

KANASH कनश

Reflection of GTU-GSET Activities
Reflection of GTU-GSET Activities

Volume-1.Issue-1, Jul- Sep 2020



GUJARAT TECHNOLOGICAL UNIVERSITY
GRADUATE SCHOOL OF ENGINEERING AND TECHNOLOGY

Message From Hon. Vice Chancellor



I am happy to know that GTU-Graduate School of Engineering (GTU-GSET) has taken an initiative to publish its quarterly Newsletter KANASH and this is the first issue of the School.

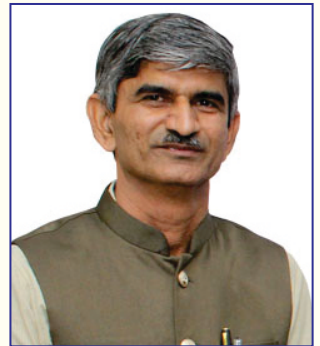
Every educational institute should create its own unique identity. Apart from important responsibility of teaching-learning, the faculties have to focus on 360 degree developments of themselves as well as students. Newsletter is a medium by which the liveness of school/college is felt by the stakeholders. Since its beginning, GTU-GSET is continuously making the quality efforts and getting success too.

I wish all the best to team of GTU-GSET and I am sure that “KANASH” will play an important role create a unique identity and establish the strong bond between GTU-GSET and its stakeholders.

Prof. (Dr.) Navin Sheth
Vice Chancellor
Gujarat Technological University, Ahmedabad

Message From Registrar

It is a proud moment for all of us to know that GTU-GSET is moving a step towards publication of the first issue of its Newsletter-KANASH. Being the largest public technological university in the state of Gujarat, there are many expectations from GTU. In order to meet these expectations, the GTU PG Schools are initiating many technical and non-technical programs to update the students and teachers in-line with changing technologies. KANASH will not only help to show-case such programs but it will also show direction to other educational institutes in overall development of the students and teachers. I wish all the best and hope that KANASH will become a brand of GTU-GSET.



Dr. K. N. Kher
Registrar
Gujarat Technological University, Ahmedabad

Message From Director



Welcome to the first newsletter “KANASH” from Gujarat Technological University-Graduate School of Engineering & Technology (GTU-GSET) Institute and check out what the GTU-GSET has accomplished in recent months! Our missions are fully underway and we have successfully established university-level research centers with high-quality laboratory facilities. Currently, two PG programs (Cyber security, Mobile Communication and Networking Technology) and one PG-Diploma program in Data science are successfully running at the Institute. KANASH is the reflection of the proactive involvement and technical contributions of the GTU-GSET faculties and students. Institute also recognized as a one of the GTU approved AICTE Doctoral Fellowship Center (ADF) from AY-2020-21 to provide full-time research facilities to the researcher in the various emerging areas. We are also inviting eminent industrialists and interested researchers to contribute their research skills for the benefit of societal needs.

Prof. (Dr.) S. D. Panchal
Director : Graduate School of Engineering and Technology
Gujarat Technological University, Ahmedabad



GREEN and HEALTHY CAMPUS ENVIRONMENT

CONTENTS

Sr. No.	Content	Page No.
1	Message from Authorities	-
2	Awards/Honors/Research Grants received by Faculty Members and Students	1
3	Research and Innovation	2
4	Workshops/Conferences/Seminars/Mooc Details	4
5	New Arrivals	7
6	Placements and Internships	8
7	Our Alumni	11
8	Technical Events/ News	12
9	Technical/non-technical contribution of GSET- Faculties and Students	14
10	Professor's & Students Blog	15

Awards/Honors/Research Grants received by Faculty Members and Students

Numbers of academic prominence, prestige, renowned fellowships, research grants, associate ships, specified lectureships, desired awards and medals have been granted on the faculties and students in recognition of their academic and social achievements, during the last 3 years. Some of the distinctions include:



Prof. Komal Borisagar (Associate Professor at GTU-GSET) received "ISTE GUJ-VBT Award for the Best Woman Teaching Faculty in Degree Engineering collage for the Year 2019" sponsored by Vidyabharti Trust, Bardoli.



Prof. Deepak Upadhyay (Assistant Professor, GTU - GSET) got appreciation from commissioner of police for contribution in Rajkot Cyber Crime Police Station on 19th June 2019

Alumni of Cyber Security Branch Student received Gold Medal (M.tech/ M.E- 2017-19) in university examination



- Prof. Gautama D. Makwana (Associate Professor at GTU-GSET) received Research Grant of Rs. 20,70,000/- for the Research Proposal on "Investigation, Analysis of Multiband Array Antenna for 5G Mobile Handset in IoT Application for two years on 19th September 2020 from Gujarat Council for Science and Technology (GUJCOST), Gandhinagar.
- Yamika Solanki, Fatema Hamid & Naresh kumar alumni students of Cyber Security got 1st Position in Cryptohunt- GTU Zonal Techfest on 27th - 28th February 2018
- Prof. Deepak Upadhyay (Assistant Professor, GTU – GSET) and Naresh Kumar (Alumni of Cyber Security Branch) got 1st Position in Hackathon at Ahmedabad University on 3rd - 4th March 2018.
- Team of Cyber Security GTU-GSET got appreciation from Deputy Commissioner of Police for Contribution in Ahmedabad Cyber Crime Police Station on 7th March 2019.

3. Research and Innovation

Within the Master's program, the dissertation/research component is an extremely important component. Research is the parameter which connects academia with industry and strengthens the post graduate institute in actual means. The faculties and students of GTU-GSET have published and presented research papers/articles in reputed journals and conferences respectively. The faculties has reviewed research papers/articles for various journals and conferences.

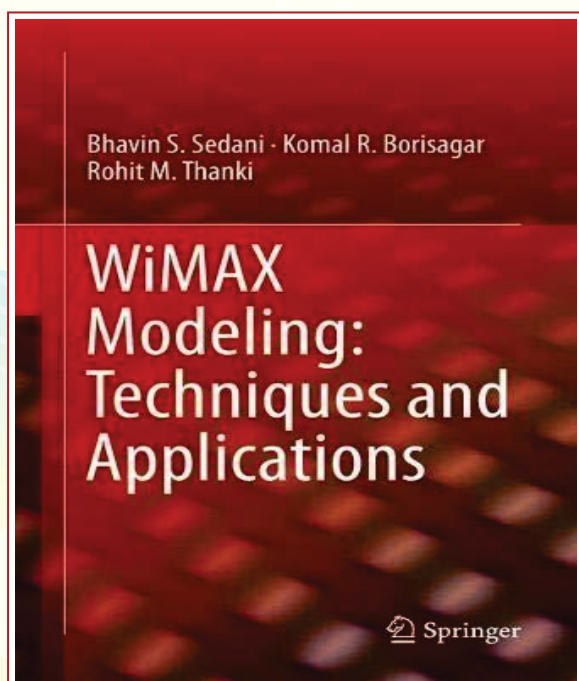
3.1 Research Papers Published by Faculty Members and Students of GTU- GSET

- "Prediction and Mitigation of Cellular Link Failure using Machine Learning", Joshi Vedant and Asst. Prof. Rutika Ghariya 'Compliance Engineering Journal' (UGC CARE approved Group - II Journal), ISSN: 0898-3577, Volume 11 Issue 6.
- "Types of Honeypot and Comparative Study Based on Level of Interaction Using Single Honeypot", Vadaviya Dhruvi R., Journal of Emerging technologies and innovative research ISSN: 2349-5162 Volume 6 issue 6
- "Malware Detection using Honeypot and Malware Prevention", Vadaviya Dhruvi R. International Journal of Computer engineering & Technology, IAEME; ISSN Online- 09766375, 09766367 Vol 10 Issue 6th Page 1-9
- "Implementation of Black hole Attack for Random Mobility for Single and Multiple Connection in MANET", Sharma Hitesh Omprakash, 'International Journal of Innovative Technology and Exploring Engineering (IJITEE)', ISSN: 2278-3075 (Online), Volume-9 Issue-3, January 2020, Page 3299-3302.
- "Mitigation Technique for Blackhole attack in MANET", Sharma Hitesh 11th INTERNATIONAL CONFERENCE ON COMPUTING, COMMUNICATION AND NETWORKING TECHNOLOGIES (ICCCNT)
- "Passive Motion Tracking for Assisting Augmented Scenarios" by Sharma Hitesh Omprakash in Congress on Intelligent Systems (CIS 2020). The conference proceeding of the CIS2020 will be published in SCOPUS Indexed Springer Book Series, 'Advances in Intelligent Systems and Computing' (<https://www.springer.com/series/11156>) and 'Lecture Notes on Data Engineering and Communications Technologies' (<https://www.springer.com/series/15362>).
- "Effect of Doping and Thickness of Si on Superlative Photovoltaic Cell using PC1D", Revan Dharmendrasinh, Global research and development journal, ISSN 2455-5703 Volume 5 Issue 9
- "Comparative study of different parameters of Solar cell using PC1D Simulation software" Revan Dharmendrasinh, Advanced Nanomaterials for Energy and Environmental Applications (ICANEE-2020) - Virtual Event, ISBN: 9789354088476
"Fog Node Possible Architectures and Propose the Changes in Mechanism to Architectures to Make Contiki OS Real Time"
- "Revan Dharmendrasinh & Nayak Hemal, International Journal of Scientific Research and Engineering Development, ISSN: 2581-7175 volume 3 Issue 3 Page 900-905

- "Analysis of Various Sybil Attack Isolation Techniques", Joshi Seema in Compliance Engineering Journal (UGC CARE approved Group - II Journal), ISSN No: 0898-3577.
- "A Review on Authentication Techniques in Mobile Cloud Computing", Joshi Seema, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181 (ISO 9001-2015 Certified)
- "Analysis of Wormhole Attack Detection Techniques in MANET", Joshi Seema Compliance Engineering Journal (UGC CARE approved Group - II Journal), ISSN No: 0898-3577.

3.2 Reviewed Papers by the faculty members of GTU-GSET:

Prof. S. K. Hadia (Associate Professor, GTU-GSET)	<ul style="list-style-type: none"> • The International Conference on "Research and Innovations in Science, Engineering & Technology" (ICRISET-2020). • A research manuscript for "Journal of Intelligent System" which is SCOPUS indexed journal published by De Gruyter Foundation Germany.
Prof. Gautam] Makwana (Associate Professor, GTU-GSET)	<ul style="list-style-type: none"> • A paper for Springer Journal: SADHANA Academics Proceeding in Engineering Sciences (Impact Factor: 0.849) during 7th August 2020 to 31st August 2020
Prof. Seema Joshi (Assistant Professor, GTU-GSET)	<ul style="list-style-type: none"> • A research article for Indian Journal of Science & Technology



• Book Publication by the Faculty Members of GTU - GSET:

Prof. Komal Borisagar (Associate Professor, GTU-GSET) has Published a book titled "WiMAX system Modeling: Techniques and Implementation" by springer, ISBN:978-303022459 in March 2020

"Workshops/Conferences/Seminar/MOOC Details"

Various Technical and Non-technical workshops and seminars have been organized by GTU - Graduate School of Engineering and Technology during the last three months. Moreover, Faculties and Students of GTU - GSET have participated in different workshops and seminars organized by prestigious organizations. Some of these programs include:

4.1 Workshop/Seminar conducted by GTU - GSET Faculty Members

Topic	Date	Name of Faculty	Activity
CO-PO/PSO Mapping and Attainment Calculation	5/9/2020	Prof. (Dr.) S.D. Panchal (Director,GTU-GSET)	Expert session on CO-PO/PSO Mapping and Attainment Calculation based on the NBA guideline.

4.2 Workshop/Seminar coordinated by GTU - GSET Faculty Members

Topic	Date	Name of Faculty	Activity
Data Analytics Techniques & Python	22/08/2020	Prof. Margam Suthar (Assistant Professor GTU-GSET)	Coordinated expert talk on: Overview and Agenda: Introduction to Data Analytics Techniques &Python organized in association with Vodafone University Engagement Program. Mr. Suryender Kumar Sharma, National Manager-Technical Services, Foundation for Innovation and Collaborative Education (FICE), Bangalore had delivered the expert talk on Data Analytics Techniques & Python.
N-dimensional arrays and performing statistical operations with python Numpy package	5/9/2020		Working with N-dimensional arrays and performing statistical operations with python Numpy package organized in association with Vodafone University Engagement Program. Mr. Niyas Narimukkil, Master trainer, Foundation for Innovation and Collaborative Education, Bangalore was delivered the expert talk.

4.3 Workshop/Seminar Attended by GTU - GSET Faculty Members

Topic	Date	Name of Faculty	Activity
NAAC assessment and accreditation process	5/8/2020	Prof. S K Hadia (Associate Professor, GTU-GSET)	NAAC assessment and accreditation process organized by IQAC cell of GTU on 5 th August 2020
New Education Policy	13/08/2020		A webinar on Awareness of New Education Policy-2020 organized by IQAC cell, GTU
Wireless Communication Technologies for IoT	27/07/2020 to 07/08/2020		Two-week Online Faculty Development Programme on "Wireless Communication Technologies for IoT" jointly organised by Electronics and ICT Academies under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India.
Role of Engineers in sustainability	15/08/2020		Expert session on 'Role of Engineers in sustainability'
Internet of Things and Machine Learning organized	24/08/2020 to 28/08/2020	Prof. Gautam Makwana (Associate Professor, GTU-GSET)	Faculty development Program on Internet of Things and Machine Learning organized by Centre of Continuing Education, National Institute of Technology, Warangal
Gujarat Industrial Policy 2020			Interactive Live Session on Gujarat Industrial Policy 2020 with Hon'ble Chief Minister Shri. Vijay Rupaniji
Cyber Security	07/08/2020 & 08/08/2020	Prof. Seema B. Joshi Assistant Professor, GTU –GSET)	online Cyber Security Workshop for Government Officers by ISEA Project Phase-II in association with IIT Guwahati & Pentester Academy. Secured 90% in online assessment.
Yoga for Concentration and Usefulness	24/08/2020 to 26/08/2020		3 Days online workshop on "Yoga for Concentration and Usefulness" organized by GTU
Design of Water Related Infrastructures for Smart City	27/07/2020 to 31/07/2020	Prof. Mridul Seth (Assistant Professor, GTU –GSET)	TEQIP-3 sponsored One Week Short Term Training Programme (Online) on "Design of Water Related Infrastructures for Smart City" that was organized by Centre of Excellence on Water Resources and Flood Management SVNIT, Surat. The training program was organized at national level in which speakers from international were invited

4.4 Students Participation

Students of GTU-GSET have attended different-different seminars/workshops/expert talk on various topics during last 3-4 months period. Some statistics are as follow:

Sr. No.	Event/Activity	No. of activities attended by students
1	Workshops	More than 60
2	Seminars	More than 55

4.5 MOOC details:

Details about the MOOC courses completed by the faculty members:

Dr. SK Hadia (Associate Professor, GTU-GSET)	Completed NPTEL course NBA Accreditation and Teaching - Learning in Engineering (NATE) (12 Weeks) on the SWAYAM platform (swayam.gov.in) with Score 88%, during the Jan-Apr 2020 semester
Prof. Seema B. Joshi (Assistant Professor, GTU-GSET)	<ul style="list-style-type: none"> Completed NPTEL course Introduction to Blockchain Technology and Applications (8 Weeks) on the SWAYAM platform (swayam.gov.in) with Score 68%, during the Jan-Apr 2020 semester. NPTEL course Cryptography and Network Security (12 Weeks) on the SWAYAM platform (swayam.gov.in) with Score 90%, during the Jan-Apr 2020 semester. NPTEL course NBA Accreditation and Teaching - Learning in Engineering (NATE) (12 Weeks) on the SWAYAM platform (swayam.gov.in) with Score 88%, during the Jan-Apr 2020 semester
Prof. Rutika Ghariya (Assistant Professor, GTU-GSET)	Completed NPTEL course NBA Accreditation and Teaching - Learning in Engineering (NATE) (12 Weeks) on the SWAYAM platform (swayam.gov.in) with Score 88%, during the Jan-Apr 2020 semester



5. NEW Arrivals

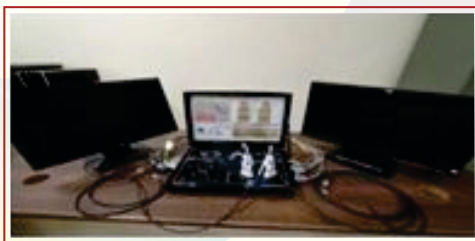
• Equipments for Cyber Security

GTU - GSET has developed the Cyber Security and Digital Forensics Laboratory which is a state-of-the-art, dedicated space in which students can safely engage in cyber related activities, including malware detection and analysis, and penetration testing. It is equipped with everything required to secure and analyze digital evidence. Cybercrime and forensic investigations are simulated in a safe, controlled environment without possible impact to other campus network. This lab is provided to all ME Cyber Security students to undertake coursework and project work where they can enhance their research skill in the field of Cyber Security.



• Equipments for Mobile Communication Technology

The Mobile Communication and Network Technology department has good infrastructure and well-equipped laboratories with qualified support staff supervised by well qualified, experienced and committed faculty members who are seasoned researchers. GTU - GSET has developed Mobile Communication Laboratory, Computer Network laboratory, IOT laboratory to enhanced the skill and improve the technical knowledge of students.



(Left to right – top to bottom): Understanding 4G VoLTE Mobile Phone 0520104, IOT Builder-Orange 052006, Digital Storage Oscilloscope 100Mhz, 2 Channel 0620432, Lan Explorer 0320337, Wireless Sensor Network 052002, Sensor Lab 0620275

Library New arrivals

Sr. No.	Title	Author	Publisher
1	Mimo Wireless Communication Space-Time	Ezio Biglieri Hamid	Cambridge
2	Coding : Theory and Practice Satellite	Jafarkhani Wilbur Pritchard	Cambridge
3	Communication Systems Engineering Statistical and		Perason
4	adaptive signal Processing	Dmitris G. Manolakis	Artech House

All this new arrivals are facilitated at GTU- GSET. This Advancement will support students to learn new technology, skills and improve the knowledge.



6. Placements and Internships

Final year students of GTU-GSET have done their internship from the organization of national reputewell-known companies. The detail is as follow:

6.1 Internship details :

Sr No.	Program	Enrollment No.	Name	Company/Organization Name
1	Cyber Security (Batch: 2018-20)	181370759001	Barot Aman	Net-Square Solutions Pvt. Ltd., Ahmedabad
2		181370759015	Patel Smit	Net-Square Solutions Pvt. Ltd., Ahmedabad
3		181370759007	Gadhiya Raj	Net-Square Solutions Pvt. Ltd., Ahmedabad
4		181370759004	Bhatt Himadri	CID-Cyber Crime Cell, Gandhinagar
5		181370759005	Chasiya Krutika	CID-Cyber Crime Cell, Gandhinagar
6		181370759018	Vala Khushali	CID-Cyber Crime Cell, Gandhinagar
7		181370759008	Gohil Krutika	CID-Cyber Crime Cell, Gandhinagar
8		181370759009	Jogsan Sunali	CID-Cyber Crime Cell, Gandhinagar
9		181370759011	Mehta Srusti	CID-Cyber Crime Cell, Gandhinagar

10		181370759013	Oza Pranali	CID-Cyber Crime Cell, Gandhinagar
11		181370759016	Raiyani Jay	CID-Cyber Crime Cell, Gandhinagar
12		181370759017	Savalia Yamini	SAC-ISRO, Ahmedabad
13		181370759019	Barot Vishal	Cloud 24x7 Pvt. Ltd., Ahmedabad
14	Mobile Commun ication and Network Technolo gy (Batch: 2018-20)	181370160012	Tejal Talatia	Space Application Centre, ISRO, Ahmedabad
15		181370160001	Girija Bhatt	Space Application Centre, ISRO, Ahmedabad
16		181370160002	Joshi Vedant	Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG), Gandhinagar
17		181370160004	Sunny Priyani	Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG), Gandhinagar
18		181370160006	Dharmendra Revar	Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG), Gandhinagar
19		181370160007	Nishal Sathwara	Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG), Gandhinagar
20		181370160008	Jayveer	Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG), Gandhinagar
21		181370160011	Ms. Vidhya Sudani	Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG), Gandhinagar

Some of the Students of program Mobile Communication and Network Technology of Batch 2019-20 are right now doing their internship in companies/organizations like Gujarat Power Research and Development cell, Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), SAC-ISRO, Grid Space Baroda. Some companies like Institute of Plasma Research, Gandhinagar, G-Tek Corporation Pvt. Ltd, Baroda, Matrix Comsec Pvt Ltd, Baroda, Amtech Electronics, Gandhinagar, Modern Communication & Broadcast System Pvt. Ltd, Gandhinagar, Shriji Technoaspire Pvt. Ltd., Gandhinagar, Leaftronix, Gandhinagar are willing to take our student for their PG Internships. Maximum students of the final year Cyber Security and Mobile communication and Network Technology got selected in campus placement/off campus placement.

The details are as follows:

6.2 Placement Details

Program	Enrollment	Name	Company name	Designation
Cyber Security (Batch: 2018-20)	181370759001	Acharya Krishna	Media,Ahmedabad	Assistant Director
	181370759001	Barot Aman	Net Square Solutions PVT. LTD.	Security Analyst
	181370759007	Gadhiya Raj	Net Square Solutions PVT. LTD.	Security Analyst
	181370759015	Patel Smit	Net Square Solutions PVT. LTD.	Security Analyst
	181370759019	Barot Vishal	Mehansh(Blackstratus) Solutions Ahmedabad	SOC Analyst
	181370759011	Mehta Srusti	Alterego Technology Limited	SOC Analyst (Trainee)
	181370759006	Chaudhari Sunit Kumar	IG Group	Associate Security Operations Analyst
Mobile Communication and Network Technology (Batch: 2018-20)	181370760009	Hitesh Sharma	info Analytica Consulting Pvt. Ltd.	Research Associate

7. Our Alumni

GTU – GSET has been started with the post-graduation program named “Cyber Security” from the academic year 2017-18. The first batch of this program is passed out and a maximum number of the students of the first batch have been placed in reputed and prestigious companies/organizations. Some of the students have chosen to be an entrepreneur.

Pass out Year 2020

Sr. No.	Name	Institute/ Company Name	Designation
1	Avinash solanki	Blueinfy Solutions pvt Ltd.	Pentester
2	Hardika Menghani	Silver Oak University	Assistant Professor
3	Keyur Patel	KPMG India	Associate Consultant
4	Krupali Joshi	Vadodara Institute of Engineering	Assistant Professor
5	Kushal Jani	Oracle	Senior Application Developer
6	Radha Raval	Marwadi University	Assistant Professor
7	Suraj Kumar	SVP National Police Academy	Assistant Analyst
8	Vishal Baraiya	Artificial Blockchain Intelligence (ABCI)	Founder & CEO
9	Yamika Solanki	Blueinfy Solutions pvt Ltd	Web application Security Consultant

Informal comments received from our passed-out students are used to make improvements to our program and to provide encouragement to staff members of institute. Some feedbacks Received were:

Naresh Kumar:

Very much satisfied with the academic initiative of the institution. Institute always enriched the academic with other co-curricular activities.

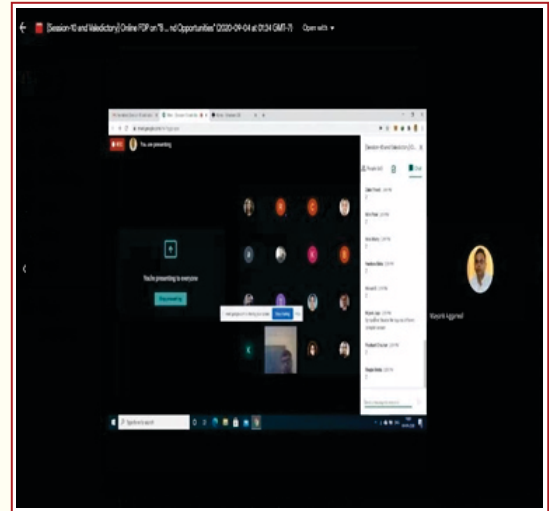
Hardika Menghani:

The faculties have always supported in the studies as well as in career guidance. Even the non- teaching staff is very help students to develop the skill like sports, art, elocution and many more things apart from studies



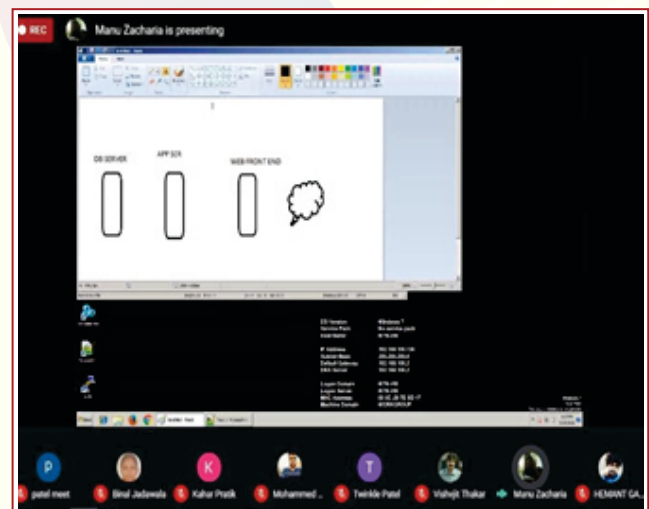
8. Technical Events/ News

A 5-day online faculty development program on "Blockchain Technology: Challenges and Opportunities" was organized by the GTU-GSET from 31st August-2020 to 4th September-2020. Experts from C-DAC (Mumbai), IIIT Delhi, Gurukul Kangri University, KS University Gandhinagar, Thakur Engineering College Mumbai were invited. Various aspects of blockchain technology such as hashing, smart contracts, consensus algorithms, big data management as well as various practical uses of blockchain technology such as land registry, clinical trials, National Education Policy-2020 have been discussed. Coordinator of this event. Coordinators of this FDP are Prof. Mahesh Panchal and Rutika Ghariya. (Assistant Professor, GTU – GSET)



GTU-GSET organized five days online faculty development program on “Internet of Things with Machine Learning and Artificial Intelligence” held during 14-18 September, 2020 in association with Centre for Continuing Education, National Institute of Technology (NIT), Warangal. Objectives of the FDP are to train our Indian technocrats to solve issues addressed by National Educational Policy (NEP), creation of new knowledge, develop robust research echo-system in IoT, Machine Learning and AI at GTU in a collaboration with NIT, Warangal. Coordinator of this FDP is Dr. Gautam Makawana.

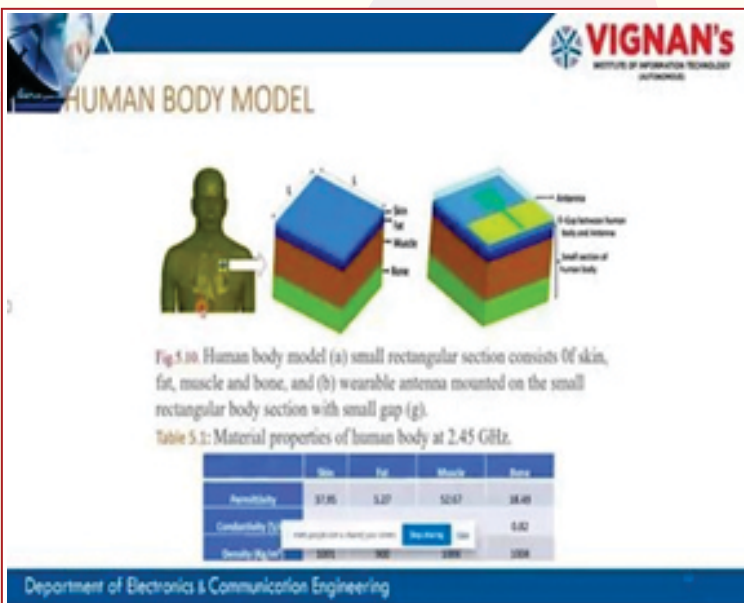
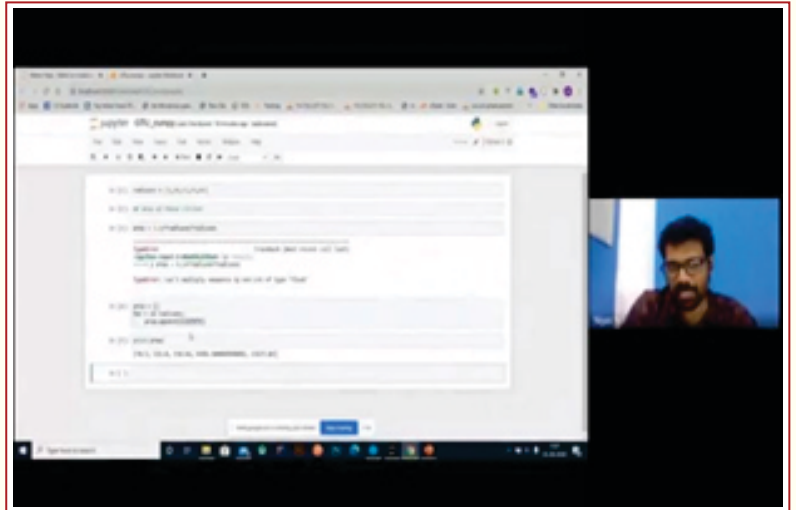
GTU-GSET had organized the online FDP on “Network Security” under ISEA Project Phase-II from 28th September to 02nd October 2020. The theme of the FDP is based on Covid-19. Due to COVID-19 pandemic situation, organizations embrace the remote work/ work from home concept. There are a lot of network security challenges while employees are working from home. Common threats are IP theft and data leakages, phishing attacks, sophisticated COVID-19 Theme targeted network attack, etc. Cyber attackers are increasingly seeking to exploit vulnerabilities in the organization's security infrastructure. So, it is very important to focus upon network security





GTU-Graduate School of Engineering and Technology in association with Trade Promotion Council of Robotics & Automation has organized the webinar on “Know how blockchain is changing your world - An Introduction to Blockchain”. Mr. Raj A. Kapoor, founder of India Blockchain Alliance was invited as an eminent speaker. He had delivered an expert talk on the introduction of blockchain technology, its applications and job opportunities in the emerging field for young generation.

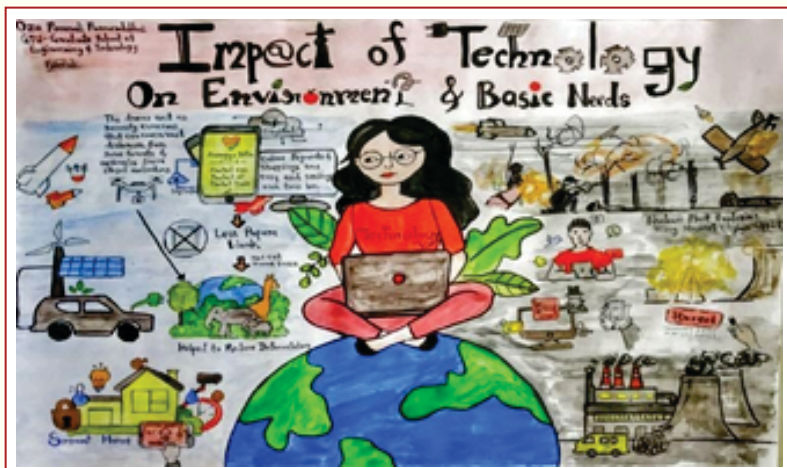
GTU-GSET organized five days online faculty development program on “Internet of Things with Machine Learning and Artificial Intelligence” held during 14-18 September, 2020 in association with Centre for Continuing Education, National Institute of Technology (NIT), Warangal. Objectives of the FDP are to train our Indian technocrats to solve issues addressed by National Educational Policy (NEP), creation of new knowledge, develop robust research ecosystem in IoT, Machine Learning and AI at GTU in a collaboration with NIT, Warangal. Coordinator of this FDP is Dr. Gautam Makawana.



GTU-Graduate School of Engineering and Technology had organized the webinar on “Wearable Antenna” on 26th Sept 2020. Dr. Sourav Roy (PhD, NIT Silchar) had given a talk on the antenna. In this webinar expert talked about a novel approach in design of wearable, analysis and synthesis of multiband wearable antenna (Inside Human Body) and its challenges. He had also talked about how to select (choose material) and design parameters to design multipurpose wearable antennas and also simulated and discussed one designed wearable antenna.

9. Technical/non-technical contribution of GSET- Faculties and Students:

Staff members and faculties of GTU-GSET has contributed technically and non-technically in development of the institute.



Prof. Mridul Seth Assistant Proffessor, GTUSET has Coordinated an E-poster Competition for the engineer's Day. And GTU GSET student Oza Pranali got 1st rank in this competition.

Naresh Kumar (Student of Cyber Security (batch:2017-18 part of discussion on Yuvvani on Cyber Security.



Prof, Deepak Upadhya (Assistant Professor, GTU-GSET)	<ul style="list-style-type: none"> Contributed in Cyber Crime Investigation to solve the GTU Data Leak case held on 30-07-2020 Attended Gurugram Police Cyber Security Summer Internship, in which the participants were selected at national and International level. The experts were from CBI, NTRO, Supreme Court, Haryana Police, etc.
Naresh Kumar, Student, GTU-GSET	Delivered lecture on Python Programming Language at Ashvinbhai A. Patel Commerce College, Kadi University on 12th July 2018.
Puja Singh Student, MCNT (Batch 2019-20)	Appointed as an associate member of Institute of Electronics and Telecommunication on Engineers (IETE- Professional Body Institution.

10. Professor's & Students Blog

❖ Human being and cyber security

By Prof. Seema B Joshi, Assistant Professor (Cyber Security), GTU-GSET

Today, people are well connected with each other through the Internet. All the companies, Government and organizations are also hyper connected and rely on a web of information through the Internet which provides interconnectivity and flexibility. We can consider the similarity between human body and cyber system i.e. computer network system can be compared with the human body, while cyber-attacks can be compared with viruses. It is required to create a cyber-immune system that intelligently learns from its environment to evade recurring problems and combat new ones just like to immune our health and mind to prevent various diseases. Proper and effective breathing is very important for the human body to increase the immunity and reduce the stress levels. The Sanskrit word for 'Breath' is 'Swasa'. The correlation of 'Swasa' with cyber safety and security is as below:

S: Sensitize;	To sensitize the people about cyber security and safety awareness.
W: Worthy;	To be a worthy person and remove the negative qualities such as greediness, deception, jealousy, laziness, etc. from your life.
A: Aware;	To be aware about cybercrime – its effects, examples and prevention and also aware other stakeholders such as cyber frauds, cyberbullying, etc.
S: Secure;	To secure yourself and your system with preventive measures against cyber-attacks.
A: Alert;	To be alert and cautious when engaging online activities.

Awareness Quote:

“Deep ‘Swasa’ for a healthy and happy life, follow ‘SWASA’ for cyber secure and safe life”.

શિક્ષકપણું

મહેશ એચ. પંચાલ

આસિસ્ટન્ટ પ્રોફેસર, GTU-GSET

આપણે ત્યાં “માલિકીપણું”, “પોતીકાપણું”, “સખીપણું” જેવા શબ્દો પ્રચલિત છે. અહીં “શિક્ષકપણા” ની વાત કરવી છે. સામાન્ય રીતે દરેક વ્યક્તિ અથવા તો ખાસ કરીને વ્યાવસાયિક હર્મેશા વ્યવસાયના વિચારોની સાથે જીવતો હોય છે પરંતુ એક શિક્ષક વિચારો અને વિદ્યાર્થીઓની સાથે જીવતો હોય છે.

વિદ્યાર્થી ભૂલ કરવો જ ના જોઈએ એવી માન્યતા ઠસાવવાને બદલે વિદ્યાર્થી ભૂલ કરે ત્યારે તેની પડખે ઊભા રહીને યોગ્ય રસ્તો બતાવાય ત્યારે શિક્ષકનું “શિક્ષકપણું” સાર્થક થયું તેમ કહી શકાય. શિક્ષકની એક આંખમાંથી સ્નેહ અને બીજી આંખમાંથી સ્નેહભર્યો ડર જ્યારે વિદ્યાર્થીને અનુભવાય ત્યારે શિક્ષકનું “શિક્ષકપણું” સાર્થક થયું તેમ કહી શકાય. વિદ્યાર્થીઓને અભ્યાસક્રમ ઉપરાંત વ્યાવસાયિક જ્ઞાન અને જીવનોપયોગી માર્ગદર્શન આપવાની જ્યારે ઉત્કંઠા થાય ત્યારે શિક્ષકનું “શિક્ષકપણું” સાર્થક થયું તેમ કહી શકાય. “મા” ના સ્તરે જઈને ભણાવે એ માસ્તર કહેવાય તે વાત સાચી અને સાથે સાથે વિદ્યાર્થીના સ્તર સુધી ઉતરી ત્યાંથી તેને ઊંચકી દુનિયાદારીના વહેતા પ્રવાહમાં મુકવાનો જ્યારે પ્રયત્ન સાહજીક રીતે થાય ત્યારે શિક્ષકનું “શિક્ષકપણું” સાર્થક થયું તેમ કહી શકાય. વિદ્યાર્થી મારા કરતાં પણ વધારે પ્રગતિ કરે એવા આશીર્વાદ આપ્યા પછી એ વિદ્યાર્થીની પ્રગતિમાં પોતાના આશીર્વાદ કરતાં વિદ્યાર્થીની મહેનતને વધારે ગણાવી સદળો યશ જ્યારે વિદ્યાર્થીને અપાય ક્યારે શિક્ષકનું “શિક્ષકપણું” સાર્થક થયું તેમ કહી શકાય.

અને છેલ્લે વિદ્યાર્થીના હૃદયના ઊંડાણમાંથી જ્યારે અવાજ આવે કે “મારે આ શિક્ષક જેવા બનવું છે” ત્યારે એ શિક્ષકનું “શિક્ષકપણું” સાર્થક થયું તેમ કહી શકાય.

❖ **Bank fraud Awareness : Be careful about ATM card fraud , Debit card fraud , Credit card fraud**
By Yamini Savaliya Student, GSET-GTU

- "Be careful whenever you are sharing personal details on the Internet."
- "Be careful whenever you are giving permission 'Allow' to applications during installation in your mobile."
- As a Cyber forensic volunteer, I have analyzed some case studies of these kinds of frauds. Let me share with you one case study !!
- One person was getting messages continuously in his mobile regarding OTP (One Time Password). These OTPs automatically shared with someone else by any third-party application installed on his mobile. That someone else can be considered as cybercriminal in this case. And suddenly, money debited from his account, and after 7-8 transaction messages, his account statement was empty. Here are some messages received by the victim.
- Now the question is, how this happen? What kind of mistake done by the victim?
- There was one third party payment application in the victim's mobile, and during installation, he gave a text message read permission 'allow.'
- We can get a refund within 24 hours in the past years, but cybercriminals become very active nowadays. They use smart ideas such as asking for the wallet to wallet transfer from the victim and then immediately transfer money in bank accounts. It is hard to reach them.
- Almost Cyber criminals using holidays to execute this kind of online fraud. Because during holidays, banks are closed, and sometimes we can not contact banks by helpline numbers. And your one mistake can spoil your holidays.



About GTU – GSET

Vision:

To create an ecosystem in education and research that provides socially responsible, globally acceptable technocrats, innovators and entrepreneurs.

Mission:

- To develop state-of-art research facilities with well-equipped academic infrastructure
- To establish strong collaborations with research organizations, Institute of national importance and Industries that promote research and consultancies
- To encourage innovative practices to produce innovators and entrepreneurs
- To leverage International linkages of the University to establish strong international outreach

About Cyber Security

Vision:

To create a research environment to provide socially responsible and technically sound postgraduate technocrats, innovators and entrepreneurs in the cyber security domain.

Mission:

- To develop state-of-art research facilities of cyber security and digital forensics with well-equipped academic infrastructure
- To encourage faculty to do research and consultancies in the field of cyber security and digital forensics.
- To establish strong linkages with research organizations, Institute of national importance and Industries for cyber security.
- To promote innovative practices to produce innovators and entrepreneurs in the field of cyber security.

About Mobile Communication and Network Technology

Vision :

To create a research environment for producing socially responsible and technically sound technocrats, innovators and entrepreneurs in the field of advanced wireless communication and networking

Mission :

- To develop state-of-art research facilities with well equipped academic infrastructure
- To encourage faculty and students for research and consultancies
- To establish strong linkages with research organizations, Institute of national importance and Industries of wireless communication and networking.
- To promote innovative practices in department to produce innovators and entrepreneurs
- To leverage International linkage of University to establish strong international outreach

About Data Science

By use of various web-based and mobile-based applications, voluminous data is generated. Hence, it becomes challenging task to handle these data and most importantly to understand the data. Looking at the current and futuristic trends, there will be demand of data science experts who can understand the nature of data, analyze the data and take result-oriented decisions after analysis of the data. This program is for students who are interested in developing skills in data science and data analytics. This is one year course with 30 intake. During one year of program the students will learn insights of subjects like Machine Learning, Programming in Python, Blockchain Technology, Big Data Analytics, Data Analysis using R, Cloud Computing etc.

Why "KANASH"?

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

K : Knowledge

A : Achievement

N : Nurturing

A : Acknowledgement

S : Sustainability

H: Happiness

News Letter Committee:

Prof. S. D. Panchal, Director-GSET, Chairperson

Prof. Gautam Makwana, Associate Professor, GSET, Editorial Board Member

Prof. Mahesh Panchal, Assistant Professor, GSET, Editorial Board Member

Prof. Rutika Ghariya, Assistant Professor, GSET, Editorial Board Member

Mr. Ranchhod R. Khambhala, Librarian, GSET, Editorial Board Member

Programs Offer

M.E. – Computer Engineering (Cyber Security) (2 years program)

Starting Year: 2017

Intake: 30

M.E. – Electronics and Communication Engineering (Mobile Communication and Network Technology) (2 years program)

Starting Year: 2018

Intake: 30

Post Graduate Diploma in Data Science (1 year certification program)

Starting Year: 2020

Intake: 30



GUJARAT TECHNOLOGICAL UNIVERSITY GRADUATE SCHOOL OF ENGINEERING AND TECHNOLOGY

(University Managed Government Institute)

Shed 5, GTU Chandkheda Campus, GJ SH 41, near Visat Three
Roads, Nigam Nagar, Chandkheda, Ahmedabad, Gujarat 382424

Website: www.set.gtu.ac.in Email : gtuset@gtu.edu.in