

## Department of Applied Sciences

University Institute of Engineering and Technology, Panjab University, Chandigarh

**M.Tech. (Material Science & Technology)**

**Session 2024-25**



### **Vision:**

M.Tech. (Material Science and Technology) is an interdisciplinary two year postgraduate course, based on knowledge of physical, chemical and engineering sciences. This course will provide key information about fundamental characteristics of a variety of materials including metals, ceramics, nano materials, polymers, bio-materials, composite materials and hence manipulate their mechanical, electrical, optical and magnetic properties in order to design specialized materials.

### **Thrust areas:**

**M.Tech. (Material Science and Technology) course is running successfully since 2014 in UIET, Panjab University, Chandigarh. The Alumni are placed in various industries and pursuing research in premier institutes like CSIR and DRDO Labs, IITs and reputed Universities abroad.**

### **Facilities:**

- Panjab University has sophisticated advanced instrumentation facilities like HRTEM, FESEM, NMR, UV/Vis and FTIR spectroscopy, XRD.S, Confocal Microscopy, GC-MS, MALDI TOF, Confocal Microscopy, GC-MS, MALDI TOF, Mass, X-Ray, ICP-MS etc. Mass, X-Ray, ICP-MS etc.s.
- UIET-Applied Sciences department offers highly advanced material science lab with dedicated sophisticated instruments

### **Career and Job Prospects**

- Manufacturing and technical support industry
- Academic and research institutes
- Material design specialists in industry and research organizations (Metallurgical, Textile, Food, Health, Security etc.)
- Space and Defence Research Organisations
- Transport Industry (Railways, Automobile, Civil Aviation etc.)

### **Eligibility Conditions:**

Following is the eligibility criterion (any of the following):

B.E./B.Tech. degree in any engineering discipline (Except Computer Science/IT) with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

or

M.Sc. degree in Physics/Chemistry/Applied Physics/Applied Chemistry/Biotechnology/Life Sciences/Material Science/ Nano Science/Nano Technology with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

### **Order of Preference for Admission:**

- First preference will be given to GATE Score.
- Second on the basis of marks in qualifying examination as per eligibility conditions

### **Funding Available :**

**Scholarship available to GATE qualified students.**

### **Research Area :**

- Sensing (Gas sensing, bio-sensing etc.)
- High Energy Physics
- Computational designing
- Drug delivery and theranostics

**APPLY NOW**

**Contact info:**

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