik Gondaliya	Faculty Development Program on Accelerated Computing & AI	2025	NVIDIA (Faculty Development Program)
Dr. Seema Joshi	3 Days Faculty Development Program on AI Model Development, Multi-Agent System, Enterprise Applications	9 to 11 Sep 2025	GTU – R & D Cells, Ahmedabad
GTU-SET BIS Committee Members	BIS Online Technical Sessions (AI, IoT, Cloud Computing, Information Security)	Oct–Dec 2025	Bureau of Indian Standards
GTU-SET Faculties	CAWACH Webinars (Cyber Drill, LLM Injection & Bias, Phishing & Malware)	2025	Govt. of Gujarat – CAWACH Kendra

FDP / STTP / WORKSHOP / EXPERT SESSION COORDINATED AT GTU-SET

Activity Type	Title/ Theme	Date(s)	Venue /Mode	Coordinator(s) /Organizer	Participation	Key Outcome /Focus
Workshop	One-Day Workshop on Structural Evaluation Techniques (NDT + Pushover Analysis)	12 Aug 2025	Lab 330, Block-5, GTU-SET, Chandkheda	Dept. of (Structural) Engineering, GTU-SET	23	Hands-on training on rebound hammer testing and seismic performance evaluation using SAP2000.
Expert Talk	“Urban and Infrastructure Resilience: Concept and Methodology” (Speaker: Dr. Zaishang Li, UCL)	03 Sep 2025	Online (Google Meet)	Dr. K. M. Gondaliya	30	Research perspectives on resilience frameworks and computational approaches for urban systems.
Research Talk / Expert Session	Research Talk on Structural Health Monitoring (SHM) (Expert: Mr. Rohit Gogna, CEO, SPPL)	25 Aug 2025	Online (students attended from Conference Hall, GTU-SET)	Prof. M. S. Seth	27	SHM fundamentals, NDT/sensor applications, real case studies; career pathways and industry interface.
Awareness Program / Seminar	Anti-Ragging Awareness Session (Anti-Ragging Day & Week)	Aug 2025	GTU-SET	Prof. Rasik Makwana, Dr. Bhavdip Moghariya	100	Awareness of anti-ragging regulations, student responsibilities, and online undertaking procedures.

Expert Session	“LaTeX for Report Writing” (Expert: Dr. Raj Hakani, Asst. Prof., GTU-SET)	19 Nov 2025	Lab-330, GTU-SET	Prof. Mridul Seth	19	Strengthened thesis/paper writing workflow: templates, packages, figures/tables, references/citations.
		24 Nov 2025	VLSI Lab-202, GTU-SET	Dr. Ami Ghelani	18	
Awareness / Seminar	Online POSH Awareness Session (POSH Act 2013 & SHe-Box Portal; Resource: Dr. Manisha Vaja)	20 Dec 2025	Online, Organized by GTU-SET	Prof. Anamika Mittal	79	Campus-wide sensitization on workplace ethics, ICC roles, grievance redressal, and compliance.
Pre-Placement / Expert Session	Aptitude Test Preparation (Expert: Mr. Rahul Patira)	17 July 2025 & 31 Jul 2025	GTU-SET	Dr. G. D. Makwana	55	Quant/logical reasoning techniques for placement exams; targeted multi-program audience.
Awareness Program / Seminar	Celebrating 5 Years of NEP 2020 (Awareness session + quiz)	30 Jul 2025	Aryabhata Seminar Hall, GTU-SET	Prof. Anamika Mittal, Dr. Kaushik M. Gondaliya	77	NEP reforms awareness and Indian Knowledge Systems integration; student engagement through quiz.
Conclave	SAARTHI Conclave 2025 for NEP Implementation	22–23 Sep 2025	GTU	Prof. Rasik Makwana	—	Student participation in various Cultural and Academic Activities
Internship Coordinators	Climate Change and Environmental Sustainability using Remote Sensing and GIS	2 – 15 July 2025	Lab - , GTU-SET	Prof. Rasik Makwana & Prof. Mridul Seth	01	Training on climate change and environmental sustainability using remote sensing and GIS
Internship Coordinators	RTL to GDS-II: From Silicon to Design	16 – 26 June 2025	GTU – SET	Prof. Gautam D. Makwana Prof. Parth M. Chauhan	67	Hands-on training in industry-standard VLSI workflows—gaining practical insights into the entire ASIC design cycle from RTL coding to GDS-II handoff.

Expert Session	Skill enhancement session	18 November 2025 & 25 November 2025	GTU – SET	Dr. Seema B. Joshi	—	Hands-on Cyber Defence: Vulnerability Analysis and Secure OS Hardening
FDP	Basics of AI, Cloud and Security for Multidisciplinary Applications	6th – 10th Oct 2025	GTU – SET	Dr. Komal Borisagar, Dr. Aanal Raval	40	Introduced foundational concepts of AI, Cloud Computing, & Cybersecurity

PARTICIPATION IN STATE/NATIONAL/INTERNATIONAL EVENTS

Faculty Name	Event	Date	Venue / Organizer
Dr. J. A. Amin, Dr. S. K. Hadia, Dr. Gautam Makwana, Dr. Komal Borisagar, Dr. Kaushik Gondaliya, Prof. Komal Prajapati, Sushilkumar Dangiya, Sejal Vyas	FEH-2025: Frontiers of Engineering in Healthcare	10–12 Dec 2025	IIT Gandhinagar & GTU
Dr. Dhvani Modi	The Regional AI Impact Conference / Pre-Summit on AI for Good Governance	12 Dec 2025	Mahatma Mandir, Gandhinagar · Organized by IndiaAI Mission (MeitY) in partnership with Government of Gujarat and Indian Institute of Technology Gandhinagar
Dr. Kaushik Gondaliya	1st Comprehensive Course on Disaster Risk Management	21 Jul – 01 August 2025	National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Govt. of India
	One-day National Seminar on “Advancement in Geotechnical Engineering for Deep Excavations and Tall Structures”	30 Aug 2025	Indian Geotechnical Society, Ahmedabad Chapter and Faculty of Technology, CEPT University, Ahmedabad
Department of Civil (Structural) Engineering, GTU-SET	Conference on Major Infrastructure Projects in India	02 Dec 2025	CEPT University, Ahmedabad
Dr. Dipak Dabhi	Workshop for Mentors of BIS Student Chapters from MoU Partner Institutes	30 Jul 2025	Bureau of Indian Standards (BIS) · Conducted at National Institute of Training for Standardization, Noida
Prof. Rasik Makwana	Faculty Development Programme on Advances in Intelligent Civil Engineering (AICE-2025)	10–14 Sept 2025	MITS (Deemed to be University)
Prof. Raj Hakani	IMECE India 2025	10 – 13 Sept 2025	ASME India Pvt. Ltd.
	One week capacity Building program “Satellite communication and satellite navigation: Technologies and Applications”	10 – 14 Nov 2025	North Eastern Space Applications Centre (NESAC)

Dr. Gautam Makwana	Science Communication Conference on Public understanding of Quantum Science & Technology	22 – 23 Dec 2025	GUJCOST, Department of Science & Technology, Government of Gujarat.
Dr. Dipak Dabhi, Dr. K. M. Gondaliya, Prof. Komal Prajapati, Prof. Anamika Mittal, Prof. Disha Bhatt Prof. Dhvani Modi	3-day FDP on AI Model development multiagent system and enterprise applications	9 – 11 Sept 2025	Global Inforventure Pvt Ltd., NVIDIA and RDC, GTU
Dr. Dipak Dabhi, Dr. K. M. Gondaliya, Prof. Komal Prajapati, Prof. Anamika Mittal, Prof. Disha Bhatt Prof. Dhvani Modi	3-day FDP on AI Model development multiagent system and enterprise applications	9 – 11 Sept 2025	Global Inforventure Pvt Ltd., NVIDIA and RDC, GTU
GTU-SET Faculty Members	Patriotic Youth Ambassador induction	Nov 2025	Founder and National President, Veterans India
Dr. Gautam Makwana	Ibrant Gujarat Regional Conference	2025	Vibrant Gujarat Regional Conference
Dr. Gautam Makwana, Dr. Komal Borisagar, Dr. Aanal Raval, Dr. Sharman K. Hadia, Prof. Rasik Makwana	Bharat Innovates 2026 National Basecamp	18 – 20 Dec 2025	IIT - Gandhinagar
Dr. Seema Joshi	Public understanding of quantum science& technology	22– 23 Dec 2025	GUJCOST Department of Science & Technology, Government of Gujarat
	Quantum Computing: Principles, Algorithms and Applications	29 Dec 2025 to 2 Jan 2026	Computer Science and Engineering Department, Vidush Somany Institute of Technology and Research, Kadi
	PARAM SHAVAK Supercomputer Meet	10 Dec 2025	Manipal Institute of Technology Bengaluru
Prof. Disha Bhatt	The Regional AI Impact Conference / Pre-Summit on "AI for Good Governance: Empowering India's Digital Future."	11 Dec 2025	Department of Science & Technology (DST), Government of Gujarat, in collaboration with IndiaAI (MeitY)

FACULTY CERTIFICATIONS / PROFESSIONAL TRAINING

Name	Certification / Program Title	Duration / Date	Issuing Organization
Prof. Rasikkumar V. Makwana	NEP-2020 Orientation & Sensitization (UGC-MMTTP)	22-31 July 2025	UGC, IIT Kharagpur
Prof. Aanal Raval	NEP-2020 Orientation & Sensitization (UGC-MMTTP)	18-26 September 2025	MMTTC, STRIDE, and IGNOU.
Prof. Disha Bhatt	NEP-2020 Orientation & Sensitization (UGC-MMTTP)	25 September – 7 October 2025	MMTTC, STRIDE, and IGNOU.
Prof. Ritisha Bhatt	NEP-2020 Orientation & Sensitization (UGC-MMTTP)	15 – 24 December 2025	UGC, IIT Kharagpur
	FDP on Advances in Intelligent Civil Engineering (AICE-2025)	10-14 Sept 2025	MITS (Deemed University)
	AICTE-ATAL FDP on AI in Civil Engineering	18-23 Aug 2025	AICTE-ATAL, PACE Institute
	One-day regional meet	25 November 2025	Entrepreneurships development of the institute of India Ahmedabad
	Python Programming & Applications in Water Resources	06-17 Oct 2025	National Water Academy, Pune
Prof. Vaishnavi Solanki, Prof. Anamika Mittal, Prof. Dhvani Modi	GIAN Course on AI and ML algorithms comprehensive study	15 – 19 September 2025	GTU-SET
Rasikkumar V. Makwana	ArcGIS Imagery MOOC: Foundations & Frontiers	Completed Dec 2025	Esri
Prof. Raj Hakani	Online technical session on Information security, Network security and privacy protection	27 October 2025	BIS
	Online technical session on Cloud Computing and Data Centres	28 October 2025	BIS
	International Seminar on AI in Engineering	19 Nov 2025	GTU-ITR
Rasikkumar V. Makwana	Certificate – Introduction to Python (Water Sector)	Oct 2025	National Water Academy
	Introduction to RS and GIS using QGIS	3 – 14 November 2025	National Water Academy, Pune
GTU-SET Faculty	One-Day Seminar on Indigenous Research Methodologies	03 Dec 2025	GTU

Dr. Seema Joshi	NEP-Orientation and Sensitization Programme	15 – 24 December 2025	MMTTC, IIT Kharagpur
Prof. Aanal Raval	3-Days FDP on AI Model Development, Multi-Agent Systems, and Enterprise Applications	9-11 September 2025	GTU – R & D Cell Ahmedabad
Prof. Deepak Upadhyay	CAWACH Webinar – LLM Injection & Bias	20 Nov 2025	CAWACH Kendra
Dr. Kaushik Gondaliya	Claude 101 completion	November 2025	Anthropic
Dr. Ami Ghelani	RUSA–STP on Literary Theories in Classroom	22–27 December 2025	UGC – Malaviya Mission Teacher Training Centre, Saurashtra University, Rajkot
Prof. Vishal Patel	Python Development & Data Science: Variables and Data Types	09 September 2025	Udemy (MTF Institute of Management, Technology and Finance)
	Soft Skills & Holistic Development (Online Webinar under TEERTH Initiative)	17 October 2025	Udemy (MTF Institute of Management, Technology and Finance)
	Teaching Tools for Next Generation Students (Online Webinar under TEERTH Initiative)	04 December 2025	Knowledge Consortium of Gujarat, Education Department, Govt. of Gujarat
	National Short Term Training Programme on Linear Algebra for Machine Learning	01–05 December 2025	LDRP Institute of Technology & Research, Gandhinagar, in collaboration with Gujarat University
	NEP 2020 Orientation & Sensitization Programme (MM-TTP)	15–24 December 2025	UGC – Malaviya Mission Teacher Training Programme, IIT Kharagpur
	Six-Day Online FDP on Design Thinking and Innovation	17–22 Nov 2025	AICTE–ATAL Academy, Sant Gajanan Maharaj College of Engineering
	National Space Day	23 August 2025	Bharat Space Education Research Centre
	International Conference on Values in Higher Education	19 - 21 December 2025	UHV Foundation, SRM, and AKGEC
Prof. Gautam D. Makwana	Science Communication Conference	22 -23 December 2025	Gujarat Science City, Ahmedabad.
Prof. Aanal Raval	Basics of AI, Cloud and security for multidisciplinary application	6 – 10 October 2025	Aryabhata Centre for Capacity Development, GTU.

MEMORANDA OF UNDERSTANDING (MOUS) & INDUSTRY-ACADEMIA COLLABORATION

Sr. No.	MoU Partner Organization	Date of Signing	Nature / Focus of Collaboration	Coordinator (GTU-SET)
01	Sanrachna Prahari Pvt. Ltd. (IIT-Delhi incubated)	04 September 2025	Structural Health Monitoring (SHM), AI/ML-enabled infrastructure monitoring, IoT-based sensing systems, joint research, consultancy, skill-based training programs, internships, and collaborative publications	Prof. Mridul Seth
02	Survey of India	2025	Training programs, geospatial & surveying skill development, academic collaboration	

CONSULTANCY AND INDUSTRY ENGAGEMENT

Faculty Name	Consultancy Details (as submitted)	Amount (₹)
Prof. Mridul Seth	2-weeks internship/industry engagement activity recorded under consultancy	2,000

STUDENT INITIATIVES & SAPTAK CLUB ACTIVITIES

Ph.D. Completion

- Ms. Ritisha Viralkumar Bhatt** has completed her Doctor of Philosophy (Ph.D.) at Sankalchand Patel University under the supervision of Dr. Gautam D. Makwana, Associate Professor, Department of E&C Engineering, GTU-School of Engineering and Technology (GTU-SET). Her research work, titled “Design and Analysis of Antenna for 5G Application”, was carried out in the domain of Electronics & Communication Engineering (Faculty of Engineering & Technology). She registered for the Ph.D. on 29 July 2020 and successfully defended her thesis in the Public Viva-Voce held on 26 July 2025.
- Ms. Hakani Dhvani Rajkumar** has successfully completed her Doctor of Philosophy (Ph.D.) at Gujarat Technological University (GTU) in the discipline of Computer / IT Engineering. Her doctoral thesis, titled “An Optimization Approach for Firewall Rules in a Cloud-Based Environment”, was carried out under the supervision of Dr. Palvinder Singh Mann. The research work addresses critical challenges in cloud security by proposing optimization techniques for firewall rule management, contributing to enhanced efficiency, scalability, and security in cloud computing environments. The viva-voce examination was conducted on 15 November 2025, and based on the favourable recommendations of the examiners, the thesis was accepted by the University.
- Ms. Aanal Raval** has successfully completed her Doctor of Philosophy (Ph.D.) at Gujarat Technological University (GTU) in the discipline of Computer/IT Engineering. Her doctoral thesis, titled “Examining and Enhancement of Eclectic Blend of Topics using ML Techniques from Social Media Content for Comprehensive user Recommendations” was carried out under the supervision of Dr. Komal Borisagar. The viva-voce examination was conducted on 10th July 2025, and based on the favourable recommendations of the examiners, the thesis was accepted by the University.
- Ms. Arpita Maheriya** has successfully completed her Doctor of Philosophy (Ph.D.) at Gujarat Technological University (GTU) in the discipline of Computer/IT Engineering. Her doctoral thesis, titled “An Effective Approach to Mitigate Security Challenges through privacy preservation for Machine Learning Techniques to build Robust Healthcare data” was carried out under the supervision of Dr. Komal Borisagar. The viva-voce examination was conducted on 23rd June 2025, and based on the favourable recommendations of the examiners, the thesis was accepted by the University.

MOOCs, NPTEL CERTIFICATION ACHIEVEMENTS

Faculty / Student Name	Course Title	Duration	Course Length	Internal Score	External Score	Overall Score
Prof. Rasikkumar V. Makwana	Geographic Information System	Jul-Oct 2025	12 Weeks	22.5 / 25	47.73 / 75	70
	Introduction to Multimodal Urban Transportation Systems (MUTS)	Jul-Oct 2025	12 Weeks	20.56 / 25	32.63 / 75	53
	ArcGIS Imagery MOOC	2 December 2025	6 Weeks	-	-	-

Dr. Seema Joshi	IBM Coursera Course	26 November 2025	-	-	-	-
Sushilkumar Dangiya	Introduction to Industry 4.0 and Industrial Internet of Things	Jul–Oct 2025	12 Weeks	25 / 25	51 / 75	76
	Introduction to Wireless and Cellular Communications	Jul–Oct 2025	12 Weeks	19.69 / 25	31.38 / 75	51
Gohel Dhruv Kalpeshbhai	The Joy of Computing using Python	Jul–Oct 2025	12 Weeks	24.66/25	69/75	94

CERTIFICATIONS & RESEARCH SKILL ENHANCEMENT

Name of Faculty/Student	Course / Certification	Platform	Completion
Sushilkumar Dangiya	Industry 4.0 & Industrial IoT	NPTEL	70
	Wireless & Cellular Communications	NPTEL	53
	Webinar on Elsevier Researcher Academy, i.e., Step-by-Step Guide to Publishing Research, Gender Bias in Academic Publishing, Crafting Award-Winning Research Proposals, How to Secure Research Funding – ECR Edition	Elsevier Researcher Academy	-

WORKSHOPS / FDPS / CERTIFICATIONS / WEBINARS / TRAININGS COMPLETED

Name of Faculty/Student	Course / Certification	Platform	Completion
Sushilkumar Dangiya	BIS Online Technical Sessions on <ul style="list-style-type: none"> • Cloud Computing & Data Centres • Information Security, Network Security & Privacy Protection • Internet of Things • Artificial Intelligence 	Oct–Dec 2025	Bureau of Indian Standards

STUDENT PARTICIPATION IN CONFERENCES & ACADEMIC EVENTS

Student Name	Event	Date	Organizing Institution
Sushilkumar P. Dangiya	Participation and Poster Presentation on AI-Powered Research & IPR	19–20 Sept 2025	Bureau of Indian Standards
	Participation and Poster Presentation on FEH-2025: Frontiers of Engineering in Healthcare	10–12 Dec 2025	IIT Gandhinagar & GTU
	One-day regional Seminar on “Shifting the Lens: Working with and for Indigenous Research Methodologies”	3 December 2025	SIKS- Dharohar-Bharatiya Gyan Parampara Kendra, GTU and ICCS, Bharat.
	IoTSEC Workshop 2025	14 November 2025	DIA-SVPCoR, Gujarat University.
	Bharatiya Antariksh Hackathon 2025	17 September 2025	ISRO, India.

Sushilkumar P. Dangiya	GIAN Course number 2564017- AI and ML Algorithms: A Comprehensive Study	15 – 19 September 2025	GTU-SET
	Basics of AI, Cloud and security for multidisciplinary application	6 – 10 October 2025	Aryabhata Centre for capacity Development, GTU.
	VEHI-6GCOM: 6G-Enabled Innovations in Vehicular Communications for Autonomous Vehicles and Future Intelligent Transportation Systems with Hands-On Tool Proficiency	25 – 27 September 2025	PDEU, Gandhinagar.
	AI Model Development, Multi-Agent Systems, and Enterprise Applications	9 – 11 September 2025	RDC Cell, GTU.
	Statistical Analysis with Excel	1 – 6 August 2025	Research Foundation of India.
	FDP on Advanced Semiconductor and Packaging Technology	30 June – 10 July 2025	MNIT, Jaipur
	Advance Tools and Techniques for Research Methodology	16 – 26 July 2025	Research Foundation of India.
	Next Gen of Design, Manufacturing, Packaging Semiconductor Technologies	30 June – 4 July 2025	GTU-SET
	Next Gen of Design, Manufacturing, Packaging Semiconductor Technologies	30 June – 4 July 2025	GTU-SET
	TEERTH Webinar – Making Classroom More Engaging	21 August 2025	Knowledge Consortium of Gujarat
	TEERTH Webinar – Psychological Well-Being	26 June 2025	
	TEERTH Webinar – LaTeX for Academics	09 July 2025	
	TEERTH Webinar – Science Behind Monsoon	18 July 2025	
	TEERTH Webinar – Digital Tools to Identify Fake News	31 July 2025	
	TEERTH Webinar – Bacteria & Public Health	13 Aug 2025	
CAWACH Webinar – Cyber Drill (Phishing, Malware, Ransomware)	07 July 2025	CAWACH Kendra	

STUDENT ACHIEVEMENT

Kaushal Joshi, a UG Computer Engineering (3rd Semester) student of GTU-SET, secured 2nd Rank in the Inter-Zonal Karate Tournament. His achievement reflects strong discipline, determination, and sportsmanship, and highlights the institute's encouragement of holistic student development through active participation and excellence in co-curricular sports activities. Team NEMOIRE, comprising GTU-SET students, has been nominated for Smart India Hackathon 2025 (ATSHE Code: U0135), under the guidance of Prof. Parth Chauhan and Prof. Raj Hakani. Team members, namely, Darshkumar Dobariya, Mahir Patel, Kashyap Padariya, Ankit Bharadava, Harshkumar Prajapati, and Drashti Suthar.

Vikas Saptah Hackathon 2025

A team of 3rd Semester Electronics & Communication Engineering and Computer Engineering students from GTU-SET, namely Darsh, Ankit, Ishan, Mahir, Jenish, and Raj, under the guidance of Prof. Komal Prajapati and Prof. Raj Hakani, secured the 2nd Prize at the Vikas Saptah Hackathon 2025 (SSIP Hackathon), organized by the Government of Gujarat and hosted by Pandit Deendayal Energy University. The team addressed Problem Statement PS000076 – “Safety Precaution Monitoring System” given by NTPC, which focused on safety challenges faced at large industrial sites due to lack of continuous worker monitoring. They proposed an AI and ML-based solution that analyses CCTV feeds to automatically detect whether workers

are wearing proper safety gear and following safety protocols, generating instant alerts in case of violations. The system achieved over 90% accuracy in identifying safety compliance and was highly appreciated by the jury for its practical applicability and industrial relevance. The team received a cash prize of ₹30,000 and has also been approved for funding support under SSIP 2.0 for further enhancement of their project, marking another milestone in GTU's ongoing efforts to promote innovation, entrepreneurship, and real-world problem-solving among its students.



SAPTAK CLUB & CO-CURRICULAR ACTIVITIES

Rakhi Competition & Exhibition

Event Type: Cultural & Social Engagement Activity

The School of Engineering and Technology, Gujarat Technological University (GTU-SET), successfully organized a **Handmade Rakhi Competition and Exhibition** on **6 August 2025 at 3:00 PM** to commemorate **Raksha Bandhan** in a meaningful and patriotic spirit. The event Coordinated by Prof. Komal Prajapati and Dr. Bhavdip Moghariya, witnessed enthusiastic participation from students, who designed and exhibited handmade rakhis symbolizing creativity, unity, gratitude, and respect for the nation's brave soldiers. As a significant outcome of this initiative, a total of **461 rakhis**—including **55 handmade rakhis along with other readymade rakhis**—were sent to the **Cantonment Army Camp, Shahibaug**, through **Mr. Kadarb Bhatt (B.E. Civil Engineering, 5th Semester)**. The gesture was warmly received by the soldiers, who conveyed their heartfelt appreciation and gratitude, acknowledging the students' efforts and patriotic Feelings. The event not only encouraged artistic expression and social responsibility among students but also strengthened their emotional connection with the armed forces. It stood as a proud and memorable moment for GTU-SET, reflecting the institute's commitment to nurturing values of patriotism, creativity, and civic engagement alongside technical education.



GTU YOUTH FESTIVAL “XITIJ-2025”: CREATIVE EVENTS COORDINATION

Dates: 6–9 October 2025

Organized by: Gujarat Technological University

Events Coordinated: On-the-Spot Painting, Rangoli, Cartooning, Poster Making, Collage, Clay Modelling

GTU-SET faculty, **Prof. Rasik Makwana**, actively contributed to the successful execution of creative and cultural competitions during the GTU Youth Festival “XITIJ-2025.” The events encouraged student participation across multiple art forms, promoting creativity, cultural expression, and holistic development alongside technical education. Effective coordination ensured smooth conduct, fair evaluation, and enthusiastic student engagement throughout the festival.

Outcome:

- Encouraged creativity and cultural participation
- Strengthened student–faculty engagement



DISASTER RISK REDUCTION (DRR) AND ENVIRONMENT CLUB

Activity Name: (i) Topic Structural Engineering Challenges in a Large, (ii) Multidisciplinary Project – IIT Mandi Campus and (iii) Industrial Visit to Institute of Seismology Research, Gandhinagar.

STUDENT SKILL DEVELOPMENT & HOLISTIC GROWTH

Through participation in certifications, cultural events, exhibitions, and academic conferences, students demonstrated balanced development across technical competence, creativity, and professional readiness. These initiatives complement classroom learning and support the university's emphasis on outcome-based and experiential education.

BIS QUIZ

GTU-SET organized the Bureau of Indian Standards (BIS) National Level Online Quiz Competition for students as a part of MoU partner institutes with BIS. The objective of quiz for creating awareness about consumer rights, standardization, and quality assurance in India. The Quiz was successfully conducted by BIS committee members at GTU-SET on 26 November 2025.

INTERNSHIP & PLACEMENT UPDATES

Pre-Placement Aptitude Test Preparation Session

Venue / Mode: GTU-SET, Ahmedabad (On-campus)

Sr. No.	Date(s)	Coordinator(s) / Organizer	Participation	Key Outcome / Focus
01	17 July 2025	Coordinator: Prof. Gautam Makwana, Computer Engineering, GTU-SET; Resource Person: Mr. Rahul Patira, Quantitative Aptitude Trainer, Career line Education Foundation, Ahmedabad	Pre-final year Computer Engineering students and PG students (CE–Cyber Security, AI & DS, IoT, Civil (Structural) Engineering)	Delivered concept-based training on Percentage with hands-on practice to strengthen quantitative aptitude and support preparation for GATE and placement aptitude tests.
02	31 July 2025	Coordinator: Prof. Gautam Makwana, Computer Engineering, GTU-SET; Resource Person: Mr. Rahul Patira, Quantitative Aptitude Trainer, Career line Education Foundation, Ahmedabad	55 students	Conducted guided problem-solving and practice exercises to enhance quantitative aptitude and improve readiness for GATE and placement aptitude assessments.

INDUSTRIAL EXPOSURE VISIT

Hella Infra Market Pvt. Ltd., Bavla (BIS Club Activity)

GTU-SET organized an industrial exposure visit for Civil Engineering students to Hella Infra Market Pvt. Ltd., Bavla on 10 October 2025 (09:00 AM – 05:00 PM) under the aegis of the Bureau of Indian Standards (BIS), Ahmedabad. The visit provided students first-hand exposure to the end-to-end eco-brick (Eco Bricks / Paver Blocks) manufacturing process, including with raw material handling, assembly-line operations, storage systems, and quality testing protocols aligned with BIS compliance. Students also interacted with industry officials through a Q&A session covering Production, Quality, Safety, and Logistics, strengthening their understanding of standards-driven industrial practice and employability expectations. The activity was attended by 18 students and coordinated by Prof. Dhvani Modi under the guidance of Prof. (Dr.) Jignesh A. Amin.

Odoo India, Info-city, Gandhinagar

An industrial visit to Odoo India Pvt. Ltd. was organized for postgraduate students of GTU-SET (School of Engineering & Technology), Gujarat Technological University, from the branches of Cyber Security and Artificial Intelligence–Data Science. A total of 34 students from GTU-SET, accompanied by two faculty members, Prof. Anamika Mittal and Prof. Dhvani Modi, participated in the visit on 19th November 2025.



GTU-SET organized an industrial visit to Odoo on 2nd December 2025 for the BE- Computer engineering 3rd semester students. The visit was organized and coordinated by Prof. Disha Bhatt and Dr. Aanal Raval to ensure smooth execution and proper guidance for the students. A total Number of 58 students participated, and a bus was arranged for transportation.

Bisag, Gandhinagar (BIS Club Activity)

GTU-SET organized a visit to BISAG on 01/12/2025 under BIS, which aimed at providing Students with practical exposure to broadcasting operations and satellite data management. Approximately 100 students participated in the visit, which was planned in two batches with timings at 11:00 AM and 1:00 PM, respectively. The students were divided into two batches for smooth coordination: Batch 1 was guided by Dr. Aanal Raval and Prof. Parth Chauhan, while Batch 2 was supervised by Prof. Ritisha Bhatt and Prof. Komal Prajapati. During the visit, students were provided with detailed insights into BISAG's state-of-the-art facilities, including live broadcasting rooms, control systems, and the processes involved in handling, processing, and managing data received from satellites.



Institute For Plasma Research (IPR), Gandhinagar

GTU-SET organized an industrial exposure visit to the Institute for Plasma Research (IPR) in Gandhinagar on September 15, 2025. The activity was attended by 16 students of B.E. Computer Engineering (5th semester) and M.E. AIDS/CS (3rd semester). The visit was coordinated by Prof. Dhvani Modi and Prof. Dipak Dabhi. IPR, an autonomous institute under the Department of Atomic Energy, Government of India, is known for its contributions to nuclear fusion research, the ITER project, and advanced technologies such as superconductivity, cryogenics, and high-power systems. The primary objective was to provide practical exposure to advanced research in plasma physics, nuclear fusion, and related technologies, thereby bridging the gap between theoretical learning and real-world applications.



PHOTO GALLERY







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:

Dr. Jignesh A. Amin, Professor, GTU-SET, Chairperson

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

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

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

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

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

Dr. Ami Ghelani, 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) B.E. – Computer Engineering
Duration: 04 Years
Intake: 60
Inception Year: 2023

(5) M.E. – Computer Engineering
(Artificial Intelligence and Data Science)
AICTE Approved
Duration: 02 Years
Intake: 18
Inception Year: 2022

(6) M.E. – Civil Engineering (Structural Engineering)
AICTE Approved
Duration: 02 Year
Intake: 18
Inception Year: 2022

(7) M.E. - Electronics & Communication (VLSI Design)
Duration: 02 Years
Intake: 18
Inception Year: 2025

(8) B.E. – Electronics & Communication
Duration: 04 Years
Intake: 30
Inception Year: 2024

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SCHOOL OF ENGINEERING AND TECHNOLOGY
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