

## V. UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY

### ABOUT THE INSTITUTE

University Institute of Engineering & Technology (UEI) was established by Panjab University as a Department in 2002

. It offers four years Bachelor of Engineering (BE), two years Master of Engineering (ME), and full time PhD degrees in Biotechnology Engineering, Computer Science and Engineering, Information Technology, Electrical and Electronics, Electronics and Communication and Mechanical Engineering. Besides this, it also offers Master of Engineering programs in Computer Science and Engineering (Cyber mp mpU

	<b>Damrajset Kaur</b>	<b>Power Systems Optimization, Distribution Systems Planning Optimization Using AI Techniques</b>
	<b>Mukesh Kumar</b>	<b>Social Media Analysis, Natural Language Processing, Machine Learning</b>
	<b>Shankar Sehgal</b>	<b>Finite Element Model Updating, Microwave Joining, Design and Manufacturing</b>
	<b>Amit Chauhan</b>	<b>Tribology, Journal bearing, Metal Composite and wind energy</b>
<b>Associate Professor</b>	<b>Vishal Gupta</b>	<b>Natural Language Processing, Information Retrieval</b>
	<b>Sarjay Vohra</b>	<b>Mechanics of Materials</b>
	<b>Saurabh Bhatia</b>	<b>Numerical Analysis</b>
	<b>Jaget Singh</b>	<b>Antenna and Microwave Engineering</b>
	<b>Mandeep Kaur</b>	<b>Image Processing, Digital Forensics, Machine Learning</b>
	<b>Amandeep Verma nee Puri</b>	<b>Cloud Computing, IoT, Machine Learning, Deep Learning, Security</b>
	<b>Puneet Jai Kaur</b>	<b>Software Engineering</b>
	<b>Nisha Tayaal</b>	<b>Microcontroller, Embedded Systems and Automation S</b>





**PhD Programs**

SNo	Name of the Department	Seats	Duration	Eligibility/Admission Criteria
1.	Computer Science Engineering	38	3-6 years	See PhD Prospectus 2024
2.	Information Technology	27		
3.	Electrical and Electronics Engineering	37		
4.	Bic-Technology	12		
5.	Mechanical Engineering	60		
6.	Electronics & Communication Engineering	26		
7.	Applied Science Biology Chemistry	5 1		

**SCHEME AND SYLLABE:** Detailed scheme and syllabi of the courses are available on the University official website <https://puhd.ac.in/syllabus.php?cstrfacid=5>

**THRUST AREAS:** Faculty is involved in research in thrust areas like Manufacturing, Traffic Sensing and Information Technologies, Medical Devices and Restorative Technologies, and Management Technologies, Image Processing, Computer Networking, Cloud Computing, Nano Meter

**PLACEMENTS:** The Training and Placement Cell (TPC) facilitates training and placement opportunities for students. Efforts are made by the dedicated members of the team to approach companies and to invite them on campus to recruit students.

**Collaborative Course curriculum development programs, Collaborative FDP/Workshops/Conferences, Purchase of common software as central repository for all projects.**

on a sustainable system. This project is part of the social excellence initiative with Reliance- Ganpa, aiming to provide such facilities in every part of Ayodhya.

## **Dr. S.S. BHATNAGAR UNIVERSITY INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY PANAB UNIVERSITY**

### **ABOUT THE DEPARTMENT**

Dr. SSBhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh (<http://www.uicetpuhd.ac.in>) is a premier Institute in Northern India imparting quality education in Chemical Engineering, Food Technology and allied areas. Institute is currently running the courses in BE (Chemical Engineering), BE (Food Technology), Integrated BE (Chemical Engineering-MBA), ME (Chemical Engineering), MTech (Polymer), ME (Food Technology), MSc (Industrial Chemistry) and ME (Chemical with specialization in Environmental Engineering). The faculty of the institute is involved in guiding students under Faculty of Engineering & Technology to pursue their research leading to award of PhD degree. The Institute was set up in 1978 in collaboration with Illinois Institute of Technology, Chicago, USA and continues to maintain global standards of excellence in education and research. The Institute has attained status of eminence in academia, R&D within India and abroad. Over the years, the Institute has been bestowed with research grants from premier funding agencies like DST, AICTE, UGC, DRDO, MOPI, CSIR, ICAR, TEQIP, etc. The faculty works in collaboration with Industry, Research Organizations etc. contributing extensively towards high quality research.

### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research/Specialization</b>
<b>Professors</b>	Anupama Sharma (Chairperson)	Polymer Science Engineering, Synthesis of Biodegradable Polymers and their Nanocomposites, Nanocellulose Extraction and its Utilization
	Meenakshi Goyal	Chemical Technology (Inorganic & Organic), Science & Technology of Carbon
	Sanchita Chauran	Modeling and Simulation, Environmental Engineering, Chemical Reaction Engineering
	Amit Pal Toor	Mass Transfer and Environment Engineering
	Anupama Thakur	Polymer Science Engineering
	Seena Kapoor	Thermodynamics, Energy Technology, Nano Biomaterials Engineering
	Ritu Gupta	Hydrodynamics, Process Dynamics & Control, Modeling & Simulation
	Urvashi Gupta	Hydrodynamic and Hydromagnetic Stability Problems for Viscoelastic Fluids, Micropolar Fluids and Nanofluids for Thermal Convection / Double Diffusive Convection
	Sushil Kumar Kansal	Mass Transfer, Environmental Engineering, Nano Technology
	Gaurav Verma	Polymers and Material Science, Nano Technology
<b>Associate Professor</b>	Gargi Ghoshal	Fermentation Technology, Cereal Technology
	Anit Sobti	Complex Flow Hydrodynamics
<b>Assistant Professors</b>	Maninder Kaur	Power System, Energy and Environment
	Baljinder Kaur Gill	Chemical Engineering, Thermodynamics
	Gaurav Rattan	Reaction Engineering, Pollution Control
	Suinder Singh Soni	Petroleum Engineering, Separation Technology, Energy & Environment

			<b>equivalent thereto</b>	<b><u>if any</u></b>
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**MTech**

**TITLES OF SYLLABI:** Detailed Syllabi available at <http://puhdacin/syllabus.php>

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<b>Paper 11</b>	<b>Computer lab</b>
<b>Paper 12</b>	



<b>Paper 1</b>	<b>Analytical Techniques</b>		<b>Thesis</b>
<b>Paper 2</b>	<b>Research Methodology</b>		
<b>Paper 3</b>	<b>Preliminary thesis</b>		

**MSc. (Industrial Chemistry)**

**Semester I**



**MTECH(INSTRUMENTATION)**

<b>Semester I</b>		<b>Semester II</b>	
<b>INS6L01</b>	<b>Signal Processing- 1</b>	<b>INS6201</b>	<b>Microprocessors in Instrumentation</b>
<b>INS6L02</b>	<b>Analog &amp; Digital Electronics</b>	<b>INS6202</b>	<b>Automatic Control System</b>
<b>INS6L03</b>	<b>Transducers-1</b>	<b>INS6203</b>	<b>Analytical Instrumentation</b>
<b>INS6L04</b>	<b>*Foundation of Measurement</b>	<b>INS6204</b>	<b>*Robotics</b>
<b>INS6L05</b>	<b>*Photonics</b>	<b>INS6205</b>	<b>*Medical Instruments</b>
<b>INS6L06</b>	<b>*Design of Mechanical Elements</b>		