

Frequently Asked Questions

BTech Fire & Environment, Health, Safety - GSFC University

1. What are the Fire & Safety courses offered in GSFC University?

GSFCU is currently offering full-time 4-year B. Tech in Fire & Environment, Health, Safety. Admission is given through ACPC merit/JEE/GUJCET score.

2. Can Diploma students join B Tech - Fire & EHS Engineering?

Yes, students who have successfully completed 3 years diploma in any field of engineering (mechanical, chemical, civil etc.) can get admission under lateral entry (diploma to degree)

3. Is there any Physical fitness criteria required for B. Tech Fire & EHS?

No Physical fitness criteria is required to meet the eligibility criteria. Students who are physically & mentally fit are eligible.

4. What does the Fire & EHS Engineering program focus on?

The program of Fire & EHS engineering focus mainly on the following topics:

- Fire Prevention techniques
- Fire protection system & its design
- Firefighting systems and its applications
- Safety Management
- Hazard Identification, Risk Assessment & Control Techniques
- Legislations related to Fire & Environment, Health, Safety
- Safety Engineering
- Industrial Hygiene & Health
- Occupational Health & First Aid
- Environment management techniques
- Municipal, solid and hazardous waste management etc.
- Process Safety Management

5. How is Fire & EHS Engineering of GSFC University different from other Universities?

GSFC University is the first University in Gujarat to start Full time Fire & EHS Engineering program in 2019. GSFCU being a CSR initiative of GSFC Ltd is following a medical college model and here the students undergo both practical & theory related to subjects. The unique features of GSFC University are

- GSFCU students have access to well-equipped 2 Fire stations, 7 Fire tenders, Snorkel and other modern equipment related to Fire & Safety department, GSFC Ltd.
- GSFCU students also have access to Environment control department & ETP / STP of GSFC Ltd.
- Well-equipped Medical Centre with experts in the field of first aid and occupational health & safety.
- The exposure of students to the operational plants, on site experience and training by Industrial Professionals
- MoU with major industries and Academic institutions like AAI, GIDM, IIT-Gandhinagar, University of Maryland, Victoria University.

6. How does Fire & EHS program provide Industrial exposure?

- During industrial training/ internships, students are directly connected to industry mentors and get hands-on experience after every semester for 4 weeks.
- Mandatory Industrial Internship after every semester (total 7 internship)
- Two Industry defined projects Major & Minor (7th & 8th semester)
- Talk by industrial experts / hands on training workshops, panel discussions and industrial visits are part of regular activities in each semester.
- Club Events are being organized and coordinated by the students are very helpful to improve their leadership skills.
- Further Physical Training & firefighting Drills are also being organized regularly to enhance their firefighting skills

7. What are the infrastructure facilities at GSFCU for B. Tech Fire & EHS Engineering?

GSFCU has developed well-equipped labs and infrastructure for B. Tech Fire & EHS like Safety Lab, Fire lab and Fire testing & Environment labs as well as developing modern training ground. Airport Authority of India has promised 1 crore CSR fund for the procurement of advance & specialized equipments in Fire & EHS. GSFC University is working in close association with GSFC Ltd Fire & Safety, Environment & Medical department for proper utilization of infrastructure facilities for students

8. What are the potential career paths for B. Tech Fire & EHS Engineering?

It is important to understand the market demand, requirement and potential career paths for the students studying B. Tech Fire & EHS is in great demand due to the limited number of institutes offering these specialized courses in India. Here are a few of the requirements for some of the roles that are currently in high demand. The course is finding high demand both nationally and internationally.

- Fire & Safety Officers
- Fire & Safety Auditors
- HSE Engineer
- Fire Protection engineer
- Safety officers
- Fire specialist officer
- Chief fire officer
- Loss prevention officer
- HSE Professionals
- HSE consultants
- Fire & EHS consultants
- Fire & EHS advisors
- Fire & EHS Designers

9. What are the courses taught in B. Tech Fire & EHS Engineering?

Courses offered by F&EHS - GSFCU, are related to branch specific as well as covers core subjects of engineering courses

- Fundamental courses:** Basics of Electrical & Electronics, Mathematics - I, Engineering Physics, Engineering chemistry, Engineering Fundamentals
- Core subjects:** Safety management, Legislations related to Fire & EHS, Safety in Construction industry, HIRAC, Fire Dynamics, building fire protection & prevention, Rescue techniques & equipment, fire protection systems, fire & safety codes, fire & safety hazards in special sectors, industrial hygiene & health, occupational safety & first aid, Environmental protection, solid & municipal waste management, Passive fire protection, structural fire protection etc.

- C. **Elective courses:** Safety Engineering, Chemical Process Safety -1, Smoke control systems, causes accidents & their prevention techniques.
- D. **Ability Enhancement Compulsory Courses:** Communication Skills in English, Fundamentals of English, Disaster Risk Management, Environmental studies, Indian constitution & Entrepreneurship development.
- E. **Skill Enhancement courses:** Case study, seminar, safety audits, fire ground practicals, Industry defined projects

10. What are the practical training courses offered?

Semester	Fire & EHS
III	Two weeks industrial training at Fire & Safety Department GSFC Ltd
IV	Rescue techniques practicals, Fire Ground Practical-1, building fire prevention & protection
V	Fire service operations, First aid techniques, Fire ground practicals -2
VI	Fire protection systems, special fire & safety hazards & safety Audit training
VII	Fire protection systems

GSFC University also conducts intermittent Mock Drills and other special trainings and visits to provide practical training exposure in association with Industries.

11. Do you provide sports facility?

Yes. We have additional facility for all the games such as badminton, cricket, basketball, volleyball, swimming, chess, carom, golf, gym etc. Besides, the students will have the opportunity to be trained by recognized coaches and national and international players of the game through the GSFC Ltd.'s sports department on nominal chargeable basis.

12. Do you provide Hostel facility?

Yes. A fully developed, safe and secured hostel facility with a mess is available within the GSFC Fertilizernagar Township for girls and boys. There are 71 rooms in boys' hostel and 20 rooms in girl's hostel. Both the hostel facilities are Wi-Fi enabled and well furnished with entertainment, food and other facilities.

13. Do you provide transportation facilities to reach GSFC University?

The University campus can be reached by public transport from Vadodara city. All the buses going to Dashrath village can be used for this purpose. The University also runs buses on chargeable basis as per university timing. The information regarding the same can be collected from the administration office.

14. How is GSFC University campus girl friendly?

The Campus is situated inside the GSFC Ltd township, which has 24 x 7 surveillance. The University also offers comfortable and convenient residence for girls. The residential complex provides accommodation on sharing basis and ensures safety and well-being for all girls. The complex is designed to give the residents a sense of home and living in a big family.

15. How to apply for admission?

To know the admission procedure and other details please visit <https://www.gsfuni.edu.in/apply-for-admission> and register yourself.