

# Faculty of Applied Sciences

## DEPARTMENT OF APPLIED CHEMICAL SCIENCES AND TECHNOLOGY

### STAFF

#### Professor

Satindar Kaur, Ph.D.  
Kamaljit Singh, Ph.D.

#### Lecturer

Swapna Mishra, M.Tech.  
Varinder Kaur, M. Tech.

#### Reader

Harkamaljit Singh, B.E., ANSI  
Raj Sukhwinder Singh Kaler, Ph.D. (**Head**)

#### STA (TISC)

Sucharita Arora, Ph.D.

### Courses offered / Distribution of seats

Course	Duration (Year)	System	Total Seats	Reserved Categories			
				SC/ST	BC	RA	Others
B. Tech. (Textile Chemistry)	4	Semester	30	7	2	2	4
B.Tech. (Sugar & Alcohol Technology)	4	Semester	30	7	2	2	4
<b>Self-Financing Course</b>							
M.Tech (Textile Chemistry)	2	Semester	10	2	1	1	1

### Eligibility

#### a) B.Tech (Textile Chemistry)

10+2 with 50% marks or its equivalent (Science stream with Physics, Chemistry, Mathematics and English) and appeared in CET (2010).

#### b) B.Tech (Sugar & Alcohol Technology)

10+2 (Non-Medical) from Punjab School Education Board or equivalent from any other recognised board.

#### c) M.Tech (Textile Chemistry)

B.Tech. (Textile Chemistry) or equivalent with at least 60% marks in aggregate.

**Admission b) and c) will be based on merit of the candidate in the qualifying examination.**

### Special Features

**TISC & SISC:** The Department is having Textile Industrial Service Centre (TISC) and Sugar Industrial Service Centre (SISC) which provide testing and consultancy facilities of all sorts for the textile and sugar industry.

**B.Tech (Textile Chemistry)** : The thrust areas of the course are dye chemistry, fibre science, pretreatment, dyeing, printing, finishing & physical/chemical testing of textiles/dyes/chemicals, colour measurement & analysis, yarn and fabric preparation, garment processing.

**B.Tech (Sugar and Alcohol Technology)** : Thrust areas of the course are sugar manufacture, sugar chemistry, alcohol technology (potable and power), confectionary technology and co-generation. The Department is equipped with the state-of-the-art machinery and laboratories.

**M.Tech (Textile Chemistry)** : The thrust areas of the course are : Theory of colouration of textiles, New fibres : chemistry & technology, High tech application of dyes, Non-conventional textile wet processing, Nanotechnology in textiles, Technical textiles, Costing, Project formulation and appraisal, Production and operations management, Design of experiments and analytical tools in Research.

## **Research Opportunities**

It is having research facilities in the fields of organic chemistry, textile chemistry and sugar & alcohol technology.

**Contact Head : 0183-2258802-09, 0183-2450601-14 Extn. 3389, 0183-2258853(O)**