



**ARIIA 2021**

ATAL RANKING OF INSTITUTIONS  
ON INNOVATION ACHIEVEMENTS

Band - Excellent in the Institute of National  
Importance Category



India Rankings 2022  
Among all engineering colleges in India



# ACADEMIC PROSPECTUS

## 2022-2023

**M.Tech. & Ph.D.**

- ◆ M.Tech. (Food Technology) in Food Process Engineering
- ◆ M.Tech. (Food Technology) in Food Process Technology
- ◆ M.Tech. (Food Technology) in Food Safety & Quality Assurance

- ◆ Ph.D. (Food Technology) in Food Process Engineering
- ◆ Ph.D. (Food Technology) in Food Process Technology

**National Institute of Food Technology,  
Entrepreneurship and Management, Thanjavur (NIFTEM-T)**  
(An Institute of National Importance; Formerly Indian Institute of Food Processing Technology-IIFPT)  
Ministry of Food Processing Industries, Government of India



# Preamble

**Dr. M. Loganathan**  
Director (i/c)



The National Institute of Food Technology, Entrepreneurship and Management - Thanjavur (NIFTEM-T) is an Institute of National Importance functioning under the aegis of the Ministry of Food Processing Industries, Government of India. Over the years, we have expanded our mandates – from an R&D laboratory to finding solutions for post-harvest preservation of paddy located at Thiruvarur - Tamil Nadu in 1967, to Paddy Processing Research Center (PPRC) to Indian Institute of Crop Processing Technology (IICPT) to Indian Institute of Food Processing Technology (IIFPT) to what we are now – NIFTEM-Thanjavur. This journey has witnessed major milestones in research, academic excellence, outreach, and services. Apart from our main campus at Thanjavur, we have our liaison offices at Bathinda, Punjab and Guwahati, Assam primarily focusing on skill development and outreach.

Over a period of 50 years, the institute has evolved in different dimensions like education, research, consultation, skill development, capacity building, business incubation, etc.

NIFTEM-T mainly focus on inclusive and sustainable growth of post-harvest processing and value addition towards accomplishing economic thriving and prosperous food processing sector of the nation. The institute caters the needs of the country by developing skilled/technical manpower for achieving the targets like sustained food security for all, safe food supply at grass root levels, reduced food losses and economic prosperity of country.

Today, the institute is internationally well knowing among the academicians for its high-class education and superior research achievements. NIFTEM-T offers one Under Graduate program, three super specialized Post Graduate program and two doctoral programs. Having more than 5 decades of experience in the field of food processing, the institute delivered more than 600 young professional to the core field and they are proving their phenomenal prudence in food processing domain both in India and abroad.

NIFTEM-T is not mere graduating the students, it creates doyens in food processing.

NIFTEM-T is a road to excellence; board into that for prosperous, promising and peaceful future.



**ranked NIFTEM-T as Band-Excellent**  
**in the Institute of National Importance &**  
**Central Universities/CFTIs (Technical) Category**

# National Institutional Ranking Frame Work-2021

**NIFTEM-T**  
is Ranked



**India Rankings 2022**  
Among all engineering colleges in India

## Our Services

Food Processing Business  
Incubation Centre

Customised Consultancy Services

108 Successful Entrepreneurs

Hi-Tech Food Quality Testing Laboratory



**Testing,  
Incubation and  
Consultancy  
Services**



**Education  
and HRD**

B.Tech., M.Tech. & Ph.D.  
Courses in Food Technology

MoUs with 16 International Universities  
and 82 National Institutions

Student Exchange & Training  
Programmes

Mobile Food Processing Unit

Mobile Food Testing Lab

Short-term & Long-term  
Skill Development Trainings

Incubation/Rental Services

Technology Dissemination



**Skill  
Development  
and Outreach**



**Research  
and  
Development**

Unique Research Areas

Post-Harvest Technologies

Food Process Engineering

Non-Destructive Quality Testing

Non-Thermal Food Processing

Grain Storage Techniques

Biosensors

Nano Foods

Computational Modeling





## Vision

Focus on inclusive growth by accomplishing overall sustainability, safety and economic prosperity in the food sector

## Mission

- ♦ Undertaking demand driven research; cater to the needs of the stakeholders in food sector
- ♦ Creating industry-academic interface for problem solving and ad-hoc researches
- ♦ Creating skilled human resources through value based education and training
- ♦ Enabling institutional collaborations for exchange of knowledge and human resources
- ♦ Serving the food sector stakeholders by providing analytical and consultancy services



# Significance of Human Resource Management in Food Processing Sector

India is the third largest producer of foods in the world and is behind only to China and USA. We produce more than 600 million tons of foods annually. We are the largest producers of pulses, milk, tea, all spices, fruits and vegetables, third largest in grains and oilseeds, fifth largest in poultry and seventh largest in fish production.

In spite of these superlative facts, the domestic food supply is inadequate at the receiving end and our export share in international markets is much less than 2%. The main reasons are due to lack of technical work force in food processing sector, fewer ventures in food processing businesses, huge post-harvest losses and lack of technical knowhow. The food processing sector has greater scope globally. Skilled professionals are in great need, starting from food collection, transit, supply chain management, processing, value addition, cold chain management and up to consumer end. The total value of food trade in the country is Rs.9,00,000 crores. Government of India has a target of achieving 3% of international food trade from current levels of 1.5% in the coming years. A meagre 1% growth rate in food processing industries will lead to 5 lakhs direct and 15 lakhs indirect employments. Considering the importance of this vital sector, NIFTEM-T offers the following academic programme.





## Academic Programmes

### Under Graduate Programme

B.Tech. (Food Technology) – 4 years (8 semesters)

### Post Graduate Programmes

M.Tech. (Food Technology) in Food Process Engineering – 2 years (4 semesters)

M.Tech. (Food Technology) in Food Process Technology – 2 years (4 semesters)

M.Tech. (Food Technology) in Food Safety & Quality Assurance – 2 years (4 semesters)

### Doctoral Programmes

Ph.D. (Food Technology) in Food Process Engineering – 3 years (6 semesters)

Ph.D. (Food Technology) in Food Process Technology – 3 years (6 semesters)

## Centre of Excellences

- ◆ Centre for Excellence in Grain Science
- ◆ Centre of Excellence in Non-Thermal Processing

## Academic Departments

- |  |  |
|--|--|
| ◆ Academics & Human Resource Development     | ◆ Primary Processing, Storage & Handling             |
| ◆ Food Engineering                           | ◆ Computational Modeling & Nanoscale Processing Unit |
| ◆ Food Packaging & System Development        | ◆ Technology Dissemination                           |
| ◆ Food Product Development                   | ◆ Workshop & Fabrication Unit                        |
| ◆ Food Safety & Quality Testing              | ◆ Industry Academia Cell                             |
| ◆ Food Biotechnology                         | ◆ Public Relations Office                            |
| ◆ Food Processing Business Incubation Centre |  |





# Laboratories & Infrastructure Facilities

The NIFTEM-T is located at a distance of 2 km from the Thanjavur new bus terminus, 8 km from Thanjavur Railway Station and 50 km from Trichirappalli Airport and 300 km from Chennai. NIFTEM-T has created world class research laboratories in its main campus at Thanjavur for conducting research in different areas of food processing technologies. NIFTEM-T and its scientists are experts in different field of food processing. The current facilities in the institute include the following:

## Teaching Laboratories

- ◆ Food Microbiology
- ◆ Food Biochemistry
- ◆ Food Engineering
- ◆ Food Biotechnology
- ◆ Food Quality Testing
- ◆ Food Packaging
- ◆ Non-Thermal Processing
- ◆ Sensory Analysis
- ◆ Computation Modeling & Nanoscale Processing
- ◆ Non Destructive Quality Measurement
- ◆ Manufacturing Practices
- ◆ Grains Processing
- ◆ Spices Processing
- ◆ Unit Operations
- ◆ Heat Transfer
- ◆ Refrigeration and Air-Conditioning
- ◆ Fluid Mechanics and Hydraulics
- ◆ Instrumentation and Process Control
- ◆ Common Analytical Instrumentation
- ◆ Primary Processing & Storage
- ◆ Electrical Engineering
- ◆ Basic Electronics
- ◆ Computer Centre







**Ice cream processing pilot plant**



**Bakery unit**

## State of the Art R&D Facilities

- ◆ Food Product Development Lab
- ◆ NABL Food Quality Analysis Lab
- ◆ Soft X-ray Lab
- ◆ Food Packaging Systems
- ◆ Sonication Systems
- ◆ Sensory Evaluation Systems
- ◆ Biosensor Systems
- ◆ Pulsed Electric Field System
- ◆ Pilot Scale Bakery Unit
- ◆ Pilot Scale Confectionary Unit
- ◆ Pilot Scale Ice cream Unit
- ◆ Pilot Scale Fruit Beverages Unit
- ◆ Cryogenic Processing Unit
- ◆ Advanced Drying Units
- ◆ Nanoscale Processing
- ◆ High Pressure Processing
- ◆ Bulk Storage Facilities
- ◆ Common Instrumentation Facility
- ◆ Food Engineering
- ◆ Computational Modeling
- ◆ Super Critical Fluid Extraction
- ◆ Scanning Electron Microscope



**Food microbiology lab**



**Fruit beverage pilot processing plant**



## Centre of Excellence in Grain Sciences

The centre is also involved in developing the protocols for standardizing different testing quality parameters in nutrients analysis and quality assessment of pre-release varieties. Facility for quality evaluation and milling of millets and pulses, processing of oilseeds also included. Centre of excellence for grain sciences in association with leading industry aims to train students and professionals involved in grain milling, conduct innovative research, and provide solutions to issues faced by the milling industry. This centre also seeks to provide human resources, skill development and a continuous knowledge platform for Government procurement and public distribution authorities to process paddy, millets, pulses and oilseeds. Machinery available for processing half a tonne capacity “state of art rice parboiling and milling unit” integrated with solar drying system, millet processing unit and dhal milling unit. This department also has extrusion cooking unit.



## Centre of Excellence in Non-Thermal Processing

Processing of foods without the application of heat is termed as the non-thermal processing. The most widely used non-thermal processing techniques are high pressure processing, pulsed electric field, ultrasound, pulsed light, ultra violet light, irradiation, oscillating magnetic field etc. As the foods are treated without heat, the foremost importance of the non-thermal processing is the maximum retention of colour, taste, appearance and nutrition content in food. The major facility in the centre is the unique equipment available for different non-thermal processing methods. The equipments and technologies available at CENTP are Cold plasma processing, ultrasound, ultraviolet and osmotic dehydration. These equipments are used by the scholars and doctoral students on various approaches to solve technical problems and challenges in food industries. Equipments on High pressure processing, pulsed electric field, pulsed light, irradiation, oscillating magnetic field are in the pipeline and will be added to this centre. The objective of this centre is to conduct research on non-thermal food processing methods to produce fresh like products with increased shelf life.





## Food Microbiology Laboratory

Microbes play major roles in our foods, some play a good role and some a bad role. Bad microbes must be controlled to save the food from spoilage and good microbes must be provided with conducting growing conditions. Current Research Focuses include production of pigments from microbial origin, preparation and preservation of millet based Porridges for longer shelf life, beverage preservation, utilization of tapioca effluent for spirulina production, standardization of ethnic fermented food and beverages by rationalization of indigenous knowledge, probiotic food formulation using non dairy substrates and tannase enzyme production from agro wastes.



## Food Engineering Laboratory

The ideas generated by other departments are given a shape in the food engineering laboratory. This laboratory consists of modern fabrication facilities with all manufacturing machines and tools. The food engineering division work, either independently or jointly with other divisions, help in creating new machines and processes for food processing industries. This laboratory provides direct linkage with the farm produce and the postharvest activities. Some of the gadgets, technologies or accessories developed includes fruit and vegetable washer, grader, destoner, mobile processing unit, multi purpose yard drying equipment, continuous rice puffing unit, thermal dis-infestation of paddy, low friction huller, improved parboiling unit, rice degermer, husk fired stove, small scale pulse de-husker, improved parboiling unit and pedal operated winnower. These technologies are popular among the farmers and entrepreneurs.





## Computational Modeling and Nanoscale Processing Unit

Modeling is a powerful tool for optimizing and improving process control over various unit operations by acquiring an in-depth understanding of the intricate transport phenomena in food systems. The unit uses advanced computing methods and undertakes industry and other external funded research projects in this field. Further, considering the potential of nanotechnology, the unit also conducts studies on nano-level food processing. This includes strategies for nanoencapsulation, nanoemulsions, nano delivery systems, nanopackaging and other advanced applications. Research and development on various aspects of nanostructured foods, nanocarrier systems, nano food additives, nanocoatings, and development of nanosensors are under progress.



## Food Product Development Laboratory

This laboratory focuses on the development of novel and functional foods from specific food grains, pulses, oilseeds, and fruits and vegetables. Modern equipments including different types of extruders, texture analyzers, phase transition analyzer, rapid visco analyzer, milling machines and all accessories necessary for food product development are parts of this facility. Sensory lab is a unique lab to test the sensory characteristics of food and authenticate origin of food and chemical characters available in food.



## Food Quality Testing Laboratory

Our FSSAI Referral & NABL accredited ISO/IEC 17025:2017 Food Analysis Laboratory is equipped with modern equipments to carryout physico-chemical analysis of food, water and any organic samples. This laboratory has hi-tech analytical instruments like GCMS, ICPMS, LCMS, NMR, HPLC, HPTLC Amino acid analyzer, Iron chromatography for analyzing biochemical parameters, pesticides residual and nutrition etc. in samples related to food products. Ready reference books such as BIS, CODEX, PFA, AOAC and AACC for food analysis are available. The laboratory is constantly upgraded to meet international standards.







# Food Processing Business Incubation Centre

The hi-tech and cottage level food processing incubation cum training centre at NIFTEM-T has the following product lines:

- ◆ Canning fruits and vegetables or meat and meat products
- ◆ Ready to serve (RTS) or Ready to drink (RTD) fruit based beverages and jams and jelly manufacturing with bottling facility
- ◆ Ready to Cook (RTC) foods and Ready to eat (RTE) extruded food products making
- ◆ Instant mixes, masala and chutney powders production and sachet packaging
- ◆ Specialized packaging section with facilities for ordinary packaging and modified atmosphere

packaging (MAP)

- ◆ Hands-on-training on different food processing technologies, renting facilities and other supports are offered all through the year to help the entrepreneurs to put in their innovative ideas for the development of new products
- ◆ Pilot scale fruit beverage processing plant
- ◆ Pilot scale ice cream processing plant
- ◆ Pilot scale virgin coconut oil processing plant
- ◆ Pilot scale spray dryer
- ◆ Pilot scale fluidized bed dryer
- ◆ Pilot scale freeze dryer

## Knowledge Centre



The knowledge centre has exclusive collection of books and journals on food processing related areas. The knowledge centre having more than 45,000 books and regularly subscribe for more than 50 Indian and 15 International journals in food processing. We keep adding to our wealth of books and journals resources every year and soon expect the library to become reference point of national importance for food processing, preservation and value addition related subjects.





# Industrial collaboration for R&D



## Exposure to Industry

NIFTEM-T students are sent to industries for hands-on experience on the functions of an industry. This prepares them to be industry ready upon their graduation. Following are some industries in which our current graduating students have taken up such industrial internship trainings.

- ♦ Mondelez International
- ♦ Nestlé India Ltd
- ♦ ITC Foods, Bangalore
- ♦ Aachi, Chennai
- ♦ Eastern Pvt. Ltd., Kerala
- ♦ Hatsun Agro Product Ltd., Kanchipuram
- ♦ Hindustan Unilever Limited, Chennai
- ♦ Nilgiris Pvt Ltd., Bangalore
- ♦ Savorit Limited, Dindigul
- ♦ Moksha Foods Condiments & Beverages, Coimbatore
- ♦ MTR Foods Pvt. Ltd., Bangalore
- ♦ Paramount Nutrition India, Karnataka
- ♦ Rohini Foods, Chennai
- ♦ Ruchi Soya, Chennai
- ♦ Mother Dairy, Fruit & Vegetables Pvt Ltd, Bangalore & New Delhi
- ♦ Britannia Industries Ltd., Rudrapur, Chennai & Bangalore
- ♦ Oceanic Tropical Fruits Pvt.Ltd., Villupuram
- ♦ Sri Anna Poorna Foods, Coimbatore
- ♦ Ninja Cart, Bangalore
- ♦ Perfetti Van Melle India Pvt Ltd., Chennai
- ♦ Parle Ltd., Nasik
- ♦ Vista Tools Pvt.Ltd.,Mumbai.
- ♦ Tata Smart Foods Pvt. Ltd., Sricity, Andhra Pradesh
- ♦ Aavin, Madurai
- ♦ Yellows and Greens, Hydrebad.
- ♦ India Food Park, Tumkur
- ♦ Pepsico, Bangalore
- ♦ GRB Dairy foods pvt ltd
- ♦ Milky Mist Dairy Food Private Limited
- ♦ NutriPlanet Foods Private Limited
- ♦ Swastiks Masalas, Pickles and Food Products pvt ltd



# Food Safety and Quality Testing Facility

- ◆ Inductively coupled plasma-optical emission spectrophotometer (ICP-OES)
- ◆ Gas chromatography-mass spectrometer (GC-MS/MS)
- ◆ Texture analyzer
- ◆ High performance thin layer chromatography (HPTLC)
- ◆ Rapid visco analyser
- ◆ Fermentor/Bioreactor
- ◆ Inductively coupled plasma-mass spectrometry (ICP-MS)
- ◆ Liquid chromatography mass spectrometry (LC-MS/MS)
- ◆ Nuclear magnetic resonance (NMR)
- ◆ Microbial identification system
- ◆ Reverse transcription polymerase chain reaction (RT-PCR)
- ◆ DNA sequencer
- ◆ Fourier transform infrared spectroscopy (FTIR)
- ◆ Powder X-ray diffraction
- ◆ Scanning electron microscope
- ◆ 3D Food printer
- ◆ Differential scanning calorimeter
- ◆ High performance liquid chromatography
- ◆ Particle size analyzer
- ◆ Freeze dryer unit
- ◆ Electrospinning unit with dual pump

## International / National Collaborations

In the changing socio-economic, academic and research scenarios, no institution can stand alone and deliver effectively. NIFTEM-T clearly understands this and knows the beneficial effects of collaborations with International and National Institutes.

### MoUs Signed with the following institutions

#### International

- ◆ University of Manitoba
- ◆ University of Nebraska-Lincoln
- ◆ University of Saskatchewan
- ◆ McGill University
- ◆ Colorado State University
- ◆ Illinois Institute of Technology
- ◆ Saskatoon Pulse Growers
- ◆ Kuraray-EVAL - Japan
- ◆ Oklahoma State University
- ◆ Kansas State University
- ◆ Auburn University
- ◆ Wageningen University
- ◆ Asian Institute of Technology
- ◆ Ambo University
- ◆ ONIRIS
- ◆ NRI, Greenwich

#### National

- ◆ Gandhigram Rural Institute, Dindigul
- ◆ Tamil nadu Dr. Jayalalithaa Fisheries University (TNJFU)
- ◆ Central University of Tamil Nadu, (CUTN)
- ◆ ICAR-National Research centre for Banana (NRCB), Trichy
- ◆ Punjab Agricultural University, Ludhiana
- ◆ National Dairy Research Institute, Karnal
- ◆ Central Institute of Post-Harvest Engg. & Technology, Ludhiana
- ◆ Indian Institute of Wheat & Barley Research, Karnal, Haryana
- ◆ Saint Longowal Institute of Engg. & Tech., Sangrur
- ◆ National Agri-Food Biotechnology Institute, Mohali
- ◆ Mizoram University, Aizawl, Mizoram
- ◆ University of Science & Technology, Meghalaya (USTM)





## Hostels

NIFTEM-T has separate hostels for boys and girls with well furnished rooms and equipped with state-of-the-art facilities, reading rooms, television, gym and music rooms. The hostel messes provide nutritionally balanced, wholesome and tasty food and the dining charges are based on a dividing system. The hostel is run by the students under the supervision of Wardens and Deputy Wardens for both boys and girls hostels. Hostel life at NIFTEM-T is a mixture of fun and learning with Indoor and outdoor games facilities. New hostel facilities are being built-up to accommodate more students.



**Kaveri Girls Hostel**



# Placements

Every year, NIFTEM-T conduct On-campus interviews for the placements of final year students. Food processing firms/industries come to recruit the young professionals for their needs. Apart from the regular placements, the institute assists the students to get higher education opportunities in premier institutes of India and across the world. Periodically, institute organize special guest lectures of various experts from industries, academics and personality management to build up the students' ability and self-confidence to face their future confidently.

## Major Recruiters





# Scholarships and Research Assistantships

Merit scholarships are offered for the students to

- ◆ Attract meritorious students to NIFTEM-T
- ◆ Encourage top ranking students for pursuing excel
- ◆ Boost the talents and knowledge of the students

## Scholarships Offered\*

Scholarships	Details
<b>M.Tech. Programmes</b>	
Institute Merit Scholarship	Available for 2 eligible students from each programme for the Institute Merit Scholarship during the first year of programme @ Rs.5000/- per month subject to a minimum OGPA of 8.0.
MoFPI Scholarship	Available for top 5 eligible students from each programme for outstanding performance in the first year @ Rs.10,000/- per month subject to a minimum OGPA of 8.0.
Scholarship for GATE Qualified Students	Available for top 3 GATE qualified students for each M.Tech programme during the regular study period @ Rs.10,000/- per month.
<b>Ph.D. Programmes</b>	
Institute Free Studentship	Available for 2 eligible students for each programme for the Institute Free Scholarship during the first year of programme @ Rs.5000/- per month subject to a minimum OGPA of 8.0.
MoFPI Scholarship	Available for top 5 eligible students from each programme for outstanding performance in first year @ Rs.15,000/- per month subject to a minimum OGPA of 8.0.

\* The Scholarships will be provided as per the institute norms





# M.Tech. (Food Technology) in Food Process Engineering (Full Time)



Food processing sector has huge potential in terms of production of processed foods, value addition and technology development. It is one of the major sources for employment and entrepreneurship. Food Process Engineering deals with the analysis of processes, plant design, operation technologies, products development and life cycle of process plants. In this programme, students learn advanced courses on food process engineering through elaborate class discussions, hands on laboratory sessions / Projects and industry internships to expand their knowledge and upgrade their skills. It is designed for students who wish to broaden their job prospects through cross training, re-training or specialization.

## **Duration: Minimum**

Two years / 4 semesters

## **Number of Seats:**

12 (all India level)

## **Eligibility:**

- ◆ Candidate should have passed a 4 years Bachelor's degree in any of the following discipline like Food Technology / Food Process Engineering / Agricultural Engineering / Agricultural and Food Engineering / Food Technology and Management / Food Processing and Preservation Technology / Dairy Technology / Food Science and Technology / Food Process Technology / Post Harvest Technology / Fish Process Engineering.
- ◆ A candidate who has undergone course credit system with a minimum OGPA of 3.00 out of 4.00 or 7.00 out of 10 or 70% aggregate alone is eligible to apply. However, for SC/ST candidates, a pass in the qualifying degree is sufficient.

## **Selection Criteria:**

- ◆ Selection is purely based on merit basis only.
- ◆ Ranking will be done based on Under-Graduate Marks, academic credentials and NIFTEM-T Entrance Examination-2022.
- ◆ NIFTEM-T Entrance Examination-2022 will be conducted at NIFTEM-Thanjavur main campus.
- ◆ Reservation policy based on GoI norms.



# M.Tech. (Food Technology) in Food Process Technology (Full Time)



Food Process Technology (FPT) is a multidisciplinary subject that covers Food Science, Food Technology, Food Chemistry, Food Engineering, Nutrition, Microbiology and Biochemistry to study the nature of foods, causes of their deterioration and the principles underlying food processing, preservation and packaging. In this programme, Students learn advanced courses on FPT through intensive classroom sessions, laboratory practice, projects based on new product development and industry internships to gain invaluable transferable skills for enhancing employability.

**Duration: Minimum**

Two years / 4 semesters

**Number of Seats:**

12 (all India level)

**Eligibility:**

- ◆ Candidate should have passed a 4 years Bachelor's degree in any of the following discipline like Food Technology / Food Process Engineering / Agricultural Engineering / Agricultural and Food Engineering / Food Technology and Management / Food Processing and Preservation Technology / Dairy Technology / Food Science and Technology / Food Process Technology / Post Harvest Technology / Home Science / Food Science and Nutrition / Food Science and Quality Control / Fish Process Engineering.
- ◆ A candidate who has undergone course credit system with a minimum OGPA of 3.00 out of 4.00 or 7.00 out of 10 or 70% aggregate alone is eligible to apply. However, for SC/ST candidates, a pass in the qualifying degree is sufficient.

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- ◆ NIFTEM-T Entrance Examination-2022 will be conducted at NIFTEM-Thanjavur main campus.
- ◆ Reservation policy based on Gol norms.



## M.Tech. (Food Technology) in Food Safety and Quality Assurance (Full Time)



Food safety and quality assurance is the priority of any food processing industries nowadays. All food industries assure government regulators and customers worldwide that the organization is processing safe and high-quality products. Quality assurance and quality control is an important section in food industry which strictly focuses on testing and control systems to produce safe foods. To cater the human resources requirements to serve as quality executive, quality manager, Food safety officer, production executive, food safety standards consultants, etc., NIFTEM-T commences this master's programme. In this, students learn advanced courses on food safety and quality assurance through interactive classroom and laboratory session along with real time projects and internships at industries.

### **Duration: Minimum**

Two years / 4 semesters

### **Number of Seats:**

12 (all India level)

### **Eligibility:**

- ◆ Candidate should have passed a 4 years Bachelor's degree in any of the following discipline like Food Technology / Food Process Technology / Home Science / Food Science and Nutrition / Food Science and Quality Control / Food Process Engineering / Food Science and Technology / Food Processing and Preservation Technology / Post Harvest Technology / Industrial & Applied Microbiology.
- ◆ A candidate who has undergone course credit system with a minimum OGPA of 3.00 out of 4.00 or 7.00 out of 10 or 70% aggregate alone is eligible to apply. However, for SC/ST candidates, a pass in the qualifying degree is sufficient.

### **Selection Criteria:**

- ◆ Selection is purely based on merit basis only.
- ◆ Ranking will be done based on Under-Graduate Marks, academic credentials and NIFTEM-T Entrance Examination-2022.
- ◆ NIFTEM-T Entrance Examination-2022 will be conducted at NIFTEM-Thanjavur main campus.
- ◆ Reservation policy based on Gol norms.



# Ph.D (Food Technology) in Food Process Engineering (Full Time)



## **Duration: Minimum**

Three years / 6 semesters

## **Number of Seats:**

8 (all India level)

## **Eligibility:**

- ◆ Candidate Should have passed a 4 years Bachelor's degree and 2 years M.E. / M.Tech degree in any of the following discipline like Food Technology / Food Process Engineering / Agricultural and Food Engineering / Food Technology and Management / Food Processing and Preservation Technology / Food Science and Technology / Food Process Technology / Post Harvest Technology / Agricultural Process Engineering / Agricultural Engineering / Food Safety and Quality Assurance / Processing and Food Engineering / Dairy Engineering / Dairy Technology / Fish Process Engineering.
- ◆ A candidate who has undergone course credit system with a minimum OGPA of 3.00 out of 4.00 or 7.00 out of 10 or 70% aggregate alone is eligible to apply. However, for SC/ST candidates, a pass in the qualifying degree is sufficient.

## **Selection Criteria:**

- ◆ Selection is purely based on merit basis only.
- ◆ Ranking will be done based on Under-Graduate & Post-Graduate Marks, academic credentials and NIFTEM-T Entrance Examination-2022 followed by personal interview.
- ◆ NIFTEM-T Entrance Examination-2022 and personal interview will be conducted at NIFTEM-Thanjavur main campus.
- ◆ Reservation policy based on Gol norms.



# Ph.D (Food Technology) in Food Process Technology (Full Time)



## Duration: Minimum

Three years / 6 semesters

## Number of Seats:

8 (all India level)

## Eligibility:

- ◆ Candidate Should have passed a 4 years bachelors degree and 2 years Masters degree in any of the following discipline like Food Technology / Food Science and Technology / Food Safety and Quality Assurance / Food Science and Nutrition / Food Science and Quality Control / Food Process Engineering / Food Process Technology / Process and Food Engineering / Agricultural Engineering / Food Technology and Management / Dairy Engineering / Dairy Technology / Fish Process Engineering.
- ◆ A candidate who has undergone course credit system with a minimum OGPA of 3.00 out of 4.00 or 7.00 out of 10 or 70% aggregate alone is eligible to apply. However for, SC/ST candidates, a pass in the qualifying degree is sufficient.

## Selection Criteria:

- ◆ Selection is purely based on merit basis only.
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- ◆ NIFTEM-T Entrance Examination-2022 and personal interview will be conducted at NIFTEM-Thanjavur main campus.
- ◆ Reservation policy based on GoI norms.



# Extra Curricular Activities

- ◆ MoE's Institute Innovation Council
- ◆ Sports Club
- ◆ Literary Club
- ◆ Science Club
- ◆ Alumni Association
- ◆ National Service Scheme
- ◆ Cultural Club





## Fees structure M.Tech. & Ph.D.

### 2022-23 – Academic Fees

S. No.	Details	Fees, Rs.	
		M.Tech	Ph.D
<b>A.</b>	<b>One Time Fees</b>		
1	Admission Fee	12600	12600
2	ID Card Fee	400	400
3	Seminar/Thesis Fee	3000	13000
4	Qualifying Exam Fee	1200	2800
5	Anti Plagiarism Fee	3000	3000
6	Caution Deposit (Refundable)	4350	4350
7	Library Deposit Fee (Refundable)	650	650
<b>Total (A)</b>		<b>25200</b>	<b>36800</b>
<b>B.</b>	<b>Semester Fees</b>		
1	Tuition Fee*	31500	31500
2	Lab Support Fee	6300	6300
3	Library Fee	3975	1650
4	Examination Fee	6620	7730
5	Student Activities	4800	2250
6	IT Support	4500	1500
7	Medical and Insurance Fee <sup>§</sup>	600	600
<b>Total (B)</b>		<b>58295</b>	<b>51530</b>
<b>Total (A+B)</b>		<b>83495</b>	<b>88330</b>

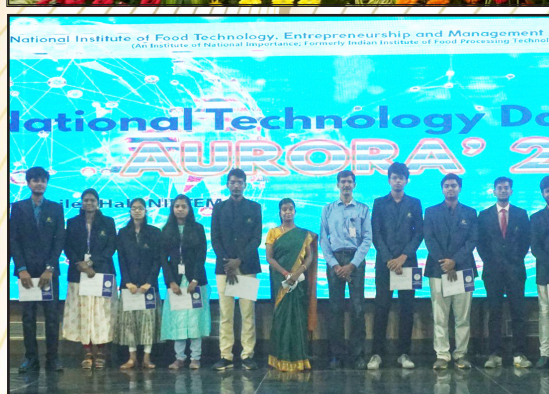
**Note:** \*Tuition fee waiver scheme is applicable for eligible students as per the norms.

<sup>§</sup>Subject to revision as per the actual premium cost.

### Hostel Fees & Mess Charges

S. No.	Details	M.Tech	Ph.D
<b>C.</b>	<b>One Time Fees</b>		
1	Hostel Admission Fee	1100	1100
2	Hostel Deposit (Refundable)	3500	3500
<b>Total (C)</b>		<b>4600</b>	<b>4600</b>
<b>D.</b>	<b>Semester Fees</b>		
1	Establishment charges, (Hostel room rent, Electricity & Water charges)	10050	10050
2	Mess advance (dining charges on sharing basis)	20000	20000
<b>Total (D)</b>		<b>30050</b>	<b>30050</b>
<b>Total (C+D)</b>		<b>34650</b>	<b>34650</b>





**For further information, contact:**

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