

## Department of Food Engineering

### About the Department

Department of Food Engineering is an industrial research promoting department at IKG-Punjab Technical University. Department is poised to serve the society by going in line with the policy of Government of India in the field of food processing and contributing towards economic development. IKG Punjab Technical University main campus offers a serene yet stimulating environment for students aspiring to do M.Sc. Food Science and Technology. The laboratories of the Department of Food Engineering is well equipped with instruments such as uv-spectrophotometer, rotary evaporator, vacuum oven, muffle furnace etc. for undertaking research projects. The laboratories of the department are being upgraded with instruments like HPLC, GC, Texture Profile Analyser, ELISA Reader and Sonicator etc. Department encourages students to participate in subject conference and other scientific gatherings.

### Courses Offered

S. No.	Courses Offered	Eligibility	Intake
1	M.Sc. Food Science and Technology	Bachelor of Science / Applied Science in any subject, B. Tech. in Food Technology / Biotechnology / Sugar Technology / Sugar and Alcohol Technology / Fermentation Technology / Dairy technology or any other examination recognized equivalent thereto with at least 50% marks in aggregate.	25
2	PhD	As per UGC Norms	

**M.Sc. Food Science and Technology** is an industry and research oriented interdisciplinary program. Department aims at attracting and training students in all aspects of research and development in Food Science and Technology area. The course emphasizes on various aspects of food processing, food preservation, food packaging, food quality and safety, relation between food and health and adding functionally to the food products. Teaching methodology includes Lectures, Tutorials, Journal Clubs, Seminar, Practical laboratory work and much more. Interactive experiential form of teaching is given great importance to enable the students to apply their knowledge learnt in the classroom into their practical life and jobs. Department regularly organizes guest lectures by experts from industry, academic & research institutions like Institute of Himalayan Bioresource Technology, Palampur, National Agro-Food Biotechnology Institute, Mohali (NABI), Sant Longowal Institute of Engineering & Technology, Longowal.

## Faculty Members

S. No.	Name	Designation	Specialization
1	Dr. Rajneesh Kant Sachdev	Associate Professor	Processing and Food Engineering
2	Dr. Shabir Sidhu	Assistant Professor	Functional Foods and Nutraceuticals
3	Er. Barinderjit Singh	Assistant Professor	Food Technology
4	Er. Gazal Sharma	Assistant Professor	Biotechnology

**Dr. Rajneesh Kant Sachdev** is Head, Department of Food Engineering IKGPTU. After completing his B. Tech in Agricultural Engineering, he pursued his Masters in Sugar Engineering from Punjab Agricultural University. His Doctorate is in the field of Processing and Food Engineering from PAU Ludhiana. Besides above, he has also acquired MBA (Finance) from IGNOU, Delhi. He has many publications in national and international journals of repute to his credit. Dr. Sachdev is also serving as Director in IKGPTU. He has 15year Industrial experience and 14 years administration experience along with teaching and research experience.

**Dr. Shabir Sidhu** is an Assistant Professor in the Department of Food Engineering at IKGPTU. She was conferred Doctorate in the year 2010 in the area of Pharmacology from Post Graduate Institute of Medical Education & Research, Chandigarh. Her research work appears in leading National and International SCI journals. She has more than 10 years of research and academic experience. She has guided many PhD and M. Tech. research scholars. She is also serving as a reviewer in various journals of high repute.

**Er. Barinderjit Singh** is an Assistant Professor in the Department of Food Engineering at I. K. Gujral Punjab Technical University. He is a PhD in Food Technology from Guru Nanak Dev University and M. Tech in Food Engineering and Technology from SLIET, Longowal. Apart from this, he also holds to his credit PG Diploma in Dairy Technology, MBA in Operations Management, B. Tech in Food Technology, Diploma in Export Management, and certificate, diploma, Advance Diploma in French. He has more than 11 years of work experience in both academics and industry. His area of interest includes nutraceuticals and functional food. His research work appears in various national and international journals of repute and he has served as a reviewer in many top quality journals. He has delivered many invited speaker talks and has been an active participant in conferences, seminars, FDPs in varied fields. Recently, he has been conferred upon the Best Paper Award for his phenomenal work in ICFOST-XXV organized by AFSTI and GNDU.

**Er. Gazal Sharma** is an Assistant Professor in the Department of Food Engineering at IKGPTU. She is a M. Tech (Biotechnology) from Rajiv Gandhi Technological University. She is pursuing PhD in Biotechnology. She has a work experience of more than 8 years in both industry and academic. Er. Gazal has to her credit; IUCEE-IGIP certified Engineering Educator Program and Microsoft certified Educator Course.

### **Research Areas of the Faculty**

- Extraction of bioactive components.
- Functional food product development.
- Studies of different bioactive components and functional foods using *in vitro* chronic diseases models.
- Shelf-life extension of foods through dehydration techniques.
- Agriculture/food industry waste utilization studies.

## Fee Structure

Sr. No	Head	M. Sc Food Science & Technology (Fees in Rs.)		
		Annual	Odd Semester	Even Semester
1.	Tuition Fee	31,000/-	15,500/-	15,500/-
2.	Development Charges	2,500/-	1,250/-	1,250/-
3.	Securities (Refundable)	5,000/-		
	College Security			
	Library Security			
4.	<b>Other Charges :</b>			
	Admission Fee	500/-	250/-	250/-
	Library Fee	200/-	100/-	100/-
	Computer Development Fund And Internet Services	1,000/-	500/-	500/-
	Sports and Recreation Admission Fee	50/-	25/-	25/-
	Club Admission fee	50/-	25/-	25/-
	Magazines & Library Activities	200/-	100/-	100/-
	Medical & Health Care Fee	100/-	50/-	50/-
	Souvenir Fee	100/-	50/-	50/-
	Student Welfare Fund & Aid Fund	50/-	25/-	25/-
	Periodical Test Fee	200/-	100/-	100/-
	Library Book Replacement Fee	50/-	25/-	25/-
	A V Aids	150/-	75/-	75/-
	Identity Card	50/-	25/-	25/-
	Sports Fee	100/-	50/-	50/-
	Club Fee	100/-	50/-	50/-
	Students Amenities Fee	200/-	100/-	100/-
	Alumni Associations & House Charges	100/-	50/-	50/-
	Placement Charges	500/-	250/-	250/-
Industrial Visits	250/-	125/-	125/-	
Case Study Material	500/-	250/-	250/-	
5.	<b>University Related Fee</b> (To be remitted to the University)	1150/-	575/-	575/-

**NOTE:** Apart from the above mentioned fees there is examination fee of Rs. 700/- per semester.