

### PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

- To educate young learners who pursue careers as practicing chemical engineers in traditional as well as emerging fields.
- To function effectively in the complex modern work environment with the ability to assume professional leadership roles.
- To contribute to the economic and industrial growth and prosperity of country, and society at large.
- To be successful in pursuing higher education for continuous development of their knowledge and skills.

### PROGRAMME OUTCOMES (PO)

- To be able to design and conduct experiments, as well as to analyze and interpret data.
- To demonstrate problem-solving and thinking skills.
- To have the ability to use computers effectively for engineering practices.
- To be able to communicate effectively across range of context and audiences.
- To work as a member of multidisciplinary team leadership and coordination.
- To develop confidence to work independently and in a team to accomplish a common goal.
- To have an appreciation of contemporary issues relevant to chemical engineering.
- To have a working knowledge of chemical process safety, health and environment.
- To inculcate professional and ethical responsibility.

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## 4<sup>th</sup> One day Extramural Seminar on Workplace Safety, Health & Hygiene

September 20, 2018



Department of Chemical Engineering  
G H Patel College of Engineering & Technology  
Vallabh Vidyanagar -388 120, Gujarat,  
(A Charutar VidyaMandal Institute)  
www.gcet.ac.in

Supported by



### Preamble

A healthy workplace is vital for the sustainable social and economical development on global, national and local level. The classic approach to ensuring occupational health, safety and hygiene in the workplace depends mainly on the enactment of legislation and inspection of workplace to ensure compliance with safety, health and hygiene standard. This approach has been effective in controlling many occupational hazards. Laboratory activities and demonstrations represent an essential part of effective engineering, technology and science teaching. Although many science activities present potential hazards, reasonable and prudent safety practices greatly reduce the likelihood of accidents. When lab personnel and students adhere strictly to standard safety precautions, they are unlikely to encounter any risks. Knowing about possible hazards and taking precautions are the basis for creation a safe learning environment. Teachers, as well as students, must be aware of ergonomics as a tool for the healthier and safer working conditions at work place. Science and Engineering teachers must be the advocates of safety and need to have the information and necessary attitudes to bring appropriate safety standard

### Topics to be covered:

- Occupational safety and health: A general overview
- Good safety practices in laboratories.
- Diseases, disorders and injuries, related to the workplace environment
- Hazardous chemicals
- Safety in workshop.
- Electrical safety
- Safe practices for using computer.
- Safety Audit
- Laboratory first aid
- Biomedical waste handling

### Who can attend:

Faculty members, Senior PG /PhD students, Lab technicians, and lab assistants working in various engineering and science laboratories and also operators and personnel working in local industries.

### Registration fees:

Rs. 200/- From academic Institution)

Rs 400/ (from Industry)

All payments should be made through Cheque drawn in favour of principal, G H Patel College of engineering & Technology payable at Vallabh Vidyanagar or by Cash.

Last date of Registration: August 30, 2018

### The Institute & the Management

The Institute, G H Patel College of Engineering & Technology (GCET) is managed by the highly reputed and the largest educational trust of Gujarat, Charutar Vidya Mandal (CVM), established in 1945 for the upliftment of rural education. Over the span of 60 years CVM has been making spectacular progress by venturing into various emerging disciplines. Today CVM is nurturing 49 educational institutions of diverse types contributing to the panoramic growth of Vallabh Vidyanagar and New Vallabh Vidyanagar.

From the very inception (in the year 1996) GCET has striven to develop itself into an 'Institution of Excellence' in education and research in consonance with the spirit of modern Gujarat. In meeting this challenge for excellence, GCET has shaped its institution to the contemporary as well as future demands of need-oriented education. Today GCET has a total strength of 2000 students studying for Chemical, Mechanical, Information Technology, Electronics & Communication, Computer, Electrical Engineering, Mechatronics and civil engineering under the tutelage of 125 dedicated and competent faculty members. We also have seven post graduate programmes including the one in Chemical Engineering. Our college was ranked 23<sup>rd</sup> among top 100 engineering college across country in 2016-17 (Data Quest June 2017) and in the Times survey (2018) GCET secured 79<sup>th</sup> rank in the top 150 engineering institutes in India. GCET also honored by ABP News National Education Awards 2016 with "outstanding engineering institute of the west"

Department of Chemical Engineering (Accredited by the National Board of accreditation)

Department of Chemical engineering of G H Patel College of Engineering & Technology (GCET) was established, in

1996 as one of the first undergraduate self financed (unaided) engineering disciplines along with Information technology in the state of Gujarat. Originally affiliated to Sardar Patel University, GCET is now one of the affiliated colleges under Gujarat Technological University The department, having an intake of 60 students, has so far produced more than 1100 chemical engineering graduates. The Department currently has thirteen faculty members who bring to the Department a wealth of expertise to maintain a vibrant teaching and research environment. It has thirteen laboratories with total of more than 140 equipment, pilot plants, analytical and bench-scale experimental set ups to cater the need of undergraduate curriculum of B.E (Chemical Engineering) and post graduate curriculum M.E (Chemical Engineering) of Gujarat Technological University. Today many of our distinguished alumni hold respectable positions in industries like Reliance Petrochemicals, Nayara energy, Tata Chemicals, L & T, TCS, Infosys, GSFC, Atul limited and many more. Faculty members have a good frequency of publication in peer reviewed National and International journals.

### Department of Chemical Engineering

### Vision

To be a nationally recognized leading Chemical Engineering Department with outstanding teaching-learning, and top-notch industry-linked research and development activities.

### Mission

- To produce graduates with a strong foundation of engineering, technical and scientific knowledge.
- To foster acquired knowledge and develop technology through excellence in research, in core as well as in the interdisciplinary fields of chemical, biochemical, systems, materials and environmental engineering.
- To contribute to the sustainable development of the nation and the quality of life of the people through leadership in professionalism, education, research and public services.