

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

ACADEMIC PROSPECTUS 2023-2024 M.Tech. & Ph.D.



in
Agriculture and Allied Sector Category
& among 101-150
in Engineering Colleges category
by the NIRF Ranking
of Ministry of Education





Preamble

Dr. M. Loganathan

Director (i/c)

National Institute of Food Technology, Entrepreneurship and Management, Thanjavur (NIFTEM-T) is one of the Institutes 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 Thiruvavur - TN 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 and Guwahati, 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

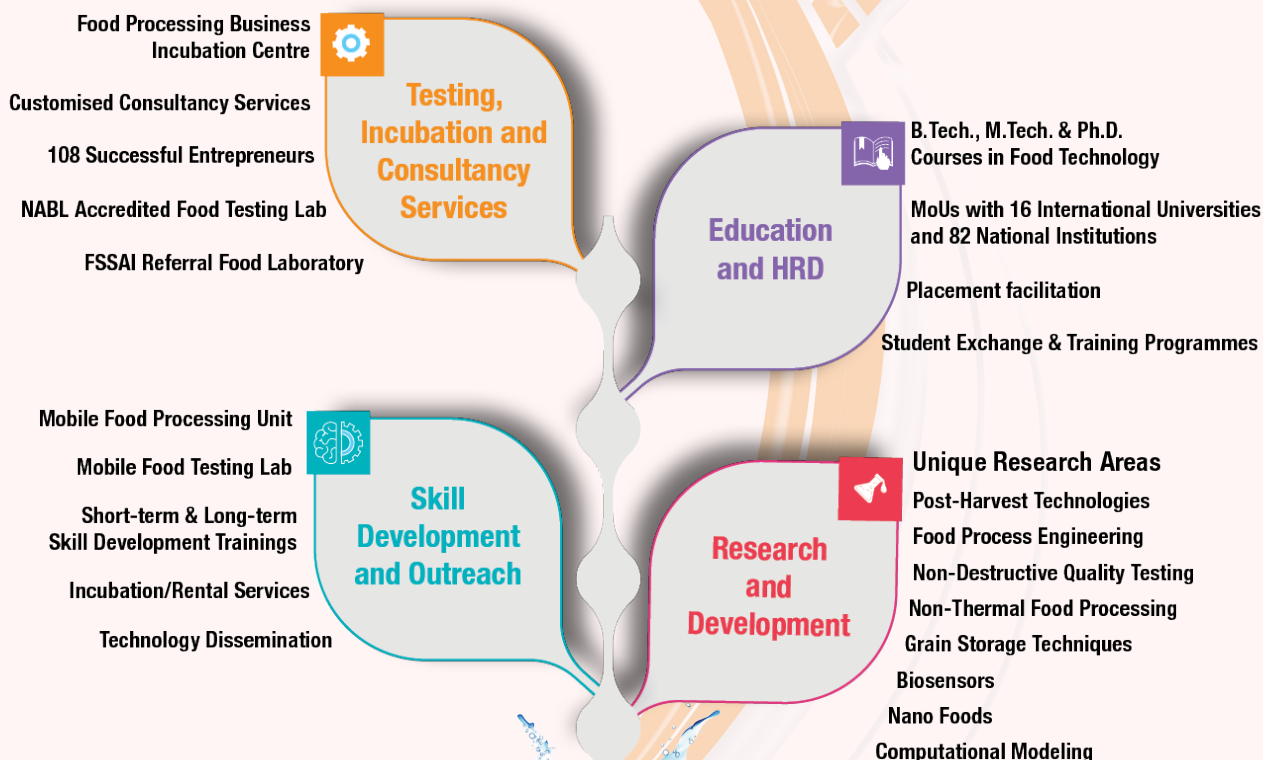
National Institutional Ranking Framework-2023

NIFTEM-T
has been ranked



in
Agriculture and Allied Sector Category
&
**among 101-150 in Engineering Colleges category by
the NIRF Ranking of Ministry of Education**

Our Services





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, NIFTM-T offers the following academic programmes.



Academic Programmes

Undergraduate Programme

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

Postgraduate 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)

Ph.D. (Food Technology) in Food Safety & Quality Assurance - 3 years (6 semesters)

Centre of Excellences

- ▶ Centre of Excellence for Grain Science
- ▶ Centre of Excellence in Nonthermal Processing

Departments

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



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 institute has world class teaching and research facilities. The current facilities in the institute include the following:

Teaching Laboratories

- ▶ Food Microbiology
- ▶ Food Biochemistry
- ▶ Food Engineering
- ▶ Food Biotechnology
- ▶ Food Quality Testing
- ▶ Food Packaging
- ▶ Nonthermal 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
- ▶ Central Instrumentation
- ▶ Common Analytical Instrumentation
- ▶ Primary Processing & Storage
- ▶ Electrical Engineering
- ▶ Basic Electronics
- ▶ Computer Centre





Ice cream processing pilot plant



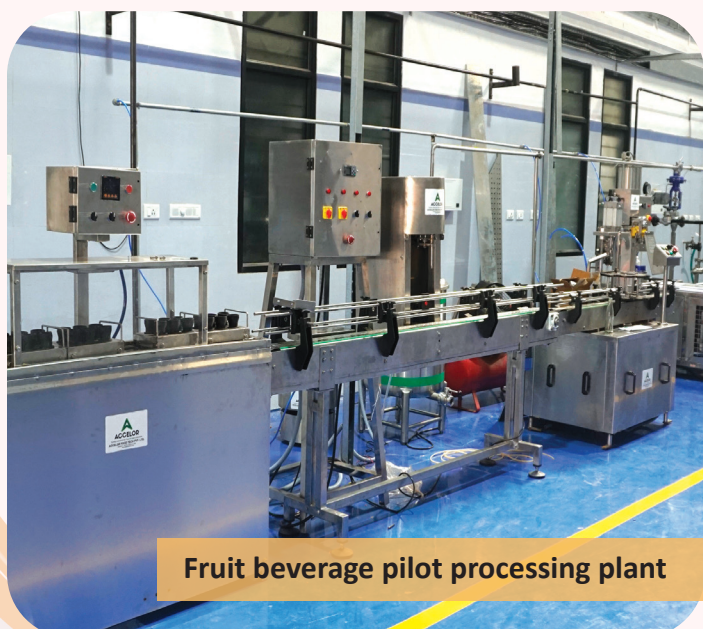
Bakery unit

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 for 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 Nonthermal Processing

Processing of foods without the application of heat is termed as the Nonthermal processing. The most widely used Nonthermal 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 Nonthermal 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.



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.

School of Sensory Science

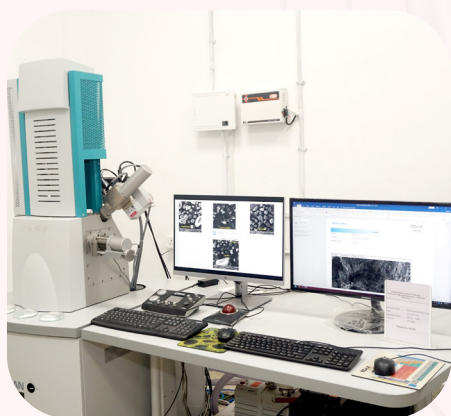
The consumer behaviour towards the food product taste and aroma provides essential information for a successful product development. In order to develop food product that meets customer expectations, the sensory quality of the product is constantly evaluated through objective and subjective methods. The Subject method is done using Sensory lab specifically development with International standards using trained and Untrained Panel Judges and assessing the acceptability of food product. The object methods using instruments method for different characteristic of food like texture and color. Sensor technique used to assess the flavor using ENose and eTongue for assessing the acceptable food ingredients and additives that can be used in food product development. The department is established with full-fledged Sensory lab with climate control and facial deduction software to predict and assess the consumer acceptance and remote operating software system using Fizzy logic technique.

Food Product Development

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.

Food Quality Testing Laboratory

Our FSSAI Referral & NABL accredited ISO/IEC 17025 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 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

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.



Food Biotechnology Laboratory

The Department of Food Biotechnology houses state-of-the-art facilities that support a wide range of research areas. The department has worked extensively in the field of food microbiology, beneficial microbes, probiotics, molecular microbiology, and food safety and quality assurance. Current research includes the production of pigments and natural colorants, identification and studies on natural preservatives, phytochemical screening for antimicrobial application, method development for screening genetically modified organisms (GMOs) using PCR and FTIR, food authentication method for vegan food compliance, genomic approaches for identifying food pathogens and biomarkers, preparation and preservation technology of millet-based products, probiotic food formulation, recent application of indigenous knowledge and exploration of ethnic fermented food.



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

Food Processing Business Incubation Centre

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

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. & Tech., Ludhiana
- ▶ TANUVAS, Chennai
- ▶ Indian Institute of Packaging, Mumbai
- ▶ 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

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
M.Tech. Programmes	
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.
Ph.D. Programmes	
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



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



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:

17 (all India level)

Eligibility:

- ▶ Candidate should possess a Bachelor's degree in any of the following disciplines: 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. 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-2023.
- ▶ NIFTEM-T Entrance Examination-2023 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:

17 (all India level)

Eligibility:

- ▶ Candidate should possess a 4 years Bachelor's degree in any of the following disciplines: 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. 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-2023.
- ▶ NIFTEM-T Entrance Examination-2023 will be conducted at NIFTEM-Thanjavur main campus.
- ▶ Reservation policy based on GoI 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.

Duration: Minimum

Two years / 4 semesters

Number of Seats:

17 (all India level)

Eligibility:

- ▶ Candidate should possess a 4 years Bachelor's degree in any of the following disciplines: Food Technology / Food Process Technology / Food Science and Technology / Home Science / Food Science and Nutrition / Food Science and Quality Control / Food Safety and Quality Assurance / Food Process Engineering / Food Processing and Preservation Technology / Post Harvest Technology / Industrial & Applied Microbiology / 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. 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-2023.
- ▶ NIFTEM-T Entrance Examination-2023 will be conducted at NIFTEM-Thanjavur main campus.
- ▶ Reservation policy based on GoI norms.

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



Duration: Minimum

Three years / 6 semesters

Number of Seats:

17* (all India level)

Eligibility:

- ▶ Candidate should possess a 4 years Bachelor's degree and 2 years Master's degree in any of the following disciplines: 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 / 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. 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-2023 followed by personal interview.
- ▶ NIFTEM-T Entrance Examination-2023 and personal interview will be conducted at NIFTEM-Thanjavur main campus.
- ▶ Reservation policy based on GoI norms.

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



Duration: Minimum

Three years / 6 semesters

Number of Seats:

17* (all India level)

Eligibility:

- ▶ Candidate should possess a 4 years Bachelor's degree and 2 years Master's degree in any of the following disciplines: 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 / Processing and Food Engineering / Agricultural Process 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. 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-2023 followed by personal interview.
- ▶ NIFTEM-T Entrance Examination-2023 and personal interview will be conducted at NIFTEM-Thanjavur main campus.
- ▶ Reservation policy based on GoI norms.

Ph.D. (Food Technology) in Food Safety and Quality Assurance (Full Time)



Duration: Minimum

Three years / 6 semesters

Number of Seats:

17* (all India level)

Eligibility:

- ▶ Candidate should possess a 4 years Bachelor's degree and 2 years Master's degree in any of the following disciplines: Food Technology / Food Process Technology / Food Science and Technology / Home Science / Food Science and Nutrition / Food Science and Quality Control / Food Safety and Quality Assurance / Food Process Engineering / Processing and Food Engineering / Food Processing and Preservation Technology / Post Harvest Technology / Industrial & Applied Microbiology / 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. 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-2023 followed by personal interview.
- ▶ NIFTEM-T Entrance Examination-2023 and personal interview will be conducted at NIFTEM-Thanjavur main campus.
- ▶ Reservation policy based on GoI norms.

Note*: ▶ Each Ph.D. discipline's sanctioned strength would be flexible for admission, vacancies in one discipline will be compensated in other discipline within the overall sanctioned strength of Ph.D.

▶ The seats are inclusive of NIFTEM-T in service candidates, as per institute norms.

Extra Curricular Activities

- ▶ MoE's Institute Innovation Council
- ▶ Sports Club
- ▶ Literary Club
- ▶ Science Club
- ▶ Alumini Association
- ▶ National Service Scheme
- ▶ Cultural Club
- ▶ Rotaract Club



Fees structure – M.Tech. & Ph.D. (Food Technology)

2023–24 – ACADEMIC FEES

S. No.	Details	Fees, Rs.	
		M.Tech	Ph.D
A. One Time Fees			
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
Total (A)		25200	36800
B. Semester Fees			
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 [§]	600	600
Total (B)		58295	51530
Total (A+B)		83495	88330

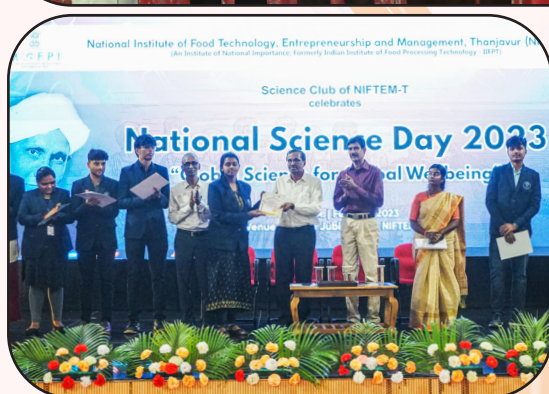
Note: *Tuition fee waiver scheme is applicable for eligible students as per the norms.

[§]Subject to revision as per the actual premium cost.

HOSTEL FEES & MESS CHARGES*

S. No.	Details	M.Tech	Ph.D
C. One Time Fees			
1	Hostel Admission Fee	1500	1500
2	Hostel Deposit (Refundable)	3500	3500
Total (C)		5000	5000
D. Semester Fees			
1	Establishment charges, (Hostel room rent, Electricity & Water charges)	15000	15000
2	Mess advance (dining charges on sharing basis)	20000	20000
Total (D)		35000	35000
Total (C+D)		40000	40000

Note: *Subject to revision



For further information, please contact:

Dean (Academics and Students Welfare)

National Institute of Food Technology, Entrepreneurship and Management, Thanjavur (NIFTEM-T)

An Institute of National Importance

(Ministry of Food Processing Industries, Govt. of India)

Pudukkottai Road, Thanjavur – 613 005, Tamil Nadu

Phone: +91-84899 11454

+91-4362-228155

Email: admission@iifpt.edu.in

www.niftem-t.ac.in