



**GSFC**  
**UNIVERSITY**  
EDUCATION RE-ENVISIONED

# **B.TECH.**

## **FIRE & ENVIRONMENT, HEALTH, SAFETY**

**(SCHOOL OF TECHNOLOGY)**



**GUJARAT'S FIRST UNIVERSITY  
TO OFFER B.TECH. FIRE & ENVIRONMENT,  
HEALTH, SAFETY (F&EHS)**

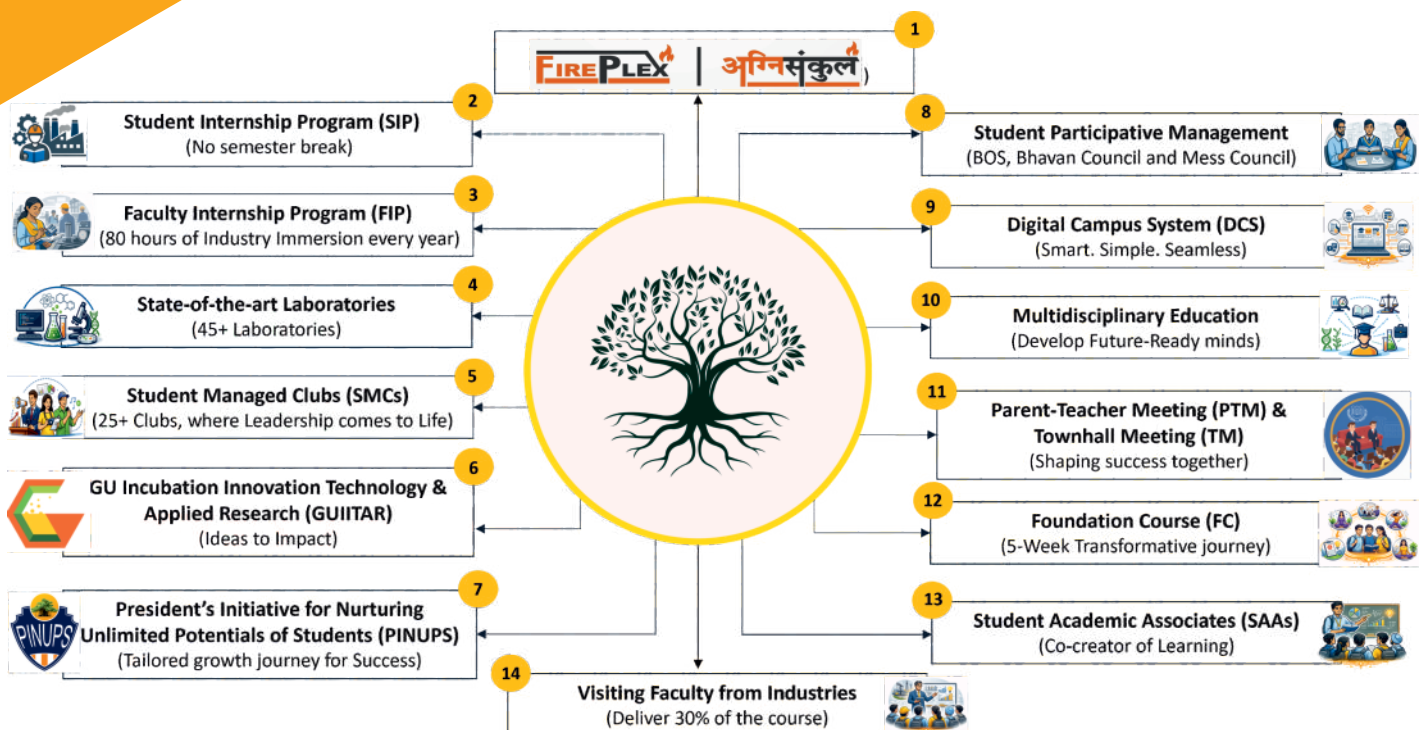
## ABOUT GSFC UNIVERSITY:

GSFC University is a Private University, and a corporate social responsibility (CSR) initiative of Gujarat State Fertilizers & Chemicals Ltd.(GSFC), Vadodara, Gujarat - a company promoted by the Government of Gujarat'. GSFC University is a private university incorporated under the Gujarat Private Universities Act, 2009 through GSFC Education Society in Dec. 2014. The GSFC University was established in 2015-16.

The vision of GSFC University is to be the best compact boutique institution with a futuristic approach, encouraging student-centric culture and sharpened focus on developing industry-ready & employable students with all-round development. The Governing Body and Board of Management of GSFC University comprises eminent people from the Industry, Government & Academia and it is spearheaded by Shri P.K. Taneja, (IAS Retd.) the president of GSFC University. GSFC University was started in 2015 with 2 UG programs and 141 students . Today there are 22 programs and approximately 3200 students in Undergraduate and Post Graduate Programs.



## DIFFERENTIATORS / USPs:





## B.TECH IN FIRE & ENVIRONMENT, HEALTH, SAFETY (F&EHS):

The B.Tech program in Fire & Environment, Health, Safety (F&EHS) at GSFC University is a comprehensive course that encompasses a wide range of critical topics, including:



**Fire Dynamics:** Understanding the principles and behavior of fire



**Fire Protection Systems:** Comprehensive study of systems designed to detect and extinguish fires



**Building Fire Protection:** Strategies for safeguarding structures against fire



**Structural Behaviour of Building Materials:** Analysis of materials used in construction and their response to fire



**Design of Fire Systems:** Engineering of fire detection and suppression systems



**Safety Engineering:** Application of engineering principles to ensure safety in the workplace



**Fire & Safety in Major Accident Hazards:** Management of fire safety in high-risk environments



**Safety in the Chemical Industry:** Specific safety considerations for the chemical sector



**Legislations Related to Fire & EHS:** Legal framework governing fire safety and environmental health



**Fire & Safety Codes:** Standards and codes of practice for fire safety



**Rescue Techniques:** Methods and procedures for rescuing individuals from hazardous situations



**Hazardous Waste Management:** Handling and disposal of hazardous materials



**Environment Impact Assessment:** Evaluation of the potential environmental effects of a proposed project



**Industrial Hygiene and Toxicology:** Study of workplace health hazards and the effects of toxic substances



**Occupational Health:** Promotion and maintenance of the highest degree of physical, mental, and social well-being of workers

For a detailed curriculum, please scan the accompanying QR code.



Scan here

### Other Programs

The department of F&EHS also offers other programs:

### Post Graduate Diploma in Industrial Safety (1 Year)



Scan here

## INFRASTRUCTURE AND FACILITIES UPGRADES

### Campus Development

GSFC University's campus is a vibrant blend of modern architecture, sustainability, and academic functionality. Designed to provide an inspiring learning environment, it features advanced infrastructure, smart facilities, and spaces that encourage collaboration, innovation, and well-being.

The University's infrastructure reflects its commitment to academic excellence, safety, and holistic student development, offering an ecosystem that integrates technology, sustainability, and comfort.



# CAMPUS AMENITIES:



06 Academic and Administrative Buildings



43 Lecture / Tutorial Halls



48 Laboratories / Workshops



INFOPLEX (Digital Display Units) for real-time campus communication



Studio Facility for creative learning and design



Smart Auditorium & High-Tech Classrooms with Digital podiums



Digital Campus System (DCS) and Digital Library for e-resources



Knowledge Hub (Library)



24/7 Security and Medical Facilities



Conferencing and Meeting Facilities



Sports and Recreation Areas promoting physical fitness



HealthPlex (Gymnasium) for wellness



AANGANVA (Amphitheatre) for cultural and student activities



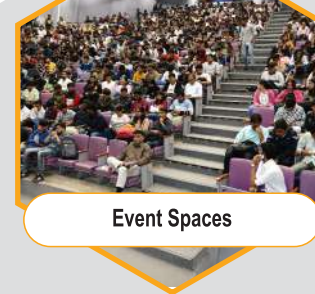
SNACKSPLEX (Canteen) and FOODPLEX (Mess) for nutritious dining



Hostel accommodation for Girls & Boys



Fire Plex-Centre of Excellence for Fire & Safety



Event Spaces



Fire & EHS Laboratories

## PRACTICAL DRILLS AND TRAINING:

At GSFC University, students enrolled in the B.Tech Fire & Environment, Health, Safety (F&EHS) program engage in a rigorous regimen of practical training and drills designed to prepare them for real-world challenges. These exercises include:

1. Physical Training
2. Firemanship
3. Hydrant Drills
4. Fire Extinguisher Usage equipment
5. First Aid & CPR
6. Rescue Operations
7. Foam Tender Operations:
8. Ladder Drills
9. Building Firefighting
10. Breathing Apparatus
11. Confined Space Operations
12. Hazardous Materials Handling
13. Scaffolding
14. Fire Detection Systems
15. Industrial Health and Hygiene
16. Noise Pollution Measurement
17. Mock Drills



## UNIFORM REQUIREMENTS:

To foster a sense of discipline and professionalism, students of the B.Tech Fire & EHS program are required to adhere to a uniform dress code:

- Drill Attire: Navy blue coverall Dangiri, suitable for both men and women, paired with a protective cap
- Classroom Uniform: A crisp white shirt, black trousers, shoulder badge, belt, black shoes, and a formal cap

Uniforms are to be acquired by the students upon admission to the program, ensuring that students are appropriately equipped for both practical drills and academic sessions.





## ELIGIBILITY CRITERIA, FEE STRUCTURE AND ACCOMMODATION DETAILS FOR B.TECH (FIRE & EHS) :

For information about the Eligibility criteria, Fee structure and Accommodation details for students interested in the B.Tech - Fire & Environment, Health, Safety program visit our website : <https://www.gsfcuniversity.ac.in/apply-for-admission>

## FIREPLEX (AGNISANKUL): PREMIER TRAINING FACILITIES **FIREPLEX** | अग्निसंकुल

GSFC University has developed the FIREPLEX (AgniSankul) in the total plot area of 2875sq mtr. It was duly commissioned in September 2023. FirePlex is duly approved Centre of Directorate of Government of Gujarat for Industrial Safety and Health (DISH) for training on industrial Safety and Health under section 111A of Gujarat Factories Act -1948.

### FIRE DRILL GROUND



A dedicated space for conducting comprehensive fire drills.

### FIRE PUMP HOUSE



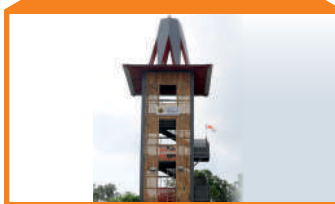
Equipped with the latest technology for firefighting simulations.

### SPECIALIZED ROOMS



Including a Sprinkler Room, Foam Spray Room, and Smoke Chamber.

### FIRE DRILL TOWER



An imposing structure for advanced firefighting training.

### BREATHING APPARATUS ROOM



A robust network for firefighting practice.

### WATER SPRAY SYSTEMS



Both Medium and High Velocity Water Spray Systems (MVWS, HVWS) for diverse training scenarios.

The university is committed to helping students achieve academic excellence by providing the finest resources and support for their educational journey

## PLACEMENTS

The B.Tech. (Fire & EHS) students have successfully graduated with a 100% on-campus placement record in reputed organizations such as Gujarat Narmada Fertilizers & Chemicals Ltd (GNFC), Gujarat Chemical & Ports Ltd., Adani Group, Amazon, Reliance, Jindal Saw, IMC, Gujarat State Petronet Ltd. (GSPL), United Phosphorus Ltd., and other leading companies across India. Additionally, several students have pursued higher education at reputed international institutions such as the University of Maryland (USA), the University of Salford (UK), and Centennial College (Canada).

### PASS-OUT BATCH 2023



Harsh Patil



Yash Salunke



Amol Jadhav



Mohit Fatkar



Chirag Bamniya



Darshan Patel



Harsh Swami



Tej Dhruve



Radhika Bakshi





**Yashkamal Prasad**



**Nitin Rai**



**PASS-OUT BATCH 2024**



**Prabhat Singh**



**Tirth Brahamkshatriya**



**Hemang Pankhania**



**Kuldeep Yadav**



**Kalpiti Raundal**



**Ashutosh Pothal**



**Soumya Sahoo**



PASS-OUT BATCH 2025



Deepakkumar Ahir

adani



Moksha Suthar

adani



Dev Jaiswal

adani



Yuvrajsinh Gandhvi



Vidit Khona



PASS-OUT BATCH 2026



Aditya Makwana



GSPL India Gasnet Limited



Jenil Patel



GSPL India Gasnet Limited



Sarvar Gulam



GSPL India Gasnet Limited



Nisarg Patel



Akshat Kahol



## MoU / Collaborators



### CONTACT DETAILS

**Mr. A. Srikrishnan**  
Head of the Department,  
Fire & EHS  
9712484227

**Mr. Bimal Bhayani**  
Professor of Practice,  
GSFC University  
9879512957



For Admission  
Scan QR code



**GSFC**  
**UNIVERSITY**  
EDUCATION RE-ENVISIONED

Anviksha, Fertilizernagar, Vadodara

For more information,  
Call us at 0265-3093740/+91 75730 02444 or  
log on to [www.gsfcuniversity.ac.in](http://www.gsfcuniversity.ac.in)



GSFC\_University



gsfcuniversity



gsfcuniversity



gsfcuniversity



gsfcuniversity