

Gujarat Technological University

Graduate School of Engineering and Technology



Student Information Booklet AY 2021-22



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Message from Vice Chancellor



**Prof. (Dr.) Navin Sheth,
Vice Chancellor, GTU**

My dear students,

It gives me immense pleasure to welcome all the first-year students and extending my best wishes for joining highly specialized postgraduation and PG-diploma programs in the various emerging area of the engineering domain at the Graduate School of Engineering and Technology, Gujarat Technological University.

Technology is rapidly changing and to cope with it, continuously need to update yourself. The Gujarat Technology University is committed to proving you the opportunities to explore new dimensions with changing technology. The GTU-GSET is having a state-of-art laboratory infrastructure in the various specialized PG programs where you can sharp your technical knowledge under the guidance of highly qualified faculty members. I also assure you that outcome-based education (OBE) being implemented at GTU-GSET will help you to establish the accreditation milestone in the coming days. The university is also continuously evolving new paradigm to promote the research culture at postgraduation programs and supporting students to achieve their professional accomplishments. I assure you that, GTU-GSET will meet all your expectations and will help you to fulfil all your professional goals during your stay at GTU-GSET.

Once again, I congratulate all of you for securing admission at GTU-GSET and my best wishes for your future endowments.

Message from Registrar



**Dr. K N Kher,
Registrar, GTU**

My dear students,

I congratulate all of you for securing admission at Graduate School of Engineering and Technology – Gujarat Technological University Ahmedabad.

Gujarat Technological University is the largest technological university and committed to providing world-class education in the various professional domain. GTU-GSET is running various PG programs in the emerging engineering technology area where you can find various opportunities to explore your career goals along with research skills. The highly qualified faculties and state-of-art laboratory infrastructure at GTU-GSET will help to prepare the skilled engineers as per the need of Industry and research organizations. The prominent resources of the university like GTU-Innovation centre (GIC), Atal Incubation Centre (AIC), Design Innovation Centre (DIC), and various industrial and research organization tie-ups will help you to build your professional career during your stay at GTU-GSET.

We look forward to working with you. Once again, I welcome you on behalf of the entire university.

Message from Director



Dr S D Panchal
Director, GTU-GSET

GTU-GSET is established in 2017 and currently imparting postgraduation programs in highly specialized engineering domains like cybersecurity, Internet of Things and Mobile communication and Network Technology. It also runs a one-year PG-diploma program in data science.

I feel greatly privileged for taking the opportunity to welcome the new batch of various PG programs and a PG-diploma program for the academic year 2021-22. GTU-GSET is committed to delivering quality outcome-based education, where students will enjoy their study and research activities during their study tenure. At present, GTU-GSET is having state-of-art laboratory facilities which are equipped with digital forensic hardware and software, Pentester cybersecurity lab access, a supercomputing facility, an Internet of Things setup, mobile communication trainer kits etc. The school is also having strategic understandings with various domain-specific industries, research organizations to promote practical skills, research culture and internship opportunities among the students.

I, on behalf of GTU-GSET, assure you that, your journey at GTU-GSET will be joyful and helps you to achieve all your professional careers objectives.

University Authority		
Sr no	Name	Designation
1	Prof. (Dr.) Navin Sheth	Hon. Vice-Chancellor, GTU
2	Dr. K. N. Kher	Registrar, GTU
3	Prof. (Dr.) S. D. Panchal	Director, GTU-GSET

Academic Advisory Committee

Sr No	Name of the Member	Designation With Parent institute/Company/Organization
1	Prof. S. D. Panchal	Professor, GTU-GSET
2	Prof. Rajesh Thakker	Adjunct Professor, GTU-GSET
3	Prof. Gautam Makwana	Associate Professor, GTU-GSET
4	Prof. Sarman K. Hadia	Associate Professor, GTU-GSET
5	Prof. Komal Borisagar	Associate Professor, GTU-GSET
6	Prof. Seema B. Joshi	Assistant Professor, GTU-GSET
7	Prof. Mahesh H. Panchal	Assistant Professor, GTU-GSET
8	Prof. Kiran Parmar	Professor, Adani Institute of Technology, Ahmedabad
9	Prof. Parvez Faruki	Head of Department, Information Technology, AVPTI, Rajkot
10	Prof. N. K. Chaudhary	Professor and Dean, School of Cyber Security, National Forensic Sciences University, Gandhinagar
11	Mr. Nilesh Ranpara	Manager, ASIC, eInfochips Ltd., Ahmedabad
12	Mr. Harish Chhib	Sophos Technology, Ahmedabad
13	Prof. Mayuri Mehta	Professor, Department of Computer Engineering, Sarvajanik College of Engineering & Technology, Surat
14	Prof. D. Janakiram	Professor, Indian Institute of Technology-Madras
15	Mr. R. Ajith Kumar	Assistant Professor, Indian Institute of Information Technology and Management- Kerala (IIITM-K)
16	Prof. Mukesh Zaveri	Professor and Head of Computer Engineering Dept. , SVNIT, Surat
17	Prof. Mehul Raval	Professor, School of Engineering and Applied Science, Ahmedabad University
18	Prof. Hiren Joshi	Professor, Department. of Computer Science, Gujarat University, Ahmedabad

Section 1

General Information

1.1 About University

Gujarat Technological University is a premier academic and research institution that has driven new ways of thinking since its 2007 founding, established by the Government of Gujarat vide Gujarat Act No. 20 of 2007. Today, GTU is an intellectual destination that draws inspired scholars to its campus, keeping GTU at the nexus of ideas that challenge and change the world.

- **Vision:**

To be a global university for the creation and dissemination of knowledge and Innovation in Science & Technology, Humanities and Multidisciplinary domains for sustainable development and enrichment of human life.

- **Mission:**

1. To develop centres of academic excellence at university premises and at affiliated colleges in domains of science, engineering, technology, management, and environment for imparting comprehensive education, training, and research infrastructure as per the nation's requirements.
2. To build resources, facilities, proficiencies and other related infrastructure of global standard for the development of knowledge, skills, and competencies in the various educational domains.
3. To develop research-oriented pedagogy for flourishing ideas and to nurture innovators, entrepreneurs and professionals of tomorrow.
4. To build and enhance collaborations with other academic, research, industry, and government organizations as well as NGOs across the globe so that education, training and research at university and its affiliated colleges become aligned with national and global level requirements.
5. To encourage multidisciplinary research and develop a flexible learning ecosystem.

- **Core Values:**

1. Excellence with value-based education.
2. Responsiveness to society.
3. Integrity and transparency.
4. Mutual Respect.
5. Sustainable development.

1.2 About GTU-GSET

Gujarat Technological University has started the Graduate School of Engineering and Technology (GSET) with AICTE affirmed postgraduate programs. The following programs are running at the GTU-GSET

Postgraduate program in Computer Engineering with Specialization in Cybersecurity

- Postgraduate program in Computer Engineering with Specialization in Internet of Things
- Postgraduate program in Electronics Communication with Specialization in Mobile Communication and Network Technology
- Postgraduate Diploma in Data Science (1-year program)

Each of these programs has been run under Gujarat Technological University – Graduate School of Engineering and Technology (GTU-GSET) with the vision of giving outstanding specialized knowledge and prepare research-oriented technocrats for society.

Following are salient features of the programs running under GTU-GSET:

- It is a university managed-govt. institute and all programs are running at GTU Chandkheda – Ahmedabad Campus.
- Effective implementation of Outcome-Based Education (OBE)
- Students are guided and acknowledged by senior academicians and industry experts in the capacity of advisors.
- Students are facilitated to showcase their talent by arranging various student led programs.
- Easy access to conferences and workshops organized by GTU on the campus itself, elsewhere in India and abroad.
- Laboratories are equipped with the latest hardware and software and a Supercomputing facility.
- Collaboration with various Industry-Academia and Certification agencies to get the high skilled Certification like Pentester, CISCO etc.
- Opportunities to work on live research projects in various research organizations and domain-specific Industries.
- Funding opportunities from the various GTU Initiatives to promote the research in the Institute.
- Placement and Internship opportunities with stipend provisions
- Opportunity to interact with course-specific Industry experts
- Hostel facility is available for boys and girls.

1.3 Centres of Excellence at GTU

The various centre of excellence facilities is developed at Gujarat Technological University with objectives to provides skill-oriented teaching and learning to give the exposure to the learners as per the need of the Industry. This centre will act as a centre to transfer current technologies to students and evolve them into research and innovation activities These centres will help to improve employability and provide greater opportunities for developing entrepreneurship.

GTU – BOSCH Centre of Excellence in Automation



It is built for Industry-4.0 frontiers of today's technology in the Automation field with the association with Bosch-Rexroth India Limited (BRIN) to develop the industry-institute partnership in the field of Automation, Mobile Hydraulic, Automobile, and Mobile Electronics Technologies to bridge technology gaps between industry and academia to foster research and knowledge among the students at GTU. The main goal of the centre would be to improve the technical competence, employability and entrepreneurship of UG & PG students who train at the centre and encourage students to pursue PG programs. In this CoE, Hydraulic Lab, Pneumatic Lab, Programmable logic controller, Robotic Lab, and Sensor Laboratory equipment are available.

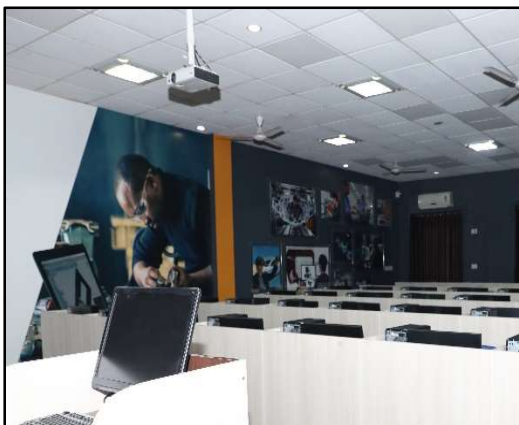
For more information on the course and registration procedure, please click on the link:
<https://goo.gl/oqAuCw>

1.3.1 GTU – Welding Centre of Excellence in Automation



Gujarat Technological University has established the Centre of Excellence in Welding Sector under the short-term bridge course scheme of the Center for Entrepreneurship Development (CED). The objective is to train skilled workers, moreover, these will provide training to students of engineering.

1.3.2 GTU – Design Centre of Excellence (Auto Desk)



GTU Design Innovation Centre has signed MoU with Autodesk and established Design Centre of Excellence in the campus intending to train Students, Innovators, Startups and the trainer, in the field of Design. The state-of-art computing laboratory is developed having 30 high configuration computers with PCB Design, CAD/CAM, Fusion etc. software.

1.4 Academic collaboration with Industry-Educational Academy

1.4.1 Edusillks academy

Sr. No	Academy	Courses
1	Cisco Networking Academy	Cisco Certified Network Associate (CCNA)
		Cisco Certified DevNet Associate (DEVNET)
2	Amazon Web Service Academy	AWS Certified Cloud Foundation
		AWS Academy AI & ML Foundations
		AWS Academy Solution Architect
3	Redhat Academy	Red Hat Certified System Administrator (RHCSA)
		Red Hat Certified Engineer (RHCE)
4	Palo Alto Academy	Palo alto Networks Certified Cybersecurity Entry Level Technician
		Cybersecurity Foundation
		Network Security Foundations
		Cloud Security Foundations
		Security Operations Foundations (SOC)
		Paloalto Certified Network Security Administrator (PCNSA)

		Cybersecurity Infrastructure Configuration
		Cybersecurity Prevention and Countermeasures
5	Blue Prism Academy	Blue Prism Academy Foundation
		Blue Prism Certified Developer (AD01)
6	QlikQ Lead with Data	Qlik Sense Business Analyst qualifications
		Qlik Sense data Architect qualifications
		Data Analytic Certification
		Data Literacy Certification

1.4.2 Cyber Security –Pentester Virtual Labs:

GTU-GSET has established the cyber security virtual lab facilities in association with Pentester Academy, USA. Pentester Academy provides one of the most comprehensive, hands-on and technically challenging courses in the industry. It has 40+ Courses, 1900+ Labs, 1500+ HD Videos with real-time scenarios. GTU-Graduate School of Engineering and Technology has taken subscriptions for the benefit of the students and these labs are being utilized for their enhancement of technical skills. These online courses help the students for the preparation of the Internship and Placement.

1.4.3 GTU-GSET VAPT Facility:

In the current era, data has become the most important part of human beings and its privacy & security has become the essential need of the organization, which comes under the field of cyber security. Hence this field plays an important role for companies and organizations. GTU-GSET has initiated a VAPT service facility in the domain of cyber security. It offers Web Application and Penetration Testing (WAPT), Mobile Application and Penetration Testing (MAPT), Risk Assessment and Threat Modelling, Compliance Audits, Cyber Security Training and Incident Response and Disaster Management.

1.5 Various Funding resources for research & Innovation

1.5.1 Atal Incubation Center

Atal Incubation Center – GTU Innovation and Startup Center Foundation (AIC-GISC) promoted by Gujarat Technological University supported by Atal Innovation Mission, NITI Aayog aims to foster the culture of innovation and entrepreneurship by supporting technology-based start-ups & developing an ecosystem that is conducive for innovation, where start-ups and new ventures thrive. It has been created in a modest infrastructure in the GTU campus for providing the essential Dedicated Lab Suites, Shared Lab, Co-working spaces, specialized facilities like Fabrication lab, sophisticated laboratory and Central Instrumentation facility in the specific domain of Biotechnology, Healthcare, Pharma and Medical Devices. AIC-GISC help startups through their early development by providing business advice, resources, contacts and capital. For more details, kindly visit: <http://www.aic-gisc.gtu.ac.in/>

1.5.2 GTU Innovation Council (GIC)

GTU Innovation Council is one of the elite initiatives of the GTU for cultivating a multilayer innovation ecosystem. Through the efforts for creating a culture of innovation and entrepreneurship in the last decade, an aura of developing the ecosystem across the state was conceptualized. GTU Innovation and Startup Centre (GISC) has been designed to establish close bonding between industries, entrepreneurs, faculty members and students to make research and development at the university. For more details kindly visit: <http://gtuinnovationcouncil.ac.in/>

1.5.3 GTU - IPR Cell

GIC – IPR cell is working with a mission for IP literacy for faculty and students, which has started in September 2011. The cell organizes workshops for faculty and students, based on various themes. For more details, kindly visit: <https://gtuipr.gtu.ac.in/>

1.5.4 GTU – Seed Money Scheme

To promote the innovative ideas of teachers and regular postgraduate students of various departments of Schools and University-approved research centres to initiate or continue their research activities, a seed money scheme is launched in 2020. Under this scheme, seed money is available to the faculties and students for their research activities.



Section 2

Program Details

2.1 Postgraduate Program in Computer Engineering with specialization in Cyber Security

- Year of Establishment: 2017-18
- AICTE Approved Intake Capacity: 30
- Duration: 2 Years

Vision of Program

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

Mission of Program

- 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, the Institute of national importance and Industries for cyber security.
- To promote innovative practices to produce innovators and entrepreneurs in the field of cyber security.
- To leverage the International linkage of Gujarat Technological University to establish strong international outreach for the cyber security domain.

Program Specific Outcome

- To understand and analyse the various cyber-attacks, cyber laws, ethical hacking concepts, defending the practice of cyber security, and digital forensics techniques.
- Identify, analyze and develop software and hardware solutions for complex problems in the cyber security domain.
- Apply advanced knowledge to identify research challenges, and contribute individually or in a team to resolve Cyber Security and Digital Forensics issues.

Program Educational Objectives

- To impart knowledge/skill in the areas of cyber security, digital forensics, cyber laws and related disciplines.
- To work in reputed computer and IT security, Government and Research organizations or as an entrepreneur to build a cyber safe nation.
- To able to cope with cyber security challenges through continuing education, increased responsibility, teamwork and an ethical code of conduct.

Laboratory Details

- Cyber Security and Digital Forensics Laboratory
- High-Performance Computing (HPC) Laboratory
- Network Research Laboratory
- Vulnerability Assessment and Penetration Testing (VAPT) Laboratory

Program curriculum Structure

Subject code	Category	Program Code 59: ME Computer Engg. (Cybersecurity)	Th Hrs	Tut Hrs	Pract Hrs	CR	ESE (E)	PA (M)	PA (I)	ESE (V)	Total Marks
Semester -1											
4715901	PC-I	Cyber Law, Policies and Compliance	3	0	2	4	70	30	20	30	150
4715902	PC-II	Computer Networks and Security	3	0	2	4	70	30	20	30	150
4715903	PE-I	Defensive Programming	3	0	2	4	70	30	20	30	150
4715904	PE-I	Artificial Intelligence in Cyber Security –I									
4715905	PE-I	Secure Software Design and Enterprise Computing									
4715906	PE-II	Operating System and Host Security	3	0	2	4	70	30	20	30	150
4715907	PE-II	Cyber Security and Cryptography: Principles and Practices									
4715908	PE-II	Introduction to IoT									
3710001	MLC	Research Methodology and IPR	1	0	2	2	0	0	20	80	100
3700004	AC-I	Value Education	2	0	0	0	50	0	0	0	50
		Total	15	0	10	18	330	120	100	200	750
Semester-2											
4725901	PC-III	Digital Forensics and Investigations	3	0	2	4	70	30	20	30	150
4725902	PC-IV	Malware Analysis	3	0	2	4	70	30	20	30	150
4725903	PE-III	Ethical Hacking Practices	3	0	2	4	70	30	20	30	150
4725904	PE-III	Artificial Intelligence in Cyber Security -II									
4725905	PE-III	Cloud Computing and Security									
4725906	PE-IV	Web and Database Security	3	0	2	4	70	30	20	30	150
4725907	PE-IV	Advanced Cryptography									
4725908	PE-IV	Security in IoT									
3720001	Mini-Project	Mini Project with Seminar	0	0	4	2	0	0	100	0	100
3700001	AC-II	English for Research Paper Writing	2	0	0	0	50	0	0	0	50
		Total	14	0	12	18	330	120	180	120	750
Semester-3											
4735901	PE-V	Industrial Control Systems (ICS) Cyber Security	3	0	2	4	70	30	20	30	150
4735902	PE-V	Incident Response and e-Discovery									
4735903	PE-V	Wireless Communication and Mobile Security									
3730005	OE -I	Business Analytics	3	0	2	4	70	30	20	30	150
3730006	OE-II	Industrial Safety									
3730007	OE-III	Cost Management of Engineering Projects									
3730002	IR-I	Internal Review-I	0	0	4	2	0	0	100	0	100
3730003	DP-I	Dissertation Phase-I	0	0	16	8	0	0	0	100	100
		Total	6	0	24	18	140	60	140	160	500
Semester -4											
3740001	IR-II	Internal Review-II	0	0	4	2	0	0	100	0	100
3740002	DP-II	Dissertation Phase-II	0	0	28	14	0	0	0	100	100
		Total	0	0	32	16	0	0	100	100	200

2.2 Postgraduate Program in Electronics & Communication With Specialization in Mobile Communication and Network Technology

- Year of Establishment: 2018-19
- AICTE Approved Intake Capacity: 18
- Duration: 2 Years

Vision of Program

- 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 of Program

- 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, the Institute of national importance and industries of wireless communication and networking.
- To promote innovative practices in the department to produce innovators and entrepreneurs.
- To leverage the international linkage of the university to establish strong international outreach.

Program Specific Outcome

- Understand, design and implement emerging technology in the field of mobile communication and network technology.
- To analyze real-time problems, design appropriate systems to provide solutions that are technically sound, cost-effective and beneficial to the society in mobile communication and network technology.
- To furnish with necessary soft skills, managerial skills, analytical skills to work in the software and hardware industry

Program Educational Objectives

- Engage in the effective practice of communication and networking engineering to recognize and solve important tribulations in a diverse range of application areas.
- Involve in research with proficiency in core areas of advanced communication and networking related engineering so as to comprehend engineering trade-offs, analysis, design and technical concepts to create novel solutions for the real life problems.
- Occupy constructively in successful careers in industry, academia and attain positions of importance where they have an impact on their business, profession, and community service with ethics.
- Competent enough in any challenging and dynamic environment communicate effectively in variety of professional context and incorporate government societal and industrial need.

Laboratory Details

- Wireless Communication Laboratory
- Internet of Things Laboratory
- Wireless Sensor Network Laboratory
- RF and Microwave Laboratory
- Signal Processing Laboratory

Program curriculum Structure

Subject code	Category	Program 60: ME EC (MCNT)	Th Hrs	Tut Hrs	Pract Hrs	CR	ESE (E)	PA (M)	PA (I)	ESE (V)	Total Marks
Semester-1											
4716001	PC-I	Advanced Digital Communication Techniques	3	0	2	4	70	30	20	30	150
4716002	PC-II	Advanced Wireless Communication	3	0	2	4	70	30	20	30	150
4716003	PE-I	High Frequency CMOS Circuit Design	3	0	2	4	70	30	20	30	150
4716004	PE-I	Embedded System Design									
4716005	PE-I	Optical Communication and Networks									
4716006	PE-II	Artificial Intelligence in Communication	3	0	2	4	70	30	20	30	150
4716007	PE-II	Microwave Integrated Circuits Design									
4716008	PE-II	Advanced Digital Signal Processing in Communication									
3710001	MLC	Research Methodology and IPR	1	0	2	2	0	0	20	80	100
3700004	AC-I (NC)	Value Education	2	0	0	0	50	0	0	0	50
		Total	15	0	10	18	330	120	100	200	750
Semester -2											
4726001	PC-III	Adhoc Network Technology	3	0	2	4	70	30	20	30	150
4726002	PC-IV	Network Performance Modeling and Analysis	3	0	2	4	70	30	20	30	150
4726003	PE-III	RF System Design	3	0	2	4	70	30	20	30	150
4726004	PE-III	IoT Architecture and Applications									
4726005	PE-III	GPS and Satellite Communication									
4726006	PE-IV	Deep Learning in Communication	3	0	2	4	70	30	20	30	150
4726007	PE-IV	Smart Antenna Design									
4726008	PE-IV	Speech and Image Signal Processing									
3720001	Mini Proj	Mini Project with Seminar	0	0	4	2	0	0	100	0	100
3700001	AC-II (NC)	English for Research Paper Writing	2	0	0	0	50	0	0	0	50
		Total	14	0	12	18	330	120	180	120	750
Semester -3											
4736002	PE-V	High Speed Networks	3	0	2	4	70	30	20	30	150
4736003	PE-V	Wireless Network Security									
3730005	PE-V	Software Defined Radio Network									
3730006	OE-I	Business Analytics	3	0	2	4	70	30	20	30	150
3730007	OE-II	Industrial Safety									
4736002	OE-III	Cost Management of Engineering Projects									
4736003	IR-I	Internal Review-I	0	0	4	2	0	0	100	0	100
3730005	DP-I	Dissertation Phase-I	0	0	16	8	0	0	0	100	100
		Total	6	0	24	18	140	60	140	160	500
Semester-4											
3740001	IR-II	Internal Review-II	0	0	4	2	0	0	100	0	100
3740002	DP-II	Dissertation Phase-II	0	0	28	14	0	0	0	100	100
		Total	0	0	32	16	0	0	100	100	200

2.3 Postgraduate Program in Computer Engineering With Specialization in Internet of Things

- Year of Establishment: 2021-22
- AICTE Approved Intake capacity: 18
- Duration: 2 Years

Vision of Program

- To create a research environment for producing socially responsible and technically sound technocrats, innovators and entrepreneurs in the field of Internet of Things and Artificial Intelligence.

Mission of Program

- To develop state-of-art research facilities in Internet of Things and Artificial Intelligence with well-equipped academic infrastructure.
- To encourage faculty members to do research and consultancies in the field of Industry 4.0, Automation and IoT.
- To establish strong linkages with research organizations, Institute of national importance and Industries for advancement in the field of IoT.
- To promote innovative practices to produce innovators and entrepreneurs in the field of IoT, AI, and disruptive technologies.
- To leverage International linkage of Gujarat Technological University to establish strong international outreach for IoT, AI, and disruptive technologies.

Program Specific Outcome

- To understand various aspects of Internet of Things, embedded systems, sensors, actuators, various algorithm of machine learning, artificial intelligence and protocols.
- To implement various methods, techniques, algorithms of deep learning, real-time data analysis, cloud computing, wired & wireless technologies, and programming/script languages in the field of IoT.
- Identify, analyse and develop various algorithms, techniques in software and hardware solutions for complex and real-time problems in the field of IoT.
- Apply advanced knowledge to identify research challenges, and contribute individually or in team to resolve new solutions/products/methods in the field of IoT.

Program Educational Objectives

- Impart knowledge/skill in the areas of IoT, AI, deep learning, cloud computing and Industry 4.0
- Work in reputed computer and IT-based multinational companies, government and research organizations or as an entrepreneur to build novel solutions of real-time issues for the nation.
- Able to cope with IoT challenges through continuing education, increased responsibility, team work and ethical code of conduct.

Laboratory Details

- Internet of Things Laboratory
- Research Laboratory

Program curriculum Structure

Subject code	Category	Program: 62 ME CE (Internet Of Things)	Th Hrs	Tut Hrs	Pract Hrs	CR	ESE (E)	PA (M)	PA (I)	ESE (V)	Total Marks
Semester-1											
1716201	PC-I	Fundamentals of IoT	3	0	2	4	70	30	20	30	150
1716202	PC-II	Design of Embedded System	3	0	2	4	70	30	20	30	150
1716203	PE-I	Gateway Design of IoT	3	0	2	4	70	30	20	30	150
1716204	PE-I	Artificial Intelligence & Soft Computing									
1716205	PE-I	High-Performance Computing									
1716206	PE-II	Sensor, Actuator and Signal Conditioning	3	0	2	4	70	30	20	30	150
1716207	PE-II	Programing Technologies									
1716208	PE-II	Mobile Application Development									
3710001	MLC	Research Methodology and IPR	1	0	2	2	0	0	20	80	100
3700004	AC-I (NC)	Value Education	2	0	0	0	50	0	0	0	50
Total			15	0	10	18	330	120	100	200	750
Semester-2											
1726201	PC-III	IoT OS and Device Drivers	3	0	2	4	70	30	20	30	150
1726202	PC-IV	Wireless Sensor Network	3	0	2	4	70	30	20	30	150
1726203	PE-III	Cloud Computing Technology	3	0	2	4	70	30	20	30	150
1726204	PE-III	Big Data Technologies									
1726205	PE-III	Real-Time Operating System (RTOS)									
1726206	PE-IV	Security in IoT Systems	3	0	2	4	70	30	20	30	150
1726207	PE-IV	Deep Learning									
1726208	PE-IV	Network Programming									
3720001	Mini Project	Mini Project with Seminar	0	0	4	2	0	0	100	0	100
3700001	AC-II (NC)	English for Research Paper Writing	2	0	0	0	50	0	0	0	50
Total			14	0	12	18	330	120	180	120	750
Semester-3											
1736201	PE-V	Real Time Data Analytics	3	0	2	4	70	30	20	30	150
1736202	PE-V	Industrial and Automotive Technologies									
1736203	PE-V	Network Oriented OS									
3730005	OE-I	Business Analytics	3	0	2	4	70	30	20	30	150
3730006	OE-II	Industrial Safety									
3730007	OE-III	Cost Management of Engineering Projects									
3730002	IR-I	Internal Review-I	0	0	4	2	0	0	100	0	100
3730003	DP-I	Dissertation Phase-I	0	0	16	8	0	0	0	100	100
Total			6	0	24	18	140	60	140	160	500
Semester-4											
3740001	IR-II	Internal Review-I	0	0	4	2	0	0	100	0	100
3740002	DP-II	Dissertation Phase-I	0	0	28	14	0	0	0	100	100
Total			0	0	32	16	0	0	100	100	200

2.4 Post Graduate Diploma in Data Science (1 Year Program)

- Year of Establishment: 2020-21
- GTU Approved Intake capacity: 30
- Duration: 1 Year

About Program

- Looking at the current and futuristic trends, there will be a demand for data science experts who can understand the nature of data, analyse 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. During one year of the program, the students learn insights of subjects like Machine Learning, Programming in Python, Blockchain Technology, Big Data Analytics, Data Analysis using R, Cloud Computing etc.

Vision of Program

- To prepare the data, information and knowledge professionals in the field of data science in order to meet the needs of the global information society.

Mission of Program

- To provide an in-depth understanding of the key technologies of data science to the learners.
- To develop state-of-art laboratory facilities with well-equipped academic infrastructure.
- To encourage the faculty members for consultancy projects in the field of data science.
- To establish strong linkages with data science companies and institutes having national importance.
- To promote innovative practices in order to produce innovators and entrepreneurs in the field of data science.

Laboratory Details

- High-Performance Computing (HPC) Laboratory
- Data Science Laboratory

Program curriculum Structure

Subject code	Category	Program: PG Diploma in Data Science	Th Hrs	Tut Hrs	Pract Hrs	CR	ESE (E)	PA (M)	PA (I)	ESE (V)	Total Marks
Semester-1											
1618001	PC-I	Data Structures and Algorithm	4	0	2	5	70	30	0	50	150
1618002	PC-II	Statistics and Exploratory Data Analysis	4	0	2	5	70	30	0	50	150
1618003	PC-III	Fundamentals of Machine Learning	4	0	2	5	70	30	0	50	150
1618004	PC-IV	Introduction to Python Programming	2	0	6	5	50	30	0	70	150
Semester-2											
1628001	PC-V	Software Tools for Data Management	0	0	6	3	0	0	30	70	100
1628002	PC-VI	Cloud Computing	4	0	2	5	70	30	0	50	150
1628003	PC-VII	Big Data Analytics	4	0	2	5	70	30	0	50	150
1628004	PC-VIII	Mini Project	0	0	4	2	0	0	30	70	100
1628005	PE-I	Blockchain Technology	4	0	2	5	70	30	0	50	150
1628006	PE-I	Deep Learning	4	0	2	5	70	30	0	50	150
1628007	PE-I	Natural Language Processing	4	0	2	5	70	30	0	50	150
1628008	PE-I	Business Analytics	4	0	2	5	70	30	0	50	150

2.5 Academic Calendar & Evaluation Scheme

Academic Planning

- The whole academic term will be divided into two teaching phase i.e. Teaching phase-I and Teaching Phase-II and academic calendar along with theory/practical session time-table is circulated by academic section accordingly.
- Each student has to strictly follow it.
- Faculties/Students must be enrolled in LMS (Learning Management System) for their all teaching endowments.
- Each faculty course coordinator will declare the course lesson planning with session details on GTU-GSET Course website/LMS portal
- Students can view his/her academic progress through LMS login only
- The Overall academic term will be planned as below

	Teaching Phase-I (In between the term)	Teaching Phase-II (At the end of the term)
Course having Theory/Practical Components	<ul style="list-style-type: none"> • Student Attendance review-I* • Course Progress Review-I • Continuous Evaluation -I (CET-I)- 30 Marks (consisting of 20 marks theory and 10 marks assignment) 	<ul style="list-style-type: none"> • Student Attendance review-II* • Course Progress Review-II • Continuous Evaluation –II(CET-II) – 30 Marks (consisting of 20 marks theory and 10 marks assignment)
IR-I (Semester-3)	Internal review-I(A): 40 Marks	Internal review-I(B): 60 Marks
IR-II (Semester-4)	Internal review-II(A): 40 Marks	Internal review-II(B): 60 Marks

* Attendance needs to be ensured as per university norms, to grant the term.

Evaluation Methodology

Theory		Practical		Total
ESE(E)	PA(M)	ESE (V)	PA(I)	
70#	30*	30#	20*	150

*Internal Component, #External Component, ESE-End Semester Exam, PA-Progressive Assessment

Internal component* and evaluation methodology		
Course Evaluation	PA(M) : 30	Average marks of Continuous Evaluation – I and Continuous Evaluation –II
	PA(I) : 20	Total marks obtained in practical sessions will be converted into 20 marks (10 practical*10 mark each = 100 marks/5)
IR-I (Sem-3)	IR1 (A) + IR1 (B) – Rubrics based evaluation	
IR-II(Sem-4)	IR2 (A) + IR2 (B) – Rubrics based evaluation	

Section 3

Rules & Regulation

3.1 Code of Conduct for Students (General Disciplinary Guideline):

- At the time of joining, each student must sign a statement accepting this Code and by giving an undertaking that
 - a) He/she shall be regular and must complete his/her studies in the Institute.
 - b) In the event, a student is forced to discontinue studies for any legitimate reasons, such a student may be relieved from the Institute subject to written consent of the Director
 - c) As a result of such relieving, the student shall be required to clear pending hostel /mess dues and if a student had joined the Institute on a scholarship, the said grant shall be revoked.
- Institute believes in promoting a safe and efficient climate by enforcing behavioural standards. All students must uphold academic integrity, respect all persons and their rights and property and safety of others; etc.
- All students must deter from indulging in any and all forms of misconduct including partaking in any activity off-campus which can affect the Institute's interests and reputation substantially. The various forms of misconduct include:
- Any act of discrimination (physical or verbal conduct) based on an individual's gender, caste, race, religion or religious beliefs, colour, region, language, disability, or sexual orientation, marital or family status, physical or mental disability, gender identity, etc.
- Intentionally damaging or destroying Institute property or property of other students and/or faculty members,
- Any disruptive activity in a class room or in an event sponsored by the Institute
- Unable to produce the identity card, issued by the University, or refusing to produce it on demand by campus security guards
- Participating in activities including
 - a) Organizing meetings and processions without permission from the Institute.
 - b) Accepting membership of religious or terrorist groups banned by the University/Institute/Government of Gujarat/Government of India
 - c) Unauthorized possession, carrying or use of any weapon, ammunition, explosives, or potential weapons, fireworks, contrary to law or policy.
 - d) Unauthorized possession or use of harmful chemicals and banned drugs
 - e) Smoking on the campus of the University
 - f) Possessing, Consuming, distributing, selling of alcohol in the Institute/University and/or throwing empty bottles on the campus of the University.
 - g) Parking a vehicle in a no parking zone or in area earmarked for parking other type of vehicles
 - h) Rash driving on the campus that may cause any inconvenience to others
 - i) Not disclosing a pre-existing health condition, either physical or psychological, to the Chief Medical Officer which may cause hindrance to the academic progress.
 - j) Theft or unauthorized access to others resources
 - k) Misbehaviour at the time during any activity of the Institute and University.
 - l) Engaging in disorderly, lewd, or indecent conduct, including, but not limited to, creating unreasonable noise; pushing and shoving; inciting or participating in a riot or group disruption at the Institute and University.
- Students are expected not to interact, on behalf of the Institute/University, with media representatives or invite media persons on to the campus without the permission of the authorities.
- Students are not permitted to either audio or video record lectures in class rooms or actions of other students, faculty, or staff without prior permission.

- Students are not permitted to provide audio and video clippings of any activity on the campus to media without prior permission.
- Students are expected to use the social media carefully and responsibly. They cannot post derogatory comments about other individuals from the Institute on the social media or indulging in any such related activities having grave ramifications on the reputation of the Institute.
- Theft or abuse of the Institute computers and other electronic resources such as computer and electronic communications facilities, systems, and services which includes unauthorized entry , use, tamper, etc. of Institute property or facilities, private residences of staff/professors etc. offices, classrooms, computers networks, and other restricted facilities and interference with the work of others is punishable.
- Damage to, or destruction of, any property of the Institute/University, or any property of others on the University premises.
- Making a video/audio recording, taking photographs, or streaming audio/video of any person in a location where the person has a reasonable expectation of privacy, without that person's knowledge and express consent.
- Indulging in any form of Harassment which is defined as a conduct that is severe and objectively, a conduct that is motivated on the basis of a person's race, colour, national or ethnic origin, citizenship, sex, religion, age, sexual orientation, gender, gender identity, marital status, ancestry, physical or mental disability, medical condition.

3.2 Policy for Promotion of Academic Integrity and Prevention of Plagiarism

Plagiarism consists of unacknowledged use of someone else's work and attempting to pass it off as one's own. It includes the representation of work: written, visual, practical or otherwise, of any other person, including another student or anonymous web-based material, or any institution, as the candidate's own. It may take the form of:-

- Wholesale verbatim copying or insertion of multiple paragraphs of another person's work (published or unpublished and including material freely available in electronic form and including work of another student) without acknowledgement of sources.
- The close paraphrasing of another person's work by simply changing a few words or altering the order of presentation, without acknowledgement.
- Unacknowledged quotation of phrases from another person's work.
- The deliberate and detailed presentation of another person's concept as one's own.
- Ghostwriting – where a student requests another student or external body to write/produce material for them for purposes of submitting it as their own. This also includes the downloading or purchasing of essays from the Internet.
- Resubmitting one's work in its entirety (or substantial sections) that has previously been submitted for another module or programme.

3.3 Academic Dishonesty & Punishments (Examination)

Ref. No. GTU/UFM/Notification/2013/9271		Date: 15/10/2013
Notification No. 34/2013 [Revised]		
Gujarat Technological University Table Showing Proposed Punishment Details for Unfair Means(UFM) including plagiarism w.e.f. from Winter-2013 examination		
Sr. No.	Unfair Means adopted by the Examinee	Type of Punishment
1	a. Doesn't follow the instructions given by the block supervisor or any competent authority	Declare the Examinee as "Fail" in respective Subject of the current semester summer/winter examination conducted by the authority
	b. Writes irrelevant matter in the answer book	
	c. Deliberately reveals his identity or intentionally makes some irrelevant symbols, sketches etc. in the answer book	
	d. Communicates with another examinee or try to pass on information even after a word of caution from block supervisor or any competent authority	
	e. Possess any of the prohibited electronic gadgets*	
	f. Any sort of writing on the question paper	
	g. Any exam relevant literature found near or just beneath his seat but he/she has not copied from the said material	
	h. Use of indecent or abusing words in the answer book	
	i. Attempts to remove Encrypted code or any sticker on the answer book	
	j. Indulges in writing the matter relevant to subject before commencement of	
	k. Attempts oral communication with another examinee.	
2	a. If the examinee is found in possession or snatches away of notes, chits, answer book or part thereof of any other examinee however he/she has not written from the said material in his/her answer book	Cancellation of result of all the subjects of the current semester Examination conducted by the authority
	b. Indecent behaviour at the examination centre or in the examination hall	
	c. Possess any sort of exam relevant material in the examination hall or even outside the examination hall like toilet, lobby etc. or tries to contact any unauthorized person during the exam timings	
	d. Possess any sort of exam relevant material written/printed on paper chits, compass box, calculator, pad, cloth, hand kerchief, dress or any part of the body or stored in electronic-gadgets including mobile-phone. in the examination hall or even outside the examination hall like lobby etc.	
	e. Attempts to bribe the examiner by mentioning address, contact detail, Mobile No. etc. or to contact the examiner directly or through any representative for his/her favour	

Sr. No.	Unfair Means adopted by the Examinee	Type of Punishment
3	a. Indulges in unfair practice outside the examination hall by any means	<p>Cancellation of result of all the subjects of the current semester examination and debarred to appear in all the subjects of next summer/winter all examinations to be conducted by the authority.</p> <p>#In addition to above punishment for 3N case, the following punishment will also be imposed by the committee.</p> <p>Depending upon the intensity of Mass copy reported by the examiner and same is evaluated by panel of experts as well as UFM committee, GTU will impose following penalty.</p> <p>(A) A show cause notice will be issued to those employee of exam centre and allotted the duty by the centre in-charge on behalf of the university like - Jr. supervisor, Sr. Supervisor as well as centre in-charge where mass copy is proved and also de-organization of the faculty if committee does not accept his/her explanation/clarification against show cause notice.</p> <p>(B) Financial Punishment : -</p> <p>University will also penalise financially to the institution depending upon the nature of malpractice, depending upon the no. of students found guilty of mass copy or other malpractice.</p> <p>(a) Rs. 1000 per student if caught for the first time.</p> <p>(b) Rs. 5000 per student if institute indulged second time.</p> <p>(c) Rs. 10000 per student if institute indulged more than two times.</p> <p>Note: In case it is required by the university to continue the institute as an exam centre then institute will be required to install CCTV and submission of DVD along with GTU observer after every session of Exam.</p>
	b. copied from the subject exam relevant material, Scribble on chits, compass box, calculator, pad, cloth, hand kerchief, dress or any part of the body or stored in electronic-gadgets including mobile-phone.	
	c. Indulge in exchange of answer book, supplementary with other examinee	
	d. Copied from another examinee or deliberately allows other examinee to copy from his own answer book or pass on the exam relevant material or literature in any form to another examinee in exam hall	
	e. If the examiner find some written/printed papers etc. of exam related material from the answer book of an examinee	
	f. Attempts to get rid of or to destroy any kind of exam relevant prohibited material with which he is caught or helps other in such an act	
	g. Examinee is found to throw away his answer book, supplementary, question paper, practical job or part thereof	
	h. If examinee is found to have torn the answer book, question paper, any other exam related material or part thereof of his/her own or other examinee	
	i. if the examiner reports that in the examinee's answer book is written with more than one type of hand writing	
	j. if the examiner reports about missing pages or additional pages in the answer book of examinee	
	k. If the examinee obstruct the process of conducting the examination in any way	
	l. if examinee try to destroy the evidence by chewing the chit or in any other manner, which was found in his possession during examination	
	m. If examinee attempt to bribe by way of Keeping currency notes in his/her answer book	
	n#. if the examination committee is satisfied from the report of the examiner that the candidate have copied from one another or from any other sources or involving in mass copying during the examination	
4	a. if examinee obstructs/threatens or orally assault the block supervisor or any	<p>Cancellation of result of all the subjects of the current semester examination and debarred to appear from next three summer/winter all examinations to be conducted by the authority.</p>
	b. Tries to bring duly written answer book or supplementary from outside	
	c. If the examinee carries away an answer book, supplementary or practical job or part thereof outside the exam hall	
	d. Leaves the examination hall without submitting his answer book or tries to destroy it	

Sr. No.	Unfair Means adopted by the Examinee	Type of Punishment
5	a. If person impersonates as a examinee and if this detected during or after the examination	Cancellation of result of all the subjects of the current semester examination and debarred to appear from next four summer/winter all examinations to be conducted by the authority
	b. If examinee not appearing in that particular examination but who is a candidate of other examination of the university impersonates as a examinee of particularexamination	
	c. If examinee not appearing in that particular examination but who is a candidate of other examination of the university behaves indeciplinary manner during particular examination or helps other examinee in using unfair means	
6	a. Possess Gun, Revolver, Knife or any other prohibited weapon in or around exam hall	Cancellation of result of all the subjects of the current semester examination and debarred to appear from next five five summer/winter all examinations conducted by the authority
	b. Physically assault block supervisor or any competent authority on exam duty	
	c. If an examinee for degree of ME/M.Pharm/MBA/ MCA PhD is found guilty of plagiarism of a thesis/dissertation/ project work during the period of assessment.	Deferred submission of thesis/dissertation/ project work for a period of 3 years in case of ME /M.Pharm/ MBA/ MCA and for aperiod of 5 years in case of PhD for resubmission. The resubmission of the thesis/project work/dissertation shall be with new topic with fresh work. It may be understood that the student will have to go through all the stages of evaluation of his/her new topic including DP1/DP2/Mid Review/ Final Dissertation/ ITD/ Project Review/Progress Review/ DPC whichever is applicable.
	d. If a Candidate who is awarded PhD from the University, is found guilty of plagiarism by the University.	The degree awarded shall be withdrawn by the University.
	e. If an examinee for ME/M.Pharm/ MBA/ MCA/PhD is found guilty of influencing supervisor or any member of adjudication committee or panel for viva voce of resorting to any malpractice.	The examination committee shall decide the penalty depending upon the nature and complexity of involvement of the concerned examinee.
7	if during the examination or afterwards any examinee is found to have indulged in unfair means other than specified in 1 to 6 as above and which has been bearing on the examination or result of the examinee and/or any other examinee	The examination committee shall decide the penalty depending upon the nature and complexity of involvement of the examinee is concerned.
<p>*Final decision is to be taken by the committee based upon the type of electronic gadget and nature of offence (6c,6d,6e)-For the case of plagiarism or any misconduct, a subject expert committee consisting of three persons shall be constituted to verify the case and the committee will submit their report to the university. This report shall be put up before the UFM committee to decide the type of punishment as per the prevailing norms of the university.</p> <p>Note: (1) Summer Exam: May to August ;(2) Winter Exam: November to February;(3) Examination: Any component reflected in students grade cardThis notification is issued with the permission from competent authority.</p> <p>The notification is issued with the approval from competent authority dated 14-10-2013</p>		

Section 4

Infrastructure Details

4.1 GTU GSET Amenities

4.1.1 Shree Aryabhata Seminar Hall

On-campus, a very high-quality seminar hall is available to carry out different curricular and extracurricular activities with the best ICT facility.

4.1.2 Swami Vivekananda Conference Hall

To carry out technical short term programs, expert sessions, staff and student development programs, an expert session exclusive conference hall is available with advance audio-visual facilities.

4.1.3 Dispensary on Campus

In any health-related issues or emergence in the campus doctor is available from 11.00 am to 2.00 pm at the university main building to take care of all the stakeholders of the university.

(Location: GTU main building; C wing – ground floor; Name of the Doctor: Prof. Sanjay Joshi, Email: dispensary@gtu.edu.in)

4.1.4 Major Dhyanand Gymnasium

To enrich health and fitness and create a healthy environment on campus one gymnasium with the latest instruments has been provided and managed by the GTU sports section. All students can go for the daily workout. (Location: Boys Hostel: Ground Floor; Sports Officer: Prof. Akash Gohil, Email: sports@gtu.edu.in)

4.1.5 Girls – Boys Hostel

On-campus highly secured girls and boys hostels are available for a hostel with good quality of foodservice. The infrastructure of the hostel is very luxurious with an excellent studying environment.

(Location: On Campus-Boys Hostel; Coordinator: Prof. Deepak Upadhyay; Email: hostel@gtu.edu.in)

(Location: On Campus-Girls Hostel; Coordinator: Prof. Seema Joshi; Email: gtu_hostel@gtu.edu.in)

4.1.6 Computer Centre

High configuration computers are available. Students can carry out their advanced research on prominent and fast technology compatible systems. To compete with recent software demand extra laboratory has been developed.

4.1.7 Super Computer Research Lab

The most powerful and speedy supercomputer exists at the GTU-GSET. Students can do high profile and real-time research with the help of supercomputers in the field of network security and mobile communication.

4.2 Library & Learning Center

GTU-GSET is determinant to provide facilities to students of a vast ocean of knowledge for the high tech human life, easy and anywhere accessible knowledge for their development. GTU-GSET has been given one remote centre to facilitate ME, students and supervisor.

Accessible Repositories at Library

- ALCE, Presentation: Active Learning Creating Excitement (ALCE) TAB contains available Engineering Branch wise -subject wise material (in PPT format)
- IPR/Patent: IPR TAB gives guidance for patent-related activity
- ALVCOM: TAB provides NPTEL Videos link for viewing and learning purpose
- E-Project/E- Thesis/ E-Dissertation: To improve the novelty of research and innovation through students it is desirable to benchmark prior art and particularly efforts being taken before. More than 30000 projects/Thesis are being submitted to university as a part of academic requirements in UG/PG/other levels. To ensure that the new batch of students either take new projects or carry forward semi-finished projects.

Access Norms

- While entering the library, except for laptops, readers are not allowed to carry their personal belongings (bags, brief-cases, parcels etc.) and eatable items (biscuits, cookies, fruits, chocolates, cold drinks, tea/coffee, etc.). Their belongings should be deposited at the security counter.
- Always carry your library membership card when you visit the library, failing so will forbid your entry to the library.
- Readers should maintain peace in the library and should not disturb other users in any way.
- Loud discussions are allowed only in the discussion area.
- Library's computing facilities and database access is meant for GSET faculty members, students, staff and registered library members only.
- The computer terminals are to be used only for searching for GSET resources.
- Users of the library should note that all e-resources subscribed are licensed materials and cannot be shared with the outside community as it may lead to copyright/license violation.
- Library's photocopying service is available on a demand basis.

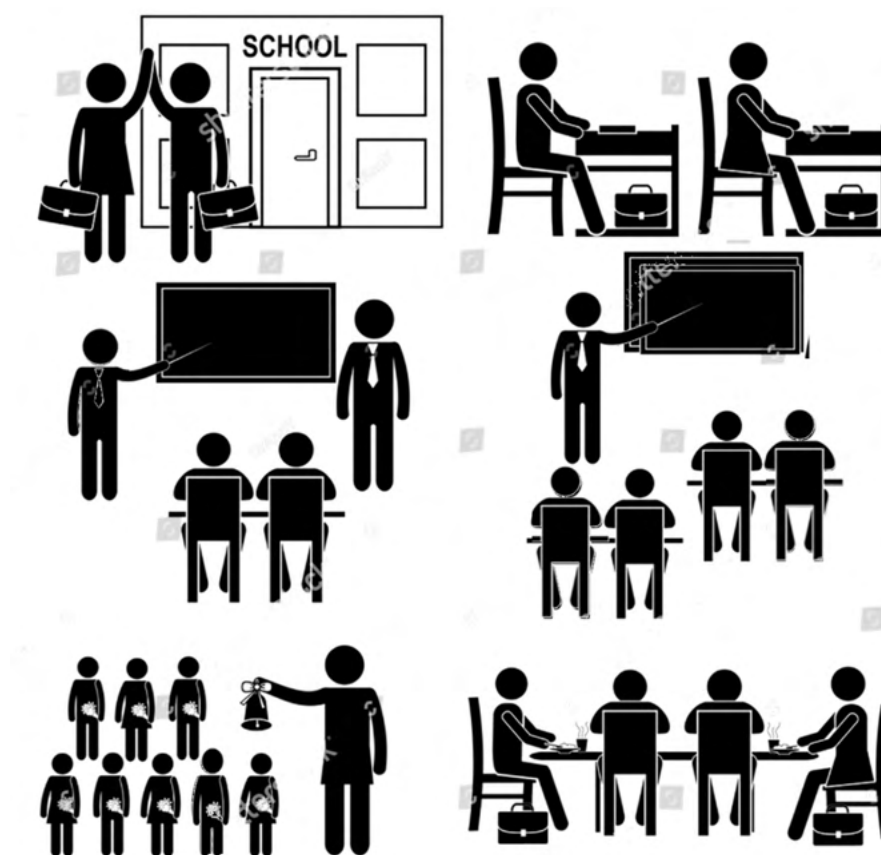
4.3 Student Section

The operative function of the student section is to assist various activities of the institute namely, reporting, enrolment, anti-ragging, student grievance, mentoring, scholarships, student affairs, maintenance of records, and certifications from the institute and the University. All daily routine activities of the students are to be carry-out by the section. Following accomplishments are to be carried out by the section.

- To fill a joining report with required documents after an admission
- To enrol with the Gujarat Technological University (GTU)
- To sign Anti-ragging affidavits; as per AICTE rules and regulations, available @ <https://set.gtu.ac.in/wp-content/uploads/2020/09/AICTE-Ragging.pdf>
- To issue Student I-cards, Library cards, to collect semester receipts and to issue various academic certificates

- To assist students in scholarship schemes, National Scholarship Portal, Mukhyamantri Yuva Swavalamban Yojna (MYSY), AICTE, UGC, Digital Gujarat Portal (OBC, ST, SC etc) as per government rules. For further information, visit <https://set.gtu.ac.in/scholarship/>
- To certify concessional pass from ST/BRTS/AMTS/ Railway public transport services.
- To assist in student grievance and student affairs
- To distribute mark sheet, NAMO e-Tablet to the students and to to circulate various notices regarding student activities.

For further information, visit <https://set.gtu.ac.in/student-corner/>



Section 5

Important Information

5.1 Various Statutory Committee

5.1.1 Department Student Grievance Redressal Committee (DSGRC)

1	Prof. S D Panchal, Professor & Director, GTU-GSET	Chairperson
2	Prof. Sanjay Chauhan, Professor, GTU-GSP	Member
3	Prof. Kaushal Bhatt, Asso. Professor, GTU-GSMS	Member
4	Prof. S K Hadia, Asso. Professor, GTU-GSET	Member
5	Dhruvang patel, Student, MCNT	Special Invitee
6	Jay Mochi, Student, Cyber Security	Special Invitee

- This committee has been formed with reference to GTU/Grievance Circular/2020/ 2442 and UGC regulation 14-4/2012(CPP-II) dated 06/05/2019. The DSGRC shall submit its report with recommendations (if any) to the head of the institute/ Vice Chancellor, with a copy there of to aggrieved students within 15 days from the date of receipt of the complaint.
- Term of chairperson and members of committee shall be for period of 2 years from the date of the issue of this document , special invitees shall be continue as member for period of 2 years or till they remain as student of GSET whichever is less.

5.1.2 SC-ST Cell

1	Prof. A.M. Prabhakar, Principal, GEC Modasa	Chairman
2	Mr. M.N. Parmar, Accounts Officer (Grade I)	Liaison Officer (GTU Representative)
3	Prof. K.N.Kher, Registrar, GTU	Member- Secretary
4	Prof. Pankaj Rai Patel, Director GTU	Member
5	Prof. M.B. Chaudhary, Professor GEC Gandhinagar	Member (ST)
6	Prof. M.N.Charel, GP Dahod	Member
7	Prof. Umesh Pattani, HOD Civil GP Ahmedabad	Member
8	Prof. M.K.Shah Asso. Prof., VGEC Chandkheda	Member(Open)
9	DTE Member	Member
10	DTE Member	Member

- This committee has been formed with reference to GTU/SC-ST-Cell/2016/9080 dated 23/11/2016.
- The committee has to monitor any issue related SC-ST students, counseling of students, regular meeting with the students, and arrangement for students' complaints. If any such incident comes to the notice of the authorities, action should be taken against the erring Students/ Official/ Faculties members promptly as per guidelines of UGC.

5.1.3 Anti-Ragging Committee

1	Prof. Jayesh Deshkar, Principal, VVP College, Rajkot	Chairman
2	Prof. K. N. Mistry Retired Principal	Member Faculty Representative
3	Mr. Ramesh Merja, Addl. Collector, Kheda	Member-Civil Admit]
4	Shri M. N. Parmar Account Officer Class 1 - GTU	Member-Non- Teaching Staff
5	Prof. U. V.Shah	Member-Parents Representative
6	Prof. Usha Neelkanthan, Prof and Head of Electronics and Communication department, L. D. College of Engineering	Member
7	Prof. Rajesh Parikh, Director - GTU	Member
8	Hemlata Varma, Legal Officer/ Consultant	Member Secretary

- This committee has been formed with reference to GTU/Academic/Anti-Ragging/ 2018/7371 dated 03/10/2018.
- The committee has to monitor incidents of ragging either as a victim or as a witness, counseling of students on ragging, regular meeting with the students, arrangement for students' complaints. If any such incident comes to the notice of the authorities, action should be taken against the erring Students/ Official/ Faculties members promptly as per guidelines of UGC

5.1.4 Sexual Harassment & Monitoring Committee (Internal Complaint Committee)

1	Prof. (Dr) Ushma Anerao, Dean & Professor Faculty of Architecture	Presiding Officer
2	CA. Chitrali Parmar, Internal Auditor	Member
3	Mona Chaurasiya, Research Coordinator	Member
4	Prof. Pankajray Patel, Director	Member
5	Prof. Seema Joshi, Asst. Professor, GTU-GSET	Member
6	Prof. Kashayp Thummar, Assistant Professor	Faculty Member
7	Prof. Sarika Srivastava, Assistant Professor	Member
8	Ms. Khushbu Bataviya, Office Superintendent	Secretary
9	Ms. Shailaza Andhare, Stree Chetna, NGO	One Member From NGO
10	<ul style="list-style-type: none"> Juhi A. Zanje (UG)- 170170116061 Modi Gopi R (PG)- 188390593029 Shukla Rena. N (Ph.D)- 159997106014 	Students (If the matter involves students)

- This committee has been formed with reference to GTU/ Sexual Harassment & Monitoring Committee/ 2019/ 4644 Date: 30.05.2019. The committee has to monitor Prevention, Prohibition and Redressal of Sexual Harassment of women/ men employees and Students (girls/boys) in the institution.
- The committee has to monitor any issue related of sexual harassment among staff and students, counseling of students, regular meeting with the students, and arrangement for students' complaints. If any such incident comes to the notice of the authorities, action should be taken against the erring Students/ Official/ Faculties members promptly as per guidelines of UGC.

5.1.5 Women Development Committee

1	Prof. Komal Borisagar Asso. Professor, GTU-GSET	Chairperson
2	Prof. Shweta Bambuwala, Assistant Professor	WDC-GTU Coordinator
3	Prof. Seema Joshi, Assistant Professor	Member
4	Prof. Jignasha Acharya, Assistant Professor	Member
5	Prof. Bhumika Maheria, Assistant Professor	Member
6	Ms. Jenifer Solanki, Office Superintendent	Member
7	Ms. Pinky Panchal Store Officer	Member
8	Ms. Neha Gameti Research Associate	Member
9	Adv. Hemlata Verma OSD	Member
10	Ms. Bhagyashri Vyas Admin Assistant	Member

- This committee has been formed with reference to GTU/ WDC/2019/12408 dated 16/11/2019.
- The committee has to work as per guidelines of the Women Development Committee of the University.

5.1.6 GTU Innovation Council

1	Prof. S. K. Hadia, Asso. Professor, GTU-GSET	Chairperson
2	Prof. Raj Hakani, Asst. Professor, GTU-GSET	Member
3	Prof. Margam Suthar, Asst. Professor, GTU-GSET	Member
4	Prof. Hemal Nayak, Asst. Professor, GTU-GSET	Member
5	Prof. Vagmin Joshi, Asst. Professor, GTU-GSET	Member
6	Prof. Mahesh Panchal, Asst. Professor, GTU-GSET	Member

- The Committee will make awareness amongst students regarding support from GTU innovation council under various schemes.
- Committee will encourage students to apply for funding to GTU Innovation Council for different projects.
- Committee will be responsible to promote the innovation and research environment in the Institute Planning and implementation of the various initiatives taken by university/AICTE/MHRD and UGC in the domain of innovation and start-up

5.2 Institute Level Committees

5.2.1 Internal Quality Assurance Cell (IQAC)

1	Prof. S. K. Hadia, Asso. Professor, GTU-GSET	Coordinator
2	Prof. Komal Borisagar, Asso. Professor, GTU-GSET	Member
3	Prof. Seema Joshi, Asst. Professor, GTU-GSET	Member
4	Prof. Mahesh Panchal, Asst. Professor, GTU-GSET	Member
5	Prof. Palvinder Singh Mann, Asso. Professor, GTU-GSET	Member

- IQAC will work towards standardization of activities and processes and strive for continuous improvements in standards and their achievement.
- It will promote measures for institutional functioning towards continuous quality enhancement through quality culture and establishment of best practices.
- It will help to develop a sound basis for decisions required for improving institutional functioning and the building of an organized methodology of documentation.
- It will establish procedures and modalities to collect data and information on various aspects of institutional functioning for enabling easier and faster decision-making.
- It will enhance quality awareness within the institution and establish the credibility for external accreditation.

5.2.2 Student Support and Counseling Committee (National/International student)

1	Prof. Gautam Makwana, Asst. Professor, GTU-GSET	Coordinator
2	Prof. Seema Joshi, Asst. Professor, GTU-GSET	Member
3	Prof. Komal Borisagar, Asso. Professor, GTU-GSET	Member
4	Prof. Deepak Upadhyay Asst. Professor, GTU-GSET	Member (International Students)
5	Prof. Mahesh Panchal, Asst. Professor, GTU-GSET	Member

- The committee aims to nurture, support and guide in academic, social, personal development, and research services throughout their stay in the institute.
- It helps to enhance the students' effectiveness, ability, and skills to build their healthy lifestyle.
- It handles all services such as joining, enrollment, scholarship, certifications etc.
- Attention toward the international students and related correspondence with the Authority.

5.2.3 Library Committee

1	Prof. Komal Borisagar, Asso. Professor, GTU-GSET	Coordinator
2	Prof. Palvinder Singh Mann, Asso. Professor, GTU-GSET	Member
3	Prof. Rutika Ghariya, Asst. Professor, GTU-GSET	Member
4	Shri Ranchhodbhai Khambhala, Librarian, GTU-GSET	Member

- The committee works to provide state of art library and e-library facilities to all the stakeholder of the Institute
- Committee will provide latest journals, e-books, different magazines as per the requirement of the curriculum.
- Budget planning and utilization under the library head

5.2.4 Academic and Admission Committee

1	Prof. S. D. Panchal Professor & Director, GTU-GSET	Chairperson
2	Prof. Seema Joshi, Asst. Professor, GTU-GSET	Coordinator (Cybersecurity)
3	Prof. Komal Borisagar Asso. Professor, GTU-GSET	Coordinator (MCNT)
4	Prof. Mahesh Panchal, Asst. Professor, GTU-GSET	Coordinator (PG-DS)
5	Prof. Gautam Makwana, Asso. Professor, GTU-GSET	Coordinator (IOT)

- The committees will work for academic planning, reforms, internal examination planning and execution
- Course/Student progress monitoring during the term
- Information booklet
- Result Analysis and review
- The committee works as per the guidelines of ACPC and GTU authorities for admission process of various Institute programs.
- Committee will work for admission promotion, student's inquiry, whole admission procedure.

5.2.5 Scrutiny Committee for Seed Money Scheme of GTU

1	Prof. S. D. Panchal, Professor & Director, GTU-GSET	Chairperson
2	Prof. S. K. Hadia, Asso. Professor, GTU-GSET	Coordinator
3	Prof. Gautam Makwana, Asso. Professor, GTU-GSET	Member
4	Prof. Seema Joshi , Asst. Professor, GTU-GSET	Member

- The committee has to review proposals for seed money schemes received from faculties/students of GSET.
- Committee will scrutinize proposals as per guideline of GTU SMS policy and submit them to University IQAC.

5.2.6 Scrutiny Committee for AICTE-Doctoral Fellowship programme

1	Prof. Gautam Makwana, Asso. Professor, GTU-GSET	Coordinator
2	Prof. S. K. Hadia, Asso. Professor, GTU-GSET	Member
3	Prof. Koma Borisagar Asso. Professor, GTU-GSET	Member

- ADF admission process and per GTU norms
- Follow the rules and regulations and the AICTE/GTU directives
- The committee aims to scrutinize applications for Ph.D. program and responsible for correspondence with AICTE, and monitor the progress of Ph.D. status of the students.

5.2.7 Research, Consultancy & Publications Committee

1	Prof. S D Panchal, Professor & Director, GTU-GSET	Chairperson
2	Prof. S. K. Hadia, Asso. Professor, GTU-GSET	Coordinator
3	Prof. R A Thakkar, Adj. Professor, GTU-GSET	Member
4	Prof. Gautam Makwana, Asso. Professor, GTU-GSET	Member
5	Prof. Komal Borisagar, Asso. Professor, GTU-GSET	Member
6	Prof. Seema Joshi, Asst Professor, GTU-GSET	Member
7	Prof. Palvinder Singh Mann, Asso. Professor, GTU-GSET	Member

- To promote the Research and Consultancy in the Institute
- To develop overall research Oriented ecosystem in the Institute
- To proliferate the various grant information among the various faculties
- To plan/organize skill enhancement programs for the faculties and students

5.2.8 Tech-Fest, Cultural and Sport Promotion Committee

1	Prof. Deepak Upadhyay Asst. Professor, GTU-GSET	Coordinator
2	Prof. Rutika Ghariya, Asst. Professor, GTU-GSET	Member
3	Prof. Mridul Seth, Asst. Professor, GTU-GSET	Member
4	Prof. Raj Hakani, Asst. Professor, GTU-GSET	Member
5	Prof. Hemal Nayak, Asst. Professor, GTU-GSET	Member

- The formation of the various student clubs (Technical and Non-Technical)
- The committee aims to promote co-curricular and extra-curricular activities in the Institute
- To promote the sport culture and to organize the sports event in the Institute
- Mentorship support to various student club
- Encourage students for participation in various events

5.2.9 Institute Newsletter Committee

1	Prof. S. D. Panchal, Professor & Director, GTU-GSET	Chairperson
2	Prof. Rutika Ghariya, Asst. Professor, GTU-GSET	Member
3	Prof. Gautam Makwana, Asso. Professor, GTU-GSET	Member
4	Prof. Mahesh Panchal, Asst. Professor, GTU-GSET	Member
5	Shri Ranchhodbhai Khambhala, Librarian, GTU-GSET	Member

- To publish the Institute newsletter quarterly.
- Data collection and selection for to publish in the newsletter

5.2.10 Institute Store and Purchase Committee

1	Prof. Seema Joshi, Asst Professor, GTU-GSET	Coordinator (Purchase)
2	Prof. Gautam Makwana, Asso. Professor GTU-GSET	Coordinator (New Campus)
3	Komal Prajapati, Lab Assistant, GTU-GSET	Member
4	PI / Co-PI / Concern Faculty	Invitee

- To look in the Institute purchase matters
- Necessary approvals and bill passing process
- Dead stock/Consumable register update
- Lekawada Campus Planning

5.2.11 Industry and Outreach Committee

1	Prof. R A Thakker, Adj. Professor, GTU-GSET	Chair Person
2	Prof. Gautam Makwana, Asso. Professor GTU-GSET	Member
3	Prof. Mahesh Panchal, Asst Professor, GTU-GSET	Member
4	Prof. Seema Joshi, Asst Professor, GTU-GSET	Member
5	Prof. Palvinder Singh Mann, Asso. Professor, GTU-GSET	Member

- The Committee will be responsible for to organize Industry visit, Placement Fair, Open House events, Form Industry advisory board for each Programs.
- Pre-placement activities

5.2.12 ICT & Estate Committee

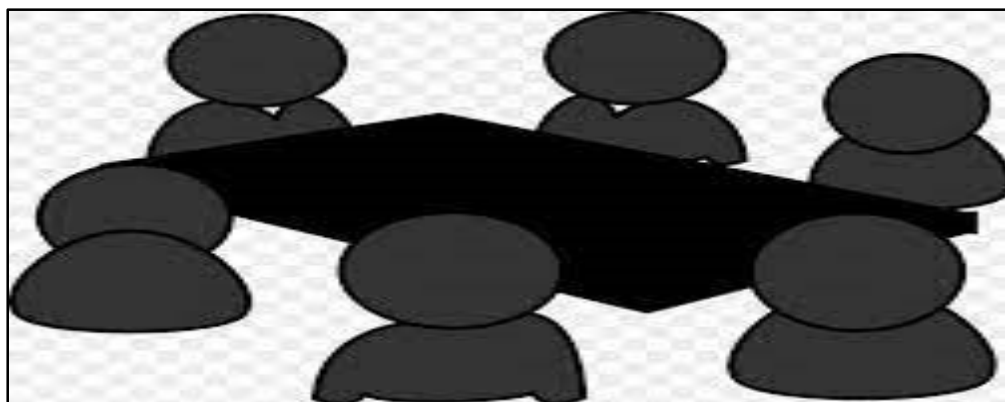
1	Prof. Mahesh Panchal, Asst. Professor GTU-GSET	Coordinator
2	Prof. Deepak Upadhyay, Asst Professor, GTU-GSET	Member
3	Prof. Mridul Seth, Asst Professor, GTU-GSET	Member
4	Shri Harishbhai Vaghela, office assistant, GTU-GSET	Member

- ICT Planning and Execution monitoring
- Estate related development and maintenance related work
- Liaison with University IT and Estate Department
- Overall Institute ambience monitoring
- Institute website update and monitoring
- Social Media Handling

5.2.13 Skill Enhancement Program Committee

1	Prof. S. D. Panchal Professor & Director, GTU-GSET	Chairperson
2	Prof. Mahesh Panchal, Asst. Professor GTU-GSET	Member
3	Prof. Deepak Upadhyay, Asst Professor, GTU-GSET	Member
4	Prof. Mridul Seth, Asst Professor, GTU-GSET	Member
5	Prof. Margam Suthar, Asst Professor, GTU-GSET	Member
6	Prof. Palvinder Singh Mann, Asso. Professor, GTU-GSET	Member

- The planning of skill enhancement programs and monitoring
- Expert Talk/ Seminar/ Workshop/FDP etc planning and monitoring
- To start professional student chapters



5.3 Saptak-The Seven Clubs

GTU-Graduate School of Engineering and Technology has formed 7 clubs for the welfare of students, faculty members and it's all stakeholders.

The objectives of the saptak clubs are:

- To make students socially responsible for the environment and cultural heritage as the clubs are for the students and by the students.
- Improving skill-sets and knowledge to share with others.
- Learning practical things together and to build a network with peers and mentors.
- Learning collaboratively and sharing technical expertise.
- Hands-on practice with tools and frameworks being used in the industry to develop solutions.
- Bringing up the students innovative side and come up with great ideas, discuss with others and plan its execution.
- Learning to have a positive attitude towards life.

The clubs are divided into two categories:

- 1) Technical Clubs
- 2) Non-Technical Clubs

Technical Clubs

- 1) GTU-GSET Cyber Security Club
- 2) GTU-GSET MCNT Club
- 3) GTU-GSET Data Science Club
- 4) GTU-GSET Innovation and Research Club

Non-Technical Clubs

- 1) GTU-GSET Social Service Club
- 2) GTU-GSET Environment Club
- 3) GTU-GSET Cultural Club

Sr No	Club Name	Faculty Mentor
1	GTU-GSET Cyber Security Club	Prof. Deepak Upadhyay
2	GTU-GSET MCNT Club	Prof. Raj Hakani
3	GTU-GSET Data Science Club	Prof. Mahesh Panchal
4	GTU-GSET Inovation and research Club	Prof. Komal Borisagar
5	GTU-GSET Social Service Club	Prof. Seema Joshi
6	GTU-GSET Enviroment Club	Prof. Mridul Seth
7	GTU-GSET Techfest-sports-cultural Club	Prof. Rutika Ghariya



• **Staff Details**

Teaching Staff Details

Sr. No.	Faculty Name	Designation	Qualification	Area of Research
1	Prof. S.D. Panchal	Professor and Director	Ph.D.	Image Processing and Network Security
2	Prof. Rajesh Thakkar	Adjunct Professor	Ph.D.	VLSI, Image processing and Micro Electronics
3	Prof. S.K. Hadia	Associate Professor	Ph.D.	Wireless Communication, Data Communication, IoT
4	Prof. G.D. Makwana	Associate Professor	Ph.D.	Machine Learning, IoT, 5G Technology, RF and Antenna
5	Prof. K.R.Borisagar	Associate Professor	Ph.D.	Wireless Communication, Data Communication, IoT
6	Prof. Palvinder Singh	Associate Professor	Ph.D.	Soft Computing, Cloud Security, WSN
7	Prof. S.B.Joshi	Assistant Professor	M.Tech. (CSIR), Ph.D. (Pursuing)	Cloud Security, Blockchain Technology, Malware Analysis
8	Prof. Mahesh Panchal	Assistant Professor	ME (CE), Ph.D. (Pursuing)	Artificial Intelligence, Blockchain Technology, Machine Learning
9	Prof. Deepak Upadhyay	Assistant Professor	ME(IT), Ph.D. (Pursuing)	Cyber Security, Machine Learning , IoT
10	Prof. Margam Suthar	Assistant Professor	ME(EC) Ph.D. (Pursuing)	Wireless Communication, Data Communication
11	Prof. Hemal Nayak	Assistant Professor	ME(EC), Ph.D. (Pursuing)	Networking, Adhoc Network and IoT
12	Prof. Vagmin Joshi	Assistant Professor	ME(EC)	Digital Design, VLSI, IoT
13	Prof. Raj Hakani	Assistant Professor	ME(EC), Ph.D. (Pursuing)	Robotics, RF and Antenna Design
14	Prof. Rutika Ghariya	Assistant Professor	ME (EC)	Optimization and Antenna Design
15	Prof. Mridul Seth	Assistant Professor	ME (Civil)	Water Resource and Environment

Supporting Staff Details

Sr No	Name of the Staff Member	Designation	Section
1	Mr. Ranchhod Khambhala	Librarian	Library-GSET
2	Ms. Komal Prajapati	Lab Assistant	EC/Computer Department-GSET
3	Mr. Jeet Joshi	Skill Development Coordinator	GTU
4	Mr. Harish vaghela	Office Assistant	HR-GSET
5	Ms. Aditi Darji	Office Assistant	Student Section-GSET
6	Ms. Zalak Nayak	Office Assistant	Bosch CoE
7	Mr. Mehul Senma	Peon	GSET
8	Mr. Sagar Soni	Peon	GSET

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