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with Flavourous Career



Admission Brochure
2018-19



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National Institute of Food Technology Entrepreneurship and Management
Deemed to be University (De-novo Category) under section 3 of the UGC Act, 1956 and
An Autonomous Institution under Ministry of Food Processing Industries, Govt. of India

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National Institute of Food Technology Entrepreneurship and Management
(A Deemed to be University-Under De-novo Category)
Ministry of Food Processing Industries, Government of India

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Dr. Chindi Vasudevappa
Vice-Chancellor
Niftem

NIFTEM'S BLOSSOM OF OPPORTUNITIES

Indian Food Processing sector is a sunshine sector which is expected to grow at a very fast pace. The sector holds the key to promote diversification and value addition in agro food processing and has abilities to support the Hon'ble Prime Minister's vision of doubling farmers Income.

National Institute of Food Technology Entrepreneurship and Management (NIFTEM) has been set up by Ministry of Food Processing Industries (MoFPI), Government of India on persistent demand of the food industry to have an apex organization as a "One Stop Solution Provider" for the various problems of the sector. The institute has been established with an initial investment of USD 100 million and spread over an area of 100 acres. NIFTEM is in pursuit of creation of a cadre of knowledge workers - people who are expert at configuring knowledge relevant to a wide range of contexts and are acknowledged as 'problem identifiers' and 'problem solvers'. It stands loud on its three pillars of Knowledge, Innovation, Outreach.

NIFTEM envisions being an International Centre of Excellence which integrates all facets of food technology, entrepreneurship and management and be recognized as the focal point for catalyzing the growth of the food processing industry in India in the global context. Focus of NIFTEM transcends beyond technology application and academic contribution.

In a very short time of its existence NIFTEM has achieved remarkable heights by obtaining 50th Rank in National Institutional Ranking Framework (NIRF), MHRD, receiving Agriculture leadership award for its Village Adoption Programme, and getting associated with 'Smart Gram Pilot Project' of Rashtrapati Bhawan as a partner institution for promoting entrepreneurship in food sector. NIFTEM has also been awarded platinum rating under the Green Building Certification (Indian Green Building Council) for the eco-friendly infrastructure and also hosting the project on installation of 1 MW Grid Connected Rooftop Solar Power Project with SECI for attaining self retain power management.

The institution has state of the art infrastructure to impart quality education and research through its knowledge centre, IT enabled classrooms, research labs and specialized centers like- International Grain Processing Research & Training Centre, International Bakery Research and Training Centre, International Centre of Excellence for Food Safety and Quality and Centre for Entrepreneurship Development. NIFTEM has also entered into MOU with leading international and National institutions and host International student exchange programme for students.

To meet the additional needs of business incubation, entrepreneurship and start-ups, NIFTEM established pilot plant complex as a major intervention focusing on Fruits and Vegetables, Dairy and Dairy Products, Cereal and Pulses, Meat and Poultry and Ready to eat products. These will act as resource point for experiential learning for students and providing exposure to working environment in Food Processing industries and will also be used for idea/technology incubation.

The NIFTEM Pariwar though small, striving hard to address the mandated vision and mission of NIFTEM.

(Dr. Chindi Vasudevappa)
Vice Chancellor

Chapter 1

PROLOGUE

National Institute of Food Technology Entrepreneurship and Management (NIFTEM) was conceptualized by Government of India on persistent demand of the food industry to have an Apex Organisation as a One Stop Solution Provider for the various problems of the sector. Ministry of Food Processing Industries, Government of India, has set up this institute with an initial investment of about Rs 500 crore (US \$125 million). The Institute is spread over an area of 100 acre at a prime location in close proximity of North Delhi – Haryana border on NH-1. The Institute aims at becoming an international center of excellence in the area of Food Technology and Management. NIFTEM has been recognized as a Deemed to be University under De-novo Category by the University Grants Commission, Ministry of Human Resource Development.

MANDATE OF NIFTEM

NIFTEM has a mandate to work as Sector Promotion Organisation/ Business Promotion Organisation of the food processing sector. The major objectives of NIFTEM are:

- ◆ To work as One Stop Solution Provider to all the problems of the sector.
- ◆ To work for Skill Development and Entrepreneurship Development for the sector.
- ◆ To facilitate Business Incubation Services.
- ◆ To conduct Frontier Area Research and foster Innovation for development of the sector.
- ◆ To develop World Class Managerial Talent coupled with advanced knowledge in Food Science and Technology.
- ◆ To function as a Knowledge Repository.
- ◆ To work for up-gradation of SME food processing clusters.
- ◆ To provide intellectual backing for regulations, governing food quality and safety.
- ◆ To promote cooperation and networking among existing institutions within India and abroad.



ACTIVITY FOCUS OF NIFTEM

- ◆ Education and Research
- ◆ Skill Development
- ◆ SME Upgradation
- ◆ Consultancy
- ◆ Extension and Outreach
- ◆ Technology Enterprise Incubation
- ◆ Food Safety & Quality



NIFTEM Provides

WORLD CLASS EDUCATION IN FOOD TECHNOLOGY AND MANAGEMENT

- State of art infrastructure and equipment.
- Teaching labs of international standards encompassing 7223 m² area.
- State-of-the-art research labs under establishment.
- Modern classrooms with interactive board, projection system and lecture recording facility.
- Acclaimed Faculty with Global Exposure.
- Video conferencing facility for interaction with foreign teachers.
- Five Pilot Processing Plants with state-of-art-facilities being raised. A state-of-art Food Testing Laboratory.

INNOVATIVE CONCEPTS IN EDUCATION

- B.Tech and M.Tech programs is a unique blend of technology and management.
- Innovative, globally benchmarked curriculum.
- Innovative approach for teaching through e-contents.
- Catering socio-technical issues through a unique Village Adoption Programme.
- Regular Interactive sessions with top professionals and managers of food industry.
- Experiential learning opportunity through industry internship.
- Innovation Research fund for students.
- International Exposure to the students through “Student Exchange Program”

Chapter 2

ACADEMIC DEPARTMENT



DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

The department aims at promoting innovations in food sector and catalyzing the growth of food processing industry in India in global context. Apart from imparting world-class education in the fields of food science and technology, the department has research programmes in frontline areas of Food Science and Technology. The department is also involved in skill development of the farmers and industry personnel.



DEPARTMENT OF FOOD ENGINEERING

Department of Food Engineering prepares the prospective food entrepreneurs and food techno-managers by providing them the basic concepts and practical experience of food processing equipment design, process control and systems analysis. Equipped with this knowledge, the food engineers take up challenges in efficient and environmentally sustainable manufacturing of high quality, nutritious and safe foods using state-of-the-art process controls and incorporating the latest advancements in science and engineering.



DEPARTMENT OF FOOD BUSINESS MANAGEMENT AND ENTREPRENEURSHIP DEVELOPMENT

This department has been conceptualized to groom future leaders in Food Science and Technology who can make a difference in Agri-Food Business for India and the world. The main aim is to work for development of managerial and entrepreneurship skills for the food processing sector. The immense knowledge potential may be channelized to function as a knowledge repository on various aspects of food processing such as product information, production and processing technology, market trends, safety and quality standards and management practices, among others.

DEPARTMENT OF BASIC AND APPLIED SCIENCES

The department encompasses different fields related to basic sciences such as Physics, Chemistry, Microbiology, Biochemistry and Mathematics. The functional areas of the department include: food safety and quality, food and human nutrition, chemical aspects of foods, application of physics in food processing, food testing (microbiological and chemical) and mathematical modeling in food processing.

DEPARTMENT OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

This department looks after pre and post harvest management of food crops, fruits and vegetables. A major focus of the department is on the cutting edge production technologies such as plant tissue and cell culture and protected agriculture. The research also encompasses farm produce sustainability and profitability in Indian agriculture along with environmental issues such as climate change, waste management etc. NIFTEM's Village Adoption Programme is coordinated by the department.

Chapter 3

ACADEMIC SUPPORT FACILITIES



LABORATORY AND PILOT PLANTS

NIFTEM houses state-of-the-art teaching and research facilities in food technology and allied areas.

There are

- Four pilot plants covering Fruit and Vegetable Processing, Milk and Dairy Products, Meat and Poultry Processing and RTE and Traditional Food. These will be used for experiential learning by students and providing exposure of working environment of Food Processing Industries. The pilot plants will also be used for scale up process, commercialization of business ideas and development of entrepreneurship in future.
- 14 well-equipped Academic laboratories in the area of Animal Product Lab, Biochemistry, Central Instrumentation Lab, Chemistry, Computer, Communication, Dairy and Food Engineering, Engineering Workshop, Electrical & Electronics, Food Engineering, Food Packaging, Food Science and Technology Lab, Microbiology, Physics.



NIFTEM KNOWLEDGE CENTER (LIBRARY)



The NIFTEM Knowledge Center (NKC) is a five storey building having an area of 6580 m². The state-of-the-art NKC is housed in aesthetically designed boat shaped signature building amidst the NIFTEM campus. The aim of the NKC is to cater to the needs of the undergraduate and postgraduate Students, Research Scholars and the faculty members of NIFTEM. It also caters to the needs of users through internet/ intranet by providing information services to all the stakeholders relating to bibliographic, full text digital and printed resources to support the scholarly and informational needs of the NIFTEM community.

Chapter 4

MAJOR HIGHLIGHTS OF NIFTEM

Resources/ facilities	Status
Print Books	more than 7978 titles and more than 18149 volumes
Print Journals / Magazines	above 90
E-Journals (EBSCO, UGC-INFONET, T&F, IEEE, J-Gate, ASTM, EJ-Server etc.)	More than 16722
E-Books (ASTM, T&F, Woodhead, EBSCO etc.)	More than 1174
Library Software and EM-RFID System	VTLS-Virtua and 3M
ISO Standards	More than 600
Classification Scheme	DDC 23 rd ED
Reprography / printing/ Scanning Facility	Yes
Digital Library Facility	Yes (12 Multimedia PCs)
Indexing / Barcode	Yes
OPAC (Online Public Access Catalogue)	Yes
Seating Capacity	More than 200



INNOVATION IN EDUCATION

COLLABORATIONS ACROSS THE GLOBE

- NIFTEM has MoU with world class institutions viz. Wageningen University, The Netherlands, Kansas State University, USA, University of Nebraska Lincoln, USA, University of Saskatchewan, Canada, McGill University, Canada, IFSH, Chicago and National MoU Partner Institutions viz. CFTRI, Mysore, IARI, Delhi, GSI India, Delhi, NDRI, Karnal, NITIE, Mumbai, and EDI, Ahmedabad



NIFTEM, McGill University ink MoU for collaborative research

STUDENT'S FOREIGN EXCHANGE PROGRAMME

Right from their first year itself, every year meritorious students from each batch of B. Tech. and each of the five M. Tech. programmes are sent to foreign universities on student exchange programme of academic learning with 100% fare.

Student exchange to foreign universities till date:

- University of Nebraska-Lincoln, USA
- Kansas State University, USA
- University of Saskatchewan, Canada
- Institute of Food Safety and Health, Illinois Institute of Technology, USA
- McGill University, Montreal, Canada
- AIT Thailand

INNOVATION RESEARCH FUND FOR STUDENTS

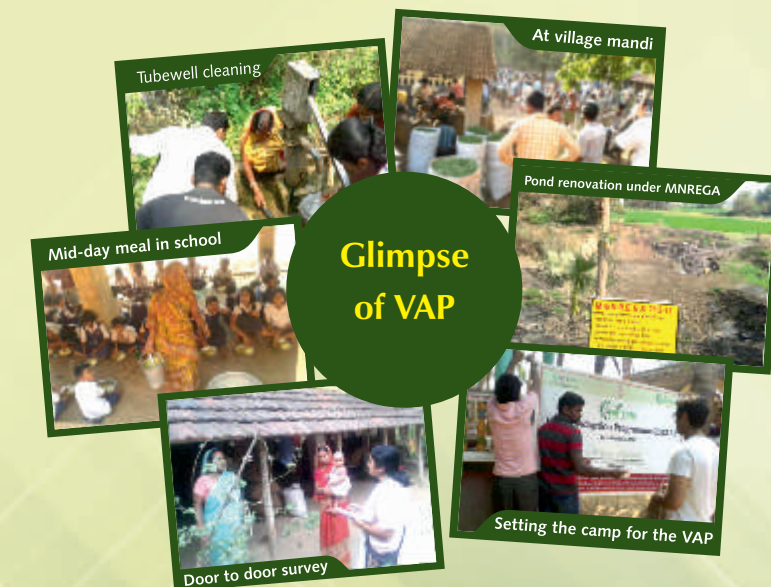
- NIFTEM has conceptualized creation of an Innovation Fund for the students.
- Innovative projects submitted by the students costing upto Rs.15.00 lakh are normally funded.
- Limit can be exceeded in case of highly deserving projects.

VILLAGE ADOPTION PROGRAMME (VAP)

- A unique approach to pervade Food Processing Technologies and NIFTEM's message to the least developed villages of India.
- Students are divided into groups of 10 to 15 immediately after their joining the B. Tech/ M. Tech. programmes at NIFTEM.

AIMS OF VAP ARE :

- To create a symbiotic learning environment for students.
- Enlighten the students to grass root problems of villages and of food supply chain.
- Inculcating the capabilities suiting to emerging job markets in food supply chain and to develop entrepreneurship spirit.
- Making village community acquainted with latest technologies on agro food production and processing.



INDUSTRY INTERNSHIP FOR B. TECH AND M.TECH STUDENTS

All the students of B. Tech and M.Tech are placed in prominent food processing industries for 5 months industrial internship

ACHIEVEMENT OF NIFTEM

NIFTEM has been awarded the highest Platinum rating in the Green Building Certification for existing infrastructure. Many initiatives were taken under Green Building Certification such as installation of water and energy meters, energy and water auditing, waste Segregation and Disposal Station under NWM, installation of 1 MW Grid Connected Rooftop Solar Power Project, Biogas plant for Food Waste, 100% waste water treatment, 100% use of treated and recycled water in flushing and horticulture, ramps for physically handicapped and conversion of ordinary lights into LED Lights.

INFRASTRUCTURE

NIFTEM developed a world class infrastructure including centrally air conditioned, Administrative, Academic, Laboratory Blocks, Library, cafeteria, a multi-level five story 5474.29 sqm. State-of-art library established at a cost of Rs. 10.00 Crore with 6843+ books and 15698+volumes, 108 print journals/magazines, 16722+ e-Journals, 08(100 seater) Lecture Halls, 09 (25 seater) Class rooms, 06 Tutorials rooms, 03 Seminar Halls, 02 Common Rooms, 800 seater capacity auditorium, Reading Hall 8 & PhD study carrels at NIFTEM Knowledge Center, NIFTEM is a fully residential Green Campus with 30, 000 trees planted in the 100 Acres campus. It has 24 hours power backup/bank/Post Office/Dispensary/24 hours Ambulance/Shopping Center etc. and 04 hostels (03 for boys & 01 for girls), an International Guest House. NIFTEM has sports complex with world class infrastructure facilities including 02 Play Courts of Lawn Tennis, Basketball and Volleyball, 04 Play Courts of Badminton, 02 Cricket Practice Pitch, 01 Football Ground, 01 Kabaddi Ground and NIFTEM Central Gym. Student's Activity Centre with working space for Cultural, Fine Arts, Literary, Technical and other student societies under NIFTEM Gym Khana Club has been developed aiming overall development of NIFTEM students.

ACHIEVEMENT OF NIFTEM



I-T INITIATIVE

- Entire campus is equipped with wi-fi facility with 100 MBPS Internet Speed.
- Audio-Video lecture recording.
- Centralized bio-metric attendance for students in class rooms & hostels.
- Campus wide local area network.
- Authorized access management system for internet, CCTV, gateway security.
- Video conference interview/lecture system.
- SMS service in campus for in and out information of students to their parents.



NIFTEM's NEWSLETTER

Publication of quarterly newsletter 'Abhivyakti' where Faculty and students contribute. The newsletter is circulated to all concerned sectors, ministries, department and the people.

GRANT OF DEEMED UNIVERSITY STATUS



- NIFTEM was declared a Deemed to be University under De Novo Category on 8th May, 2012 by the Central Govt., Ministry of Human Resource Development.

STUDENT WELFARE AT NIFTEM

- Each student is provided well furnished room with bed, study table and chair, curtains, almirah etc.
- Well furnished Mess, 24 hr Tuck Shop and Amul Shop for snacks and soft-drinks.
- 24 hrs Medical services with availability of ambulance.
- Extracurricular activities on regular basis.
- Indoor and outdoor sports facilities.
- Security and safety in campus for all the students



- Mentorship meets at regular intervals.
- Industry Internships & visits to the top Food Processing Industries.
- Help for loan to students and guidance for various State Scholarships.
- Corporate Resource Division established to bring corporate vision & thoughts closer to the students.
- Two types of scholarship namely Merit Scholarship & Merit-cum-means scholarships are granted to students besides fellowship to GATE qualified M.Tech Students.

RESEARCH ACTIVITIES AT NIFTEM

- A Research Cell established.
- Internal funding of research projects started. 17 research projects approved and work is in progress.
- A research project from Indian Council of Medical Research in collaboration with NDRI, Karnal started at a cost of Rs. 31 Lakh.
- NHM funded Project for Rs. 1.51 crore sanctioned.
- NHB Project for Rs. 3.25 crore sanctioned.
- Another project funded by Haryana Farmers Commission for Rs. 50 lakh is in the final stage.
- Students innovation fund established to provide grant for testing innovative ideas of NIFTEM students.



CONFERENCE/SEMINAR/WORKSHOP

A large number of Conferences/Workshops have been organized in different areas pertaining to different aspects of Food Sector.

- Organized First International Conference at Niftem on "Innovations and Food Processing during January 2012
- Value Chain Management and Food Safety" on January 10-11, 2013 and workshop on food safety on January 12, 2013.



GLIMPSES OF VARIOUS CONFERENCES AND WORKSHOPS HELD AT NIFTEM

- 2nd International Conference was organized on "Emerging Food Safety Risks: Challenges for Developing Countries" during January 9-10, 2014 followed by a Workshop on "Food safety and Quality" on January 11, 2014.
- 3rd International Conference was organized on "Food Value Chain: Innovation and Challenges" during March 16-17, 2016 followed by a workshop on "Quality Management in Grain Industry" on March 19th, 2016.
- Two National Seminars on "Revitalizing Indian Agriculture" and "Bioactive Compounds and Functional Foods in Health and Disease Management" were organized during 2013.
- National Conference on "Sustainability Issues in Food Processing sector- Greening of Food Processing Industries" was organised during June 18-19, 2015.
- Dehydration of Food and Agricultural Products: Principles, Practices and Prospects from 20-27, February 2015.
- Brainstorming workshop on "Greening of Food Industry" was held on 9th May, 2015.
- Seminar on "Post Harvest Technologies and Food Processing in India and New Zealand" from July 20-22, 2015.
- International Conference on Food Value Chain: Innovations and Challenges (March 17th-18th, 2016) & Workshop on Quality Management in Grain Industry (March 19th, 2016)

CREATION OF NEW DIVISIONS

Consultancy Division

- To strengthen Food Processing sector by universalizing core competitiveness in the sub sector.
- Enhance business capabilities of SMEs.
- Single window catering across the sectors.



Skill Development Division

- Organised 6 one day outreach programmes benefitting 2547 participants.
- 30 STTPs of 3-5 days, 9 one week & 8 two weeks duration benefitting 626, 454 & 360 participants respectively.
- Totally benefitting 3987 persons in two years.

INTERNATIONAL GRAIN PROCESSING RESEARCH AND TRAINING CENTER

- The center has its mandate as training, teaching, research and technology transfer in the area of primary (shelling, milling, dehusking etc.) and secondary (breakfast cereals, multigrain products, whole grain products etc.) grain processing.
- To come up with novel uses of grains through grain starch research, modification of starch, extruded specialties, including fermentation technology applied to cereals and development of value added products etc.

INTERNATIONAL BAKERY RESEARCH AND TRAINING CENTER

- The International Bakery Center aims to facilitate experiential learning and product development for the Baking Industry of India.
- The center would conduct research on the problems of the Baking Industry.
- The center would also train the people and upgrade their skills to achieve quality in the bakery units.
- The center helps new entrepreneurs to set up bakery business.

INTERNATIONAL CENTER OF EXCELLENCE ON FOOD SAFETY AND QUALITY

- Being a public funded institution and in its role of Single Solution Provider, NIFTEM has come forward to take initiatives to establish a state of art Center of Excellence to work on Food Quality and Safety issues.
- Functional areas of the center are: Process development and process validation, quality control and quality assurance, quality systems and systems certification, surveillance and monitoring of food borne outbreaks, risk prioritization, Food functionality, toxicity and efficacy, analysis and certifications.
- Besides Conferences and several training programmes for creating awareness for food safety being regularly conducted under the banner of International Center of Excellence in Safety and Quality.

The list of training programmes conducted till date in the areas related to food safety is given below:

1. Three days training program on 'GMP/GHP/HACCP & product management requirement in food processing industries'.
2. Three days training program on 'Quality issue in meat processing sector'.
3. Three days training program on 'Food Regulation'.
4. Three days training program on 'Quality issue in meat & poultry processing sector'.
5. Three days training program on 'Understanding and implementing GMP/GHP as per licensing regulations'.
6. Three days training program on 'Hazard analysis and critical control points (HACCP)'.
7. Three days training program on 'Laboratory quality management system as per ISO/IEC 17025'.
8. Three days training program on 'Understanding and implementing ISO 22000/FSMS.'
9. A two week training programme on 'Integrated food management: Farm to fork' under the aegis of Indian

Technical and Economic Program as a part of the India Africa Forum Summit (IAFS II)

10. International conference on 'Emerging food safety risks: challenges for developing countries.'
11. Three days training program on 'Food regulation'.
12. Three days training program on 'lab quality management & system and internal audit as per ISO/IEC 17025'.
13. Three days training program on 'Good microbiological laboratory practices.'
14. Awareness programme on 'Street foods.'
15. Three days training programme for NIFTEM M. Tech (II year) and Ph.D. students on 'Food laws, food regulations and quality management systems.'
16. Workshop on "Detection of food allergens, halal meat, speciation of cow meat and buffalo meat in different products for ensuring food safety."

ACADEMIC AND RESEARCH ENDEAVOURS

- Promotion research & to work in emerging areas of knowledge, Ph. D. Programmes started in all the five PG departments besides Doctoral Fellowship.
- An International Project was sanctioned to NIFTEM through USIEF to host Fulbright Specialist Dr. Ronal Noyes Emeritus Professor Okhlama, State University, USA at International Grain Processing & Research Centre of NIFTEM to offer a course M.Tech students & to promote research on bulk grain storage.
- Academic Audit & Monitoring System established.
- Eminent experts are invited to deliver extension lectures.
- World Renowned Professors on the list of NIFTEM's Professor Emeritus & Visiting Professors.

NIFTEM'S RESEARCH POLICY FOR UNDERTAKING RESEARCH PROJECTS

Today, looking at the needs of the food sector and its various stakeholders, there are several areas which require undertaking focused studies and R & D projects. Based upon the problems and needs of producers, manufacturers, regulators, policy makers and the consumers, NIFTEM has its research policy in place as given below and has prioritized its areas of research:

1. The outcome from the research project should be able to solve problem of the food industry.
2. The outcome of the project should lead to some public good and should be in the interest of the public.
3. The results from the project should be marketable.
4. The deliverables from the research project should result into opening of new vistas related to any of the food sector for further development.

At present Research Activities are being undertaken by NIFTEM in the form of carrying out Innovative R & D project related to food processing/technology/developing new equipment under the following programmes:-

i Ph.D Research Programme

The students registered during 2013-14 batch in the various five departments of NIFTEM are on the verge of completing their research work. All Ph.D. projects are internally funded by NIFTEM. Total projects undertaken till date are 45.

ii M.Tech Research Programme

Based upon the various industrial problems and the issues related to food safety, short terms (6 months to 12 months) research projects are allotted to the students of M.Tech 2nd year as a part of their course curriculum. All M.Tech projects are internally funded by NIFTEM. Total projects undertaken till date are more than 350.

iii B.Tech Research Programme

As a part of the course curriculum of B.Tech., short term research projects are allotted to B.Tech students in groups of 3 to 5 students during their eighth semester. The research projects are based on various industrial problems and the issues related to food safety. All B.Tech projects are internally funded by NIFTEM. Total number of projects undertaken till date is 25.

iv. Innovation fund scheme for NIFTEM students (M.Tech and B. Tech)

Understanding the importance and role of Innovative Technologies in Food Processing Industries for preserving crops, reducing wastage, creating value and enhancing farmer income and for creating employment opportunities at the lower strata of social structure, NIFTEM has conceptualized creation of an Innovation Fund for the students at NIFTEM. Under this initiative, NIFTEM proposes to extend Financial Assistance to the students to motivate all students in particular to undertake innovative projects which would ultimately result into proof-of-concepts, design of equipments, etc, thus having high social societal and commercial impact and thereby helping in the growth of Indian food Industry. Project funding is maximum upto Rs 15.00 lakh. This fund limit may be extended in case of highly deserving projects with prior approval of the Vice-Chancellor, NIFTEM. Total number of projects undertaken till date is 7.

v. Internally Funded Research Projects

In order to begin research activities at NIFTEM, it was decided to provide the internal funding to research projects so that in-house faculty members could start research immediately. Under this scheme three projects worth Rs. 35 lacs were started.

vi. Externally Funded Research Projects

During the same time the different faculty members have also submitted research proposals for funding from external agencies.

vii. Externally Collaborative projects (Faculty & Students)

Based upon regular interactions with the industry and feed back during the regular brainstorming sessions involving: Industry-Academia- Research Institutes, industry collaborative projects are undertaken as per the suggestions of the industry in order to solve the problem which the industry might be facing. Total number of projects undertaken till date is 10.

viii. Writing of Status Papers

Besides taking research projects involving experimental work, projects are also undertaken based upon literature search. As Food Processing Sector is a nascent sector, not enough authentic information is available on various issues of the sector as well as of the Food Processing Industries. This becomes a limiting factor most of the time in the growth of sector itself. The exercise of policy making by the Government is also hindered by the absence of authentic data/information. Keeping this in mind, NIFTEM has taken an initiative of developing 'Status Papers' on various identified important issues of the sector so that such a source of authentic information can become useful for various stakeholders of the sector. 1st year M.Tech students after joining the Institute, are given a topic each, related to different aspects of food industry (product (raw or processed), processing techniques, equipment, packaging, business models etc.) on which the student works for nearly a year and a half under a faculty guide. Regular progress of the papers is monitored through quarterly presentations given by the students. After the final evaluation by the guide, the papers are sent to two external examiners for their further comments and suggestions. The finalized papers would then be put in public domain so that it becomes a useful document for all the stakeholders.

NIFTEM RESEARCH AND DEVELOPMENT COUNCIL (NRDC) & NIFTEM INDUSTRY FORUM (NIF)

In order to undertake meaningful Research projects in the area of Food sector time to time brainstorming sessions are held with the members of Industry academia & Research Organisations:-
NIFTEM has two advisory research bodies i.e.

1. NRDC comprising of 50 members
2. NIF consisting of representatives of Micro, Small, Medium and Large Industries in Food Processing Sector

CAREER PROSPECTUS

CAREER PROSPECTS IN FOOD SECTOR

Food industry in the country looks forward to a rapid growth with change in socio-economic environment and food consumption pattern of the prospering population in general and of the youth, in particular. Indian Food processing Industry is growing at a rate of around 10% per annum as compared to the total industrial growth of 3.7%, in the country. The food processing sector attracted 100% a foreign direct investment (FDI) of 63.0 million US\$ in 2015-16. A study conducted by Institute of Applied Manpower Research (IAMR) foresees a wide skill gap at various levels in food sector touching around 35 million by 2017. Thus Food Industry is going to be a major employer in the days to come.

NIFTEM aims at expanding the food technology research and education far beyond the conventional realm, by covering upstream food technology disciplines and providing exposure to its students in cutting edge areas of relevance. The focus of NIFTEM transcends beyond traditional technology applications, so as to provide better career prospects to students in the field of Food Technology and Management to enable them to meet the demands of high-end professionals in Food Industry.

Processing in food sector is growing and of eminent importance. In today's scenario, processing will give farmers its due

and NIFTEM, through Village Adoption program is providing the same. The curriculum at NIFTEM has been designed as per the Industries' feedback regarding difficulties in recruiting suitably trained manpower as there is a huge shortage of the same.

CAREER OPTIONS IN FOOD SECTOR:

There are various opportunities for students in food processing and food service sectors:

- Product Development Scientist
- Sensory Scientist
- Food Microbiologist
- Food Analyst
- Quality Control Manager
- Food Process Engineer
- Food Ingredient Manager
- Food Regulatory Affairs Specialist
- Nutrition Specialist
- Supply Chain, Cold Chain Logistics Specialist
- Food Fermentation Specialists
- Food Processing Sectors: snack food, beverages, meat, winery, dairy etc.
- Food Service Sectors: supply chain, post harvest, food retailing, food regulations and health and wellness service providers.
- Managers, Technocrats and Consultants in Food Industry.
- Pursuing higher degree for careers in Academia and research.

LIFE AT NIFTEM CAMPUS

NIFTEM is a fully residential Green Campus with 30, 000 trees planted in the 100 Acres campus. It has 24 hours power backup/bank/Dispensary/24 hours Ambulance/Shopping Centre etc.

NIFTEM has 04 hostels (03 for boys & 01 for girls) and an International Guest House. Ambience with the right blend for studies and extracurricular activities has been created in the hostels. The living rooms are well furnished and spacious with all the modern amenities. A well designed common room provided with television facility is another feature. A separate gymnasium has been provided in the hostel to improve physical health & vigour. Laundry service is also available for washing and ironing of the clothes with in the hostels. A 24 hour canteen service has been provided in the hostels to the students. This provides hygienically prepared snacks, soft drinks and other eatables to students on payment basis. Staying in the hostel is mandatory for each student.

NIFTEM has sports complex with world class infrastructure facilities including 02 Play Courts of Lawn Tennis, Basketball and Volleyball, 04 Play Courts of Badminton, 02 Cricket Practice Pitch, 01 Football Ground, 01 Kabaddi Ground and NIFTEM Central Gym. Student's Activity Centre with working space for Cultural, Fine Arts, Literary, Technical and other student societies under NIFTEM Gym Khana Club has been developed aiming overall development of NIFTEM students.

DETAILS OF HOSTEL ADMINISTRATION

Name	Post	Contact Number
Dr. Vijendra Mishra	Dean (Student Welfare)	(O): +91-130-281272
Er. Nitin Kumar	Associate Dean (Student Welfare)	(O): +91-130-2281250
Dr. Anurag Singh	Warden	(O): +91-130-2281255
Dr. Tribhuvan Nath	Warden	(O): +91-130-2281258
Dr. Prarabdh Badgajar	Warden	(O): +91-130-2281249
Er. S. Thangalakshmi	Warden	(O): +91-130-2281240

Chapter 6

ADMISSION GUIDELINES GENERAL INFORMATION



GENERAL INFORMATION

ATTENTION: Aspirants must read this section before referring to the programme of interest and filling up the online application form.

1. Reservation for Indian Nationals: The number of seats in the B. Tech. program in NIFTEM, as announced in this admission brochure, shall be strictly adhered to, except for such minor adjustment as may be necessary on account of rounding off of fractions to accommodate reservations, as given below:
 - (a) 27% reservation to Other Backward Class (from non creamy layer and with a valid certificate indicating eligibility for admission to central government institutions only. Please refer to Annexure-I at the end of this brochure for format of certificate for claiming reservation under this category)
 - (b) 15 % for candidates belonging to the Scheduled Castes.
 - (c) 7.5% for candidates belonging to the Scheduled tribes.

Further, 5% seats are reserved (horizontal reservation) for Persons with Disabilities (PWD) candidates.
2. The PWD should have a minimum of 40% disability, provided that the claimant in this category is otherwise capable to pursue the course for which the admission is sought. All physically challenged persons should produce a certificate of their permanent physical disability from a CMO/Civil Surgeon of a District or Director/Principal or a Professor of a Medical College affiliated to University or an institution of national importance.
3. Due reservation and concessions would be given to Kashmiri migrants as per Government of India Norms, provided they clearly mention their category in application forms.
 - Relaxation in cut off percentage up to 10% subject to minimum eligibility requirement.
 - Increase in supernumerary quota up to 5% in each programme.
4. For foreign nationals, 15% supernumerary seats have been created which including 5% reserved seats for students from South East African countries and wards of Indian workers in Gulf Countries. In case of non availability of applicants from South East Asian countries and wards of Indian worker in Gulf countries the seats reserved for them under foreign student category will be made open to other foreign nationals. Being supernumerary seats, these will not be made open to Indian Nationals.
5. The Ph.D. entrance test and M.Tech. entrance test, will take place at NIFTEM Campus, Kundli, District-Sonepat, only. There would be no other centre within or outside the country.
6. Application forms for admission in B. Tech., M.Tech. and Ph.D. Programmes of NIFTEM are to be filled online only. Applicants should not send the printed copy of application form to NIFTEM. Detailed admission brochure is available on the website. However interested candidates may ask for a print copy of the admission brochure from institute reception counter on payment of Rs 400/- through a demand draft (DD drawn, in favour of 'NIFTEM' payable at Kundli, District Sonapat, Haryana) or in cash. The printed brochure may be requested by post on

payment of Rs 500/- (inclusive of handling and postage charges of Rs. 100/- extra) in the form of DD accompanied by a written request addressed to The Head, Admission Cell, NIFTEM, Plot No. 97, Sector 56, HSIIDS Industrial Estate, Kundli-131028, District: Sonapat, Haryana.

7. Final merit list, counseling schedule and counseling would be uploaded on the institute website only. For such information/ updates, the website should be visited frequently. It may be noted that no postal communication will be made to any applicant in this regard.
8. However, in interest of the applicants NIFTEM also attempts to send SMS and email alerts on the numbers and mail ID provided in the application forms. Onus of any delivery failure in this regard would depend on the applicant. It is advised that DND facility and other restrictions, if opted on the mobiles, should be deactivated during the admission period. The entries of mail ID and mobile numbers in the application form must be made correctly with utmost care.
9. Under unavoidable circumstances, any prescheduled event/ activity given as admission timeline in the brochure may be changed. All such official notifications including merit notification and change in date, if any, will be made on the NIFTEM website only.
10. Admission of Foreign Nationals will be strictly under Guidelines/ Instructions provided in the section-'Admission Guidelines for International Students'. Scholarships / Fellowships mentioned in the brochure are available to Indian Nationals only unless otherwise mentioned. Vacant seats of foreign national quota will NOT be transferred to Indian nationals.
11. Documents required for online Counseling: Candidates, if called for counseling, are required to submit following certificates:
 - ◆ Class X Marksheet and Certificate (as a proof of DoB; for all candidates)
 - ◆ Class XII Marksheet and Certificate (For B. Tech candidate only)
 - ◆ Undergraduate Marksheet and Certificate (For M Tech and Ph D candidate only)
 - ◆ Postgraduate Marksheet and Certificate (For M.Tech., wherever applicable and Ph.D. candidates only)
 - ◆ JEE Main 2018 Admit Card and Score sheet (for B.Tech. candidates only)
 - ◆ Vaild GATE Scorecard (for M.Tech. and Ph.D. candidates only)
 - ◆ NET Certificate (for Ph.D. candidates only)
 - ◆ Caste Certificate (s) (if applicable) of SC/ST/OBC (OBC candidates must refer Annexure-I at the end of this brochure for valid format).
 - ◆ Character Certificate from School/ College / University last attended (for all candidates)
 - ◆ Medical Certificate of handicap for Physically Handicapped candidates
 - ◆ Migration Certificate, if applicable
 - ◆ Passport size coloured photograph

*** Documents both in original and Xerox copies to be submitted during reporting time after getting online admission**

Important Note:

- (a) Candidates failing in production of Category/ Physically Challenged certificate during the counseling will considered as GENERAL and will automatically lose his/her claim of due reservation.
- (b) The caste certificate should be in the name of the candidate seeking admission. The caste certificate in the name of either of parents (Father/ Mother / Husband) is not acceptable. The name and other particulars in the caste certificate should be identical to that in Application form as well as in the 10th and 12th class certificates. Any variation in the name or other particulars in reserved category certificate may lead to refusal for admission by Admission Cell in the reserved category.
- (c) In the absence of caste certificate, the candidate will not be entitled for any provisional admission in reserved category on the basis of any undertaking.
- (d) In the absence of mandatory documents of proof for eligibility the candidates will not be allowed to attend the counseling.

Application fee for B. Tech / M. Tech / Ph. D./MBA (* Non Refundable)

Category	Fee (Rs)
SC/ ST	500
General / OBC	1000

Chapter 7

ADMISSION GUIDELINES B. TECH. PROGRAMME



FOR B. TECH. PROGRAMME

National Institute of Food Technology Entrepreneurship and Management (NIFTEM) offers unique Under Graduate programme of B. Tech. degree in Food Technology and Management (FTM). Specific guidelines for admission to this programme for the academic session 2018-19 are provided as under:

ELIGIBILITY:

Educational Qualification:

1. Candidates who have passed their Class 12th Exam or any other qualifying examination in 2016 or 2017; or those who are appearing in Class 12th Exam in 2018 are eligible.
2. Candidates who appeared in class 12th/equivalent qualifying Examinations in 2015, did not pass in 2014, but passed in 2016 are not eligible for admission.
3. Candidates must secure at least 50% marks in all subjects.
4. Besides a candidate must have appeared in JEE (Main) – 2018.

Note 1. A candidate, who gets a compartment in the 10+2 examination held in March/April, 2018 will not be eligible for admission even if he/she clears the same (by appearing in the supplementary examination) before the reporting/counselling dates.

Note 2. Percentage of marks in each subject in qualifying examination shall be worked out as suggested by the certificate awarding Board/University/Council. If the Board/University/Council awards grades without providing equivalent percentage of marks on the grade sheet, the candidate, should obtain a certificate from the respective Board/University/Council specifying equivalent percentage conversion formula, and submit the same at the time of reporting/counselling. In the absence of such a certificate, the decision of the Admission Cell regarding his/her eligibility shall be final.

Note 3. The date of birth as recorded in the high school/first Board/Pre-University certificate will be accepted. If the certificate does not mention the date of birth, a candidate must submit along with the application, an authenticated document by a competent authority indicating the date of birth.

SELECTION PROCESS:

The merit list will be prepared purely based on All India Rank of JEE (Main)-2018 of the eligible applicants. On-Line counselling procedure for admission will be followed. Kindly refer to NIFTEM website regularly for any changes.

NUMBER OF SEATS:

For Indian Nationals: 180 (reservation as per government norms).

For Foreign Nationals: 27 (Including 9 seats reserved for students from South East Asian countries and Indian worker in Gulf countries) over and above 180 seats.

The Seat Matrix (Indian Nationals) for B. Tech. (Food Technology and Management) is shown below:

Category	GEN	OBC	SC	ST	Total
No. of Seats	90	48	27	15	180

5% seats are reserved (horizontal reservation) for Persons with Disabilities (PWD) candidates.

In addition to the guidelines provided above, all applicants must also read general instructions, provided in this brochure. Likewise foreign national must read instructions given in relevant section in this brochure for foreign nationals.

SCHOLARSHIPS AND FINANCIAL SUPPORT:

- Merit scholarship and merit cum means scholarship up to 10% students.
- Earn while you learn programme.



State Bank of India, NIFTEM Campus Branch offers all banking service including 24x7 ATM facility in the Campus. It has also included NIFTEM under SCHOLAR LOAN SCHEME, which facilitates the students Education Loan without Collateral security upto 7.5 lacs, with concession rate of interest, The bank also provides **SB Collect facility** (for online payment of fees to NIFTEM)

For details, SBI branch can be contacted at Tel: 0130-2372113/23721143; E-mail:sbi.15479@sbi.co.in

Annexure-I

Fee Structure for Four years (Eight Semesters) B.Tech. Programme of NIFTEM is given as under:

Particulars	1 st Semester (Rs.)	2 nd Semester and onwards (Rs.)
A) At the Time of Admission (One time)		
Institute prospectus & Enrolment Form	1,000	NIL
Admission Fee	4,900	NIL
Identity Card Fee	400	NIL
Library & Book Bank Fee	4,100	NIL
Alumni Fee	1,250	NIL
B) Development Funds		
Institute Development Fund	23,450	23,450
Innovation Fund	5,800	5,800
Scholarship Fund	5,800	5,800
Student Activity & Welfare Fund	5,800	5,800
Start up Fund	NIL	NIL
Hostel Development Fund	11,500	11,500
C) Tuition & Other Fee		
Tuition Fee	43,000	43,000
Lab Support Fee	4,100	4,100
Examination Fee	2,900	2,900
D) One Time Security Deposit (Refundable)		
Institute Security Deposit	5,000	NIL
Library Security Deposit	5,000	NIL
Mess Security Deposit	5,000	NIL
E) Hostel & Other amenities		
Hostel rent (Seat wise)	8,300	8,300
Medical Fees	2,100	2,100
Electricity, IT and water supply	3,300	3,300
Total	1,42,700	1,16,050
Total Course Fee for the Programme for 2018-22 batch		9,57,550

Students who got admission has to pay full semester fee (no instalments) via online payment process.

*In addition to above the mess charges @ Rs. 15000/- per semester will be charged at the time of registration for each semester and Convoation fees of Rs. 2500/- will be charged at the time of registration for 8th Semester.

ADMISSION GUIDELINES M. TECH. PROGRAMME



Each of the five departments of NIFTEM offers uniquely designed Post Graduate Programme leading to two years regular M.Tech degree:

1. M. Tech. in Food Technology and Management (FTM)
2. M. Tech. in Food Process Engineering and Management (FPEM)
3. M. Tech. in Food Plant Operations and Management (FPOM)
4. M. Tech. in Food Safety and Quality Management (FSQM)
5. M. Tech. in Food Supply Chain Management (FSCM)

ELIGIBILITY

Four Years Bachelor's Degree or a Master's degree in relevant discipline with minimum 60% marks in aggregate. Additional programme wise requirement, are as below:

Programme	Minimum Qualification
M.Tech. (FTM)	B. E./B. Tech. in Food Science / Food Science & Technology/ Food Technology and Management / Food Technology / Food Process Engineering/ Food Engineering/ Dairy Engineering / Dairy Technology/ Agricultural & Food Engineering/ Dairy and Food Engineering OR M.Sc. Degree in Food Technology/ Food Science & Technology/ Food Science/ Dairy Technology/ Food & Nutrition from a recognized University/ Institute. OR in related allied field from a recognized University/ Institute. Deficiency courses would be offered to the applicants with above prescriber non-food degrees.
M.Tech. (FPEM)	B.E./ B.Tech degree in Food Science/ Food Science & Technology / Food Technology and Management/Food Technology/ Food Process Engineering/Food Engineering/Dairy Engineering / Dairy Technology/ Agricultural Process Engineering/ Agricultural & Food Engineering /Agricultural Engineering / Bio-Chemical Engineering/ Chemical Engineering or in related allied field from a recognized University/Institute. OR in related allied field from a recognized University/Institute. Deficiency courses would be offered to the applicants with above prescriber non-food degrees.
M.Tech. (FPOM)	B.E./ B.Tech degree in Food Science/ Food Science & Technology / Food Technology and Management/Food Technology/ Food Process Engineering/Food Engineering/Dairy Engineering / Dairy Technology/ Agricultural Process Engineering/Agricultural & Food Engineering /Agricultural Engineering / Mechanical Engineering from a recognized University/Institute. OR in related allied field from a recognized University/Institute. Deficiency courses would be offered to the applicants with above prescriber non-food degrees.

M.Tech. (FSQM)	B.E./B.Tech. degree in Food Science/ Food Science and Technology/Food Technology and Management/Food Technology/ Dairy Technology/ Dairy and Food Technology/ Agricultural and Food Engineering/ Bio-Chemical Engineering/Chemical Engineering OR M.Sc. degree in Food Technology / Food Science and Technology / Food Microbiology from a recognized University/ Institute. OR in related allied field from a recognized University/Institute. Applicants with M.Sc Degree may be asked to register for deficiency course(s) as per the curriculum
M.Tech. (FSCM)	B.E./B.Tech. degree in Food Science / Food Science and Technology/ Food Technology and Management / Food Technology/ Dairy & Food Technology/Dairy & Food Engineering/ Agricultural and Food Engineering/ Four years Bachelor's degree in Agriculture/Horticulture or Two years Master's degree in Agriculture with Agronomy/ Horticulture/ Vegetable/Fruit Sciences/ Post Harvest Technology OR M.Sc. in Post Harvest Technology OR M.Sc.in Food Science/Food Technology/ Food Science and Technology OR Master's degree in Agribusiness Management from recognized University/Institute OR in related allied field from a recognized University/Institute.

NUMBER OF SEATS

For Indian Nationals: 18 in each M. Tech. programme. Seat Matrix indicating reservation under different categories are as follows-

Category	GEN	OBC	SC	ST	Total
No. of Seats	9	5	3	1	18

Further, there would be three seats reserved under PWD quota (with minimum 40% disability) to meet 5% reservation which would be distributed horizontally depending upon the availability of candidates in order of ST, SC, OBC and GEN. PC of ST category will be taken as first choice and PWD of General Category will be given last choice as per roster.

Supernumerary Seats for Foreign Nationals: 3 in each M. Tech. programme (Including one seat reserved for students from South East Asian countries and wards of Indian workers in Gulf countries).

Due reservation and concessions would be given to Kashmiri migrants as per Government of India Norms provided they mention their category in application form

SELECTION PROCESS

The Admission to M.Tech programme will be based on valid GATE (Graduate Aptitude Test for Engineering) score and personal interview (30 marks). Merit list will be prepared based on valid GATE score multiplied by 0.07 (70% Weightage of GATE Score) and will be added to marks obtained in the personal interview. The merit list will be displayed on the NIFTEM website NIFTEM reserves the right to decide a cut off in GATE score. Candidates whose GATE score is more

than or equal to cutoff marks, will only be called for interview. After the admission of eligible GATE qualified candidates, the remaining seats, if any, will be filled by Non- GATE candidates (B.E./B.Tech/ M.Sc.). Non- GATE candidates would require to qualify the entrance exam (70 marks), conducted by NIFTEM at NIFTEM Campus Kundli, NIFTEM reserves the right to decide a cut off marks in entrance exam for non -GATE candidates. Candidates whose score is more than or equal to cutoff marks, will only be called for interview, The Non-GATE applicants common entrance exam shall not be conducted, if all seats have been filled by GATE candidates. In that case, the claim for refund of application fee shall not be entertained

PATTERN OF ENTRANCE TEST

The written test conducted for non-GATE candidates shall consist of seventy (70) multiple choice questions of one mark each, there shall be negative marking and for each wrong answer 0.25 marks will be deducted. The duration of the test will be one hour. The test shall consist of two parts.

Part-A shall contain twenty (20) questions to test the Mental Ability, English and General Knowledge. Part-B shall contain fifty (50) questions to test candidates' knowledge base in their eligibility areas. Due to varied nature of eligibility areas, Part-B shall consist of five sections and candidates may attempt any one of them. Broad description of each section under Part-B is given below;

Part I :	Food Science & Technology, Food Engineering, Dairy Technology, Foods and Nutrition
Part II :	Food Engineering, Agricultural Process Engineering, Bio Chemical Engineering, Chemical Engineering, Mechanical Engineering
Part III :	Food Business Management and Entrepreneurship
Part IV :	Food Science & Technology, Foods and Nutrition, Biotechnology, Microbiology, Biochemistry
Part V :	Agriculture, Environmental Science, Food Science & Technology.

SCHOLARSHIPS AND FINANCIAL SUPPORT

- Merit and merit cum means scholarships
- Fellowship worth Rs. 8000 per month to GATE qualified Indian nationals
- Assistance through earn while you learn programme

Fee Structure for two year (four semesters) M. Tech. Programmes of Niftem is given as under:

Particulars	1st Semester (Rs.)	2nd Semester and onwards (Rs.)
A) At the Time of Admission (One time)		
Institute prospectus & Enrolment Form	1,000	NIL
Admission Fee	4,200	NIL
Identity Card Fee	400	NIL
Library & Book Bank Fee	4,500	NIL
Alumni Fee	1,250	NIL
B) Development Funds		
Institute Development Fund	13,400	13,400
Innovation Fund	3,350	3,350
Scholarship Fund	3,350	3,350
Student Activity & Welfare Fund	3,350	3,350
Start up Fund	NIL	NIL
Hostel Development Fund	5,800	5,800
C) Tuition & Other Fee		
Tuition Fee	13,900	13,900
Lab Support Fee	7,200	7,200
Examination Fee	2,300	2,300
D) Security Deposit (One Time Refundable)		
Institute Security Deposit	1,000	NIL
Library Security Deposit	1,000	NIL
Mess Security Deposit	5,000	NIL
E) Hostel & Other amenities		
Hostel rent (Seat wise)	9,000	9,000
Medical Fees	2,100	2,100
Electricity, IT and water supply	3,300	3,300
Total	85,400	67,050
Total Course Fee for the Programme for 2018-22 batch		2,89,050/-

*In addition to above the mess charges @ Rs. 15000/- per semester will be charged at the time of registration for each semester and Convoation fees of Rs. 2500/- will be charged at the time of registration for 3rd Semester.

Chapter 9

MBA

FOR MBA PROGRAMME

NIFTEM's innovative MBA Programme is a two-year, full-time degree program that is offered with dual specializations-(I) Compulsory: Food & Agri-Business Management, (II) Optional: One of Marketing/ Finance/ International Business to fulfill the industry demands. The program is designed to deliver world-class graduate business education to develop professional managers, imaginative leaders and entrepreneurs with outstanding abilities, motivation, creativity and professionalism, who create value for their organizations and communities.

ELIGIBILITY CRITERIA

The eligibility criterion for admission to MBA Program is Bachelor's degree, or equivalent, in relevant discipline, with minimum 50% aggregate marks (45% in the case of SC/ST), or equivalent CGPA.

SEATS

Currently there are 40 seats available in the program. The distribution of seats, as per GoI reservation norms, is as follows:

General	OBC (NC)	SC	ST
20	11	6	3

SELECTION PROCEDURE

The selection procedure to MBA Programme is based on last two years' score of CAT/MAT and an Internal-Test for Non-CAT/MAT category applicants. The final selection of shortlisted candidates will be made on the basis of GD/PI, past academic performance, and work experience.

PATTERN OF ENTRANCE TEST

The written test of 90 minutes conducted for Non-CAT/MAT category applicants shall consist of fifty (50) objective type questions of 2 marks each. There is no negative marking for wrong answer(s). The question paper would consist of three sections as given below:

Section	No. of Question	Marks
Section-1: Logical Reasoning/ Data Interpretation	15	30
Section-2: Quantitative Analysis	15	30
Section-3: Verbal Ability / Reading Comprehension	20	40
Total	50	100



Annexure -V
MBA- FBA Fee Structure for 1st & 2nd Year (2018-20)

S.No.	Details of Fee	Year-I		Year-II	
		Semester-1	Semester-2	Semester-3	Semester-4
1	At the time of Admission	(in Rs.)	(in Rs.)	(in Rs.)	(in Rs.)
1.1	Institute Handbook & Enrolment Form	1500	NIL	NIL	NIL
1.2	Admission Fee	4600	NIL	NIL	NIL
1.3	Identity Fee	500	NIL	NIL	NIL
1.4	Alumni Fee	5150	NIL	NIL	NIL
	Development Funds				
2	Institute Development Funds	31800	26600	26600	26600
2.1	Innovative Fund	5250	4200	4200	4200
2.2	Hostel Development Funds	10600	8000	8000	8000
2.03	Student Activity & Welfare Fund	6400	5300	5300	5300
2.4	Tuition Fee & Other Academic Fee				
3	Tuition Fee	106100	106100	106100	106100
3.1	Lab Support Fee (communication lab/ finance lab)	3200	3200	3200	3200
3.2	Examination Fee	10600	10600	10600	10600
3.3	Book Bank/Case (to provide to students)	16000	16000	16000	16000
3.4	Educational Tour. Outdoor Camps	10600	10600	10600	10600
3.5	International Immersion	NIL	NIL	106000	NIL
3.6	One time Security Fee				
4	Institute Security Deposits	5000	NIL	NIL	NIL
4.1	Library Security Deposits	5000	NIL	NIL	NIL
4.2	Mess Security Deposits	5000	NIL	NIL	NIL
4.3	Hostel & Other Amenities				
5	Hostel Fee (twin sharing basis)	31900	31900	31900	31900
5.1	Medical Fee	2200	2200	2200	2200
5.2	Electricity, IT and water supply	5300	5300	5300	5300
	Semester-wise total fee payable	266700	230000	336000	230000
	Total Program Fee Payable	10,65,200/-			
	In addition to above, the mess charges @ Rs.15000/- per semester will be charged at the time of registration for each semester and Concoction fee of Rs. 2500/- will be charged at the time of registration for 4th Semester.				

Chapter 10

ADMISSION GUIDELINES
Ph.D. PROGRAMME



FOR Ph.D. PROGRAMMES (Full time)

NIFTEM offers Ph.D. programmes in the following departments and areas.

a. Agriculture and Environmental Sciences Postharvest Horticulture; Environmental sciences

b. Basic and Applied Sciences Analytical Chemistry and Instrumentation, New analytical method development and Validation for determination of toxicants and contaminants in food products, Food Quality and Safety, Food Quality Surveys for studies on Risk Assessment, Studies for development of standards for Quality and Safety Studies of Herbal and Ayurvedic products, Food Fortification, Applications of Gamma Irradiation, Nutraceuticals and Functional Foods, Food Microbiology and Biotechnology, Mathematical Biology, Contamination determination and Packaging material, Food Safety and Quality, Development of Prebiotics based new product, Food Packaging, Nano-composites and Biosensors, Stochastic Modeling, Big Data in Food Safety and Quality, Anti Biofouling Nano-comounds and its applications.

c. Food Business Management and Entrepreneurship Development Marketing CSR, Statistics, Quantitative Techniques, Operations Research, Management Science, Banking, Financial Services, Entrepreneurship, Supply Chain Management, Agribusiness Management, General Management, Sustainability, IPR, Banking, Entrepreneurship, General Management, Capital Marketing, Banking & Finance, General Management, Entrepreneurship Development, General Management, Organization Behaviour, Operations Management, Food Supply Chain Management, Business Sustainability, Food Marketing, Rural Marketing, Food Policy, Food Services Marketing.

d. Food Engineering Application of 3D printing in Food Process Industry

e. Food Science and Technology Food Properties. New Product Development, Food Safety; Food Safety & Toxicology, Risk Assessment, Antioxidants & NPD from Seaweeds, Nanoparticles & their safety in foods/packaging material; Fruits and vegetable processing, Bakery, traditional foods; Characterization of Indian Savory Items & Functional Food

PhD ELIGIBILITY CRITERIA 2018-19:

M.Tech/ Master Degree in a relevant discipline with at least 60% marks at Masters. Preference will be given to NET qualified candidates. Candidates can apply ONLY IN ONE DEPARTMENT.

Sl No.	Dept	Broad Areas
1	AES	M. Tech in Food Science /Food Technology and Management/ Food Safety and Quality Management/ Food Supply Chain Management or M. Sc. Degree in Food Science & Technology/ Life Science/ Agriculture/ Environmental and Allied area from recognised Institute/University.
2	FST	M. Tech In Food Science/ Food Technology & Management / Food Safety And Quality Management / Food Supply Chain Management / Food Technology/Food Process Engineering/ Food Process Engineering And Management / Food Engineering/ Dairy Engineering/ Dairy Technology/Agriculture Process Engineering/Agriculture & Food Engineering/ Food Biotech/Food And Fermentation From A Recognized/ Institute. In addition m.sc in food technology/ Food Science & Technology/Food Science & Nutrition/ Meat Science/ Meat Technology/ Or M.Sc In Animal Product Technology/ Live Stock

Sl No.	Dept	Broad Areas
		Product Technology Are Also Eligible For Admission. Such candidate may be required to go deficiency courses as per .
3	FE	M. Tech In Food Science/ Food Technology & Management/Food Process Engineering And Management/ Food Technology/ Food Process Engineering/ Food Engineering / Dairy Engineering / Dairy Technology/ Agriculture And Food Engineering/ Mechanical Engineering/ Automation & Robotics Engineering/ Chemical Engineering/ Biochemical Engineering.
4	FBM & ED*	M. Tech In Food Plant Operation Management/ MBA(two years program) Or Equivalent Form A Recognized University/ Institute, PGDMA(two year program) from a recognized institute duly approved by Association Of Indian University As Equivalent To MBA.
5	BAS*	M.TECH IN FOOD science/food technology and management/ food technology/dairy and food technology/ Process Engineering and management/ food safety and quality management/ food supply chain management from a recognized university/institute. In addition master degree in food science and technology/ biochemistry/ microbiology/ chemistry/ biotechnology/ life science/ agriculture science/ environmental science/ mathematics/ statics/ operational research/ physics / material science/ from a recognized university / institute.

Note: Applicants are advised to see eligibility requirements above before applying for PhD. Candidates appearing for final year examinations of minimum educational qualification prescribed above in 2018 may also apply. Such candidates will be admitted provisionally. They shall submit their proof of passing the qualifying examination by 31.8.2018, failing which provisional admission will be cancelled.

Number of seats : For Indian Nationals:

Department	Total	Category			
		GEN	OBC	SC	ST
Food Science and Technology	5	3	2	0	0
Food Engineering	2	1	0	1	0
Food Business Management and Entrepreneurship	5	3	1	0	1
Basic and Applied Sciences	7	3	3	1	0
Agriculture and Environment Sciences	3	1	0	1	1
Total	22	11	6	3	2

Reservation criteria would be followed as per central government norms

For Foreign Nationals: 4 in total (Including one student from south east countries & Indian worker in Gulf countries)

SELECTION PROCESS

Candidates who have qualified UGC-NET /UGC-CSIR NET /ICAR-NET /SLET shall be exempted from Research Entrance Test (RET) in line with clause 5.1 of UGC (Minimum Standards and Procedure for Awards of M. Phil and PhD Degrees) Regulations 2016.

RET to be organized by NIFTEM at NIFTEM campus, Kundli. As per entrance paper choice, the syllabus of the Entrance Test shall consist of 50% of research methodology and 50% shall be subject specific. There shall be negative marking and for each wrong answer 0.25 marks will be deducted. Qualifying marks is 50%. Syllabus for the entrance exam will be uploaded later in NIFTEM website.

Both NET qualified and RET qualified candidates will appear for interview /presentation where the candidates would be required to discuss their research areas/interest before the interview panel. Separate department-wise (subject specific) merit lists to be prepared based on the interview performance only.

Sponsored (full-time) candidates seeking admission to PhD programme on the basis of study leave, must submit a "Sponsorship Certificate" on a proper letterhead from the appropriate authority in the organization clearly stating the following: -for the period of his/her studies in the programme, the candidate would be treated as on duty with usual salary and allowances, and -that he/she will be fully relieved and granted study leave for a minimum period of 3 years. NIFTEM will not provide any fellowship to the sponsored candidates.

Admit cards for Research Entrance Test (RET) may be downloaded from NIFTEM website. No separate admit card will be posted in this regard. Updates can be seen from the website time to time. For Foreign Nationals admission is based directly upon the merit and the applicants do not have to appear in the Entrance Test or Interview. The eligibility for Foreign Nationals 60% aggregate marks in the qualifying examination, for detailed guideline, applicants applicants may refer relevant section for foreign students in this brochure.

Fee Structure for three years (six semesters) Ph.D. Programme of NIFTEM is given as under

Particulars	1st Semester (Rs.)	2nd Semester and onwards (Rs.)
A) At the Time of Admission (One time)		
Institute prospectus & Enrolment Form	1,000	NIL
Admission Fee	3,500	NIL
Identity Card Fee	400	NIL
Library & Book Bank Fee	4,500	NIL
Alumni Fee	1,250	NIL

Particulars	1st Semester (Rs.)	2nd Semester and onwards (Rs.)
B) Development Funds		
Institute Development Fund	10,400	10,400
Innovation Fund	2,600	2,600
Scholarship Fund	2,600	2,600
Student Activity & Welfare Fund	2,600	2,600
Start up Fund	NIL	NIL
Hostel Development Fund	4,600	4,600
C) Tuition & Other Fee		
Tuition Fee	4,500	4,500
Lab Support Fee	8,000	8,000
Examination Fee / Program Report Fee	2,700	2,700
Comprehensive Viva-Voce & Thesis evaluation (at the time of thesis submission)	21200*	
D) Security Deposit (One Time Refundable)		
Institute Security Deposit	1,000	NIL
Library Security Deposit	1,000	NIL
Mess Security Deposit	5,000	NIL
E) Hostel & Other amenities		
Hostel rent (Seat wise)	8,600	8,600
Medical Fees	2,100	2,100
Electricity, IT and water supply	3,300	3,300
Total	69,650.00	52,000.00
*Plus payment of Rs. 21,200 as Comprehensive Viva-Voce & thesis Evaluation (at the time of thesis submission).		
Total Course Fee for the Programme for 2018-22 batch		353350/-*

*In addition to above the mess charges @ Rs. 15000/- per semester will be charged at the time of registration for each semester and Convoation fees of Rs. 2500/- will be charged at the time of registration for 6th Semester.

SCHOLARSHIPS AND FINANCIAL SUPPORT

The NET qualified candidates (without JRF) selected through the above process shall be allowed to enroll for Ph.D. degree program at NIFTEM and it shall provide a NIFTEM Ph.D. Fellowship (Rs. 16,000/-, Rs. 18,000/- and Rs. 20,000/- per month in the first, second and third year, respectively). Those without NET shall be provided with NIFTEM Ph.D. scholarship (Rs. 15,000/-, Rs. 16,000/- and Rs. 17,000/- per month in the first, second and third year, respectively).

REFUND PROCESS

Candidates willing to withdraw admission may request for admission cancellation and refund of fees through an application (format to be uploaded in NIFTEM official website). The scanned application is accepted through email from the registered mail id to admission cell. The refund of fees shall be made in due course with a minimum time period of 15 days from the date of receipt of application. Refund shall be made after deduction of due cancellation charges as below:

S.No.	Timeline	Refund entitlement
	Request received up to the date of commencement of session	Total fee (tuition, development and hostel fee, etc.) after deduction of Rs 1000/ as processing fee
	Request received after the date of commencement of session	No refund of the fee deposited except the refundable security amount

Chapter 11

ADMISSION GUIDELINES For INTERNATIONAL STUDENTS



INTRODUCTION

These rules are framed to formulate the procedure to be followed in NIFTEM for eligibility and admission of international students to various courses. Wherever these rules are found insufficient, the university will adopt the rules and regulations framed in this regard by University Grants Commission (UGC) and notified in its website www.ugc.ac.in.

GENERAL INSTRUCTIONS

- a) Admission cell, NIFTEM deals with admission and guidance of international students. All letters relating to international students should be addressed to The Head, Admission Cell, NIFTEM, Plot-97, Sector-56, HSIIDC Industrial Estate, Kundli, Sonipat District, Haryana- 131 028, India.
- b) A foreign student willing to pursue course of studies at NIFTEM, Kundli should submit their curriculum vitae clearly indicating academic achievements along with attested copies of academic credentials to the Head, Admission Cell, NIFTEM by post or by email to admission@niftem.ac.in/admission.niftem@gmail.com.
- c) Number of seats will normally be-
 - B Tech (FTM) programme: 27 (Including 9 students from South East Asian countries & Indian worker in Gulf countries).
 - M. Tech. Programme: 3 in each Programme (Including 1 student in each Programme from South East Asian countries & Indian workers in Gulf countries).
 - Ph.D. Programme: 4 in total (Including 1 student from South East Asian countries & wards of Indian workers in Gulf countries).

INTERNATIONAL STUDENTS

Under these guidelines, International Students will include the following:

- **Foreign Students:** Candidates holding citizenship of foreign countries.
- **Persons of Indian Origin (PIO):** A person who or whose any of ancestors was an Indian national and who is presently holding another country's citizenship/ nationality i.e. he /she is holding foreign passport.
- **Non Resident Indians (NRI):** An Indian citizen who is residing outside India and holds an Indian Passport. Only those Non-Resident Indian students who have studied and passed the qualifying examinations from schools or colleges in foreign countries will be included as international students. This will include the students studying in the school or colleges situated in foreign countries even if affiliated to the Boards of Secondary Education or Universities located in India, but will not include students studying in those schools or colleges (situated in India) and affiliated to the Boards of Secondary Examinations from Boards or Universities located in foreign countries as external students and dependants of NRI studying in India will not be included as international students.

Note: Entry level status of international students on entry to the country will be maintained.

ADMISSION PROCEDURE

Foreign Nationals can seek admission to various Degree Programmes under the following categories:

i) Direct Applicants (Full Time Programme)

The Foreign students, who wish to join under Self-financed category, are required to submit their application to the Head, Admission Cell, NIFTEM. The institute's decision after scrutinizing the applications will be communicated to the respective student/Embassy (with a copy to the student concerned). However, in case of students from restricted countries i.e. Pakistan, Afghanistan, China, Bangladesh & Sri Lanka, the application MUST be forwarded through their respective Embassy.

ii) ICCR Cultural Exchange Fellowship Programmes (Govt. of India)

Candidates desirous of admission under this Fellowship Programme are required to apply through the Indian High Commission/Embassy as the case may be, in their respective Countries. They will send the application to ICCR, Government of India and then ICCR will forward the application/s to our Institute for consideration. In case the applicant is found suitable for admission, admission offer letter will be sent to him/her through Indian Council for Cultural Relations (ICCR), New Delhi. Candidates are not eligible for getting any financial assistance from the Institute.

Candidates may visit ICCR website, <http://www.iccrindia.net/students.html>, for more information.

Foreign Nationals seeking admission in any one of the aforesaid categories will have to satisfy the minimum eligibility criteria for admission to the programmes as prescribed by the Institute.

ELIGIBILITY/MINIMUM QUALIFICATIONS FOR APPLYING

For Undergraduate Student:

For undergraduate study, the following minimum eligibility/qualifications should be noted.

- Subject combinations required in the 10+2 or other equivalent qualifying examinations (*refer equivalence clause below*) shall be as under: Physics, Mathematics and one of the subjects from Chemistry, Bio-technology, Computer Science, and Biology with 50% marks in aggregate of all subject subjects.
- The applicants Date of Birth (DOB) must fall on or after 1st October, 1994
- The institution from which the applicant obtained his/her high school certificate must be accredited by the appropriate authority of his/her country.
- Since the medium of instruction at NIFTEM is English, applicants who have obtained a valid score IELTS or TOEFL score, will get preference and those without a valid IELTS or TOEFL score, shall have to pass NIFTEM English Proficiency Test (NEPT) within one week of joining to the course or else the admission shall be deemed cancelled.
- A valid Scholastic Assessment Test (SAT) score is not mandatory for admission to NIFTEM. However, students with a valid SAT score/grade will get preference.
- Application through ICCR Cultural Exchange Fellowship Programmes will be given preference.

FEES

For international students, both undergraduate and postgraduate, fees are US\$ 5,000 per semester. Mess fees will be extra as per Indian nationals.

DOCUMENTS REQUIRED FOR ADMISSION OF INTERNATIONAL STUDENTS

- a) **VISA:** All the international students will require a '**Student VISA**' endorsed to this institution for joining full time courses. No other endorsement is acceptable. Students wishing to join a research program will require a '**Research VISA**' endorsed to this institution. The visa should be valid for the prescribed duration of the course.

A visa is not required for NRI students. Students who are doing full time courses, in some other institutions, do not require a separate visa for joining 'Part Time courses' provided that their current visa is valid for the entire duration of the course.

- b) **No Objection Certificate:**

Students no longer require a No Objection Certificate, for joining professional courses. (This has been withdrawn by the Government of India vide letter No. F.No.33-17/2002-U.4 dated 20th August 2004.)

All International Students wishing to undertake any research work or join a PhD program will have to obtain prior security clearance from the Ministry of Home Affairs and the approval of Department of Secondary & Higher Education, Ministry of Human Resource Development, Government of India and this must be on the research visa endorsed to this institute.

EQUIVALENCE CERTIFICATE FOR ELIGIBILITY QUALIFICATIONS

The qualifications required for eligibility for admission to different Courses can be checked in detail from the prospectus. Only those Students who have qualified from foreign universities or Boards of Higher Education recognized as equivalent by the 'Association of Indian Universities' (AIU) are eligible for admission. When required, a reference will be made to AIU to check the equivalence. In case the University/Board is not included in the list, the candidate has to obtain and submit a certificate to this effect from AIU by paying the requisite fee.

Submission of Equivalence Certificate from AIU is mandatory for foreign nationals. For obtaining Equivalence Certificate the following AIU address may be contacted.

AIU HOUSE

16, Comrade Indrajit Gupta Marg,

New Delhi 110002, India.

Phones: (91) -11-23230059,

(91)-11-23232429,

(91)-11-23232305

Fax: (91)-11-23232131

E mail: info@aiuweb.org; aiu@del2.vsnl.net.in

Website: <http://www.aiuweb.org>

STEPWISE PROCEDURE FOR ADMISSION OF INTERNATIONAL STUDENTS

The procedure for admission is given below:

Step 1:

- Interested International students must read the admission brochure carefully before applying to NIFTEM. Admission brochure may be obtained online after 15th May, 2018 from NIFTEM website www.niftem.ac.in.
- International students should submit their curriculum vitae clearly indicating their academic achievements alongwithself-signed copies of the following documents to the Head, Admission Cell, NIFTEM, Plot No. 97, Sector 56, HSIIDC Industrial Estate, Kundli - 131 028, District: Sonapat, Haryana, India by post or by email to admission2018@niftem.ac.in.
- For submitting through email, all documents must be scanned in PDF format and named as indicated by bold letter in the document list belowbeforeattachment. Application either by post or by email must reach Admission Cell on or before 30th June, 2018
 - Scanned copy of the **Curriculum Vitae** after putting signature of both applicant and parent/legal guardian in each page. (PDF format)
 - Proof of **date of birth** (DOB).(PDF format)
 - **Certificate** and **Mark-sheet** of qualifying examination. (Mark?Sheet/Degrees in a language other than English should be got translated into English) (PDF format)
 - **Equivalency certificate** issued by AIU.(PDF format)
 - **Copy of passport** for foreign citizens, wherever applicable.(PDF format)
 - **Dual citizenship card** for PIO, wherever applicable.(PDF format)
 - **NRI status certificate**, wherever applicable.(PDF format)
 - A **brief essay** of 300 words (approximately) stating the reason/s why she/he seeks admission to NIFTEM and the purpose of study.(PDF format)
 - Softcopies of passport size **photograph**. (JPG format)
- Two letters of Recommendation to be enclosed in sealed covers certifying candidate's merit and character, must reach Admission Cell, NIFTEM before the candidate reports for final admission.
- This should be done well in time, so that the student is able to obtain the VISA and NOC before the due date of admission.

Step 2:

The Admission Cell after checking the eligibility criteria and other relevant information will inform the applicant by email and/or web notification by 1st week of July, 2018. Now, the applicant will request for 'Provisional Admission Offer Letter' along with online (RTGS/NIFT) payment of non refundable advance amount, worth 10% of the total annual fees, i.e. US\$ 1000. This should be done well in time, so that the student is able to obtain the VISA and NOC before the due date of final admission i.e., August 1, 2018 for all programmes

Step 3:

Submit the 'Provisional Admission Offer Letter' to the Indian Embassy of the respective country for obtaining the 'VISA'.

Step 4:

Report at Admission Cell, NIFTEM. Submit all above mentioned documents (in original along with the self-attested photocopies) and get them verified by the Head, Admission Cell. The original certificates will be returned to the students immediately after making an endorsement to this effect.

Step 5:

Students are required to undergo the medical fitness examination (at NIFTEM) and get the medical fitness certificate. As per government rules all international students entering India on 'Student VISA' have to be tested for HIV and will not be given admission, if found to be positive. They are also required to produce HIV test report to the Doctor. All international students will be required to pay medical fees of US\$ 50, which includes the medical insurance cover for the first year. For subsequent years the medical insurance fees will be same as for other Indian students and is included in other fees.

Step 6:

Admission of International/PIO/NRI students will be confirmed after verification of original certificates, medical fitness test and payment of required fees. Even after the admission, at any stage if it is noted that the qualifying Degree/ Certificate is not recognized by AIU, the admission of the candidate will be cancelled. Withdrawal of admissions/ refund of fees cases will be dealt as per the guidelines of NIFTEM in this regard.

Step 7:

Within a week of arrival in India, students are required to register their names with the police in the 'Foreigner Regional Registration Office (FRRO) and submit a proof of such registration to the Admission Cell.

SCHOLARSHIP

Foreign Students admitted under direct applicant category (refer description at Admission Procedure under this section) are eligible to get 'merit' scholarship/'earn-while-learn' assistantship as per the prevailing norms.

EXAMINATION AND AWARD OF DEGREES

The procedure for examination, payment of examination fees, issue of marks sheet, issue of passing certificates and award of degrees will be same as for the Indian students doing same courses.

GENERAL RULES AND REGULATIONS FOR STUDENTS AT NIFTEM

DISCIPLINE

The International Students will abide by all the rules of the University and code of conduct as applicable to Indian students undergoing the same course. Anti social and anti- national activities, misbehaviour, violence and unethical activities involving international students will be dealt in accordance with state and central laws that are in force. NIFTEM will not take any responsibility for any criminal or non-criminal acts committed inside or outside the campus by the international students.

RAGGING

NIFTEM follows a zero tolerance policy with regard to any form ragging in the campus. We strictly comply with the Supreme Court of India order -Curbing Ragging in Educational Institutions. Students involved in ragging will be immediately suspended, enquiry conducted to its logical conclusion, punishment meted out after the approval of the recommendation of the disciplinary committee by the competent authority.

GENERAL NOTES

- Candidates admitted to any course in this University shall not be eligible to pursue simultaneously any other full-time course in this or in any other University.
- If the applicant has passed the qualifying Exam where grades are awarded and where the grade sheet does not mention the equivalent percentage of marks from grade points, the candidate should submit such a certificate of conversion from the concerned Institution mentioning either the converted percentage, or the formula for the actual conversion of grade point average to percentage of marks.
- If the applicant has passed the qualifying Exam where grades are awarded and where the Grade sheet itself mentions the equivalent percentage of marks from the grade points, or the formula for such conversion, the candidate should get both sides of the Degree/ Grade Sheet photocopied showing the equivalent percentage of marks / conversion formula and enclose with the Application Form.
- "Aggregate percentage of marks" does not include grace marks awarded to candidate.

WORD OF CAUTION

- Admission of various programmes will be subject to verification of facts as in the original certificates/ documents of the candidates. In case any discrepancy is noticed, even at a later point of time after, the University reserves all rights to cancel the admission and such a decision shall be final and binding on the candidate(s).
- It is the responsibility of the candidates to ascertain whether they possess requisite qualification for admission.
- If the candidate(s) furnish the mark sheets of the qualifying examination only in GRADES, the minimum marks pertaining to the grade obtained in the course will be taken into consideration while determining the marks.
- The admission offered to a candidate who has been provisionally admitted to a program me will stand cancelled if he/she does not submit the relevant documents in original pertaining to admission (such as Marks Sheet, Date of Birth Certificate, Letter of Recommendation etc.) in the Academic Cell before the stipulated date.

NOTE:

The above rules will be applicable for admissions. In case, there are any differences on the interpretation of rules then the opinion of the authorities of University will be final. The fees are liable to revision and students will have to pay the revised fees as and when applicable. On the points not specifically covered, the decision of the Institution authorities will be final.

IMPORTANT DATES

For important dates, kindly refer to our website : www.niftem.ac.in

Annexure

**FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES
APPLYING FOR APPOINTMENT TO POSTS UNDER THE GOVERNMENT OF INDIA**

This is to certify that Shri/Smt./Kumari.....son/daughter ofof village/town.....in District/Division.....in the State/Union Territory.....belongs to the.....community which is recognised as a backward class under the Government of India, Ministry of Social Justice and Empowerment's Resolution No.dated.....*. Shri/Smt./Kumari.....and/or his/her family ordinarily reside(s) in theDistrict/Division of theState/Union Territory. This is also to certify that he/she does not belong to the persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93 - Estt. (SCT) dated 8.9.1993**.

District Magistrate
Deputy Commissioner etc.

Dated:

Seal

.....
*- The authority issuing the certificate may have to mention the details of Resolution of Government of India, in which the caste of the candidate is mentioned as OBC.

** - As amended from time to time.

Note:- The term "Ordinarily" used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

ADMINISTRATIVE OFFICERS

Dr Chindi Vasudevappa Vice Chancellor Contact No: +91-130-2281001, +91-130-22819749	
Dr. T. N. Giri, Registrar, Contact No: +91-130-2281072 Email: registrar@niftem.ac.in	Dr. Manjeet Aggarwal Dean(Research) Contact No: +91-130-2281145 Email:manjeet.deanresearch@gmail.com
Dr. Ashutosh Upadhyay, Dean (Academics) Contact No: +91-130-2281037 Email: deanacad@niftem.ac.in	Dr. Vijendra Mishra, Dean (Student Welfare) Contact No: +91-130-2281272 Email: vijendra_mishra@rediffmail.com
Dr Vikas Saxena Controller of Examination (I/c) Contact No: +91-130-2281115 Email: coe.niftemgov@gmail.com	Shri. Ashok K. Chauhan, Deputy Controller F&A, Contact No: +91-130-2281047 Email: dcfa.niftem@gmail.com
Dr Sunil Pareek Director, Internal Quality Assurance Cell (IQAC) Contact No: 91-130-2281201 E-mail: sunilpareek.niftem@gmail.com	

DEPARTMENT OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

Dr. Maheshwar Prasad Sahu
Professor and Head of Department

Area of Interest/Specialization: Stress Agriculture and Food Security, Soil Fertility and Plant Nutrition

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Email: sahu53.niftem@gmail.com

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<p>Dr. Tripti Agarwal Assistant Professor Area of Interest/Specialization: Organic and Inorganic Contaminants in Food, Environmental Sustainability, Climate Change Mitigation Contact No.: +91-130-2281236 Email: tripti.niftem@gmail.com</p>	

DEPARTMENT OF BASIC AND APPLIED SCIENCES

Prof. Manjeet Aggarwal
Professor and Head of Department

Area of Interest: Studies for setting up of MRL values for various toxicants in food products, Analytical instrumentation & New Analytical method development & validation, Shelf life studies, Risk Assessment studies for various toxicants in food products, Packaging compatibility studies, Food fortification, Structure-Activity correlation, Bio-availability & ADME studies, Nutraceuticals & Functional food, Quality standardization, Harmonization of standards, Calibration for Quality Assurance, Food Quality Systems, Food Regulation & Policies. **Contact No.:** +91-130-2281145, Email: aggarwal.manjeet@gmail.com

<p>Dr. Vijendra Mishra Associate Professor Area of Interest/Specialization: Food Safety Probiotics, Dairy Microbiology Contact No.: +91-130-2281272 Email : vijendramishra.niftem@gmail.com</p>	<p>Dr. Kalyan Das Associate Professor Area of Interest/Specialization: Mathematical Modelling n Biology, Ecology and Epidemiology Contact No.: +91-130-2281256 Email: kalyandas.niftem@gmail.com</p>
<p>Dr. Neela Emanuel, Associate Professor Area of Interest/Specialization: Method Development for the Analysis of Food Samples, Column Development both HPLC & GC for the Analysis of Food Samples, Food Quality Safety Contact No.: +91-130-2281036 Email: nemanuel99@hotmail.com</p>	<p>Dr. P. Murali Krishna Assistant Professor Area of Interest/Specialization: Ferroelectric, Piezoelectric Materials, Nanocomposites, Biosensors Contact No.: +91-130-2281243 Email: mkprayaga.niftem@gmail.com</p>
<p>Dr. Bhaswati Bhattacharya Assistant Professor Area of Interest/Specialization: Active Packaging, Biosensors Contact No.: +91-130-2281246 Email: bhaswati.niftem@gmail.com</p>	<p>Dr. Chakkaravarthi Saravanan Assistant Professor Area of Interest/Specialization: Lipid Oxidation, Protein Structure, Bioinformatics, Biochemistry Contact No.: +91-130-2281220 Email: chakkaravarthiniftem@gmail.com</p>
<p>Er. Kumar Rahul Assistant Professor Area of Interest/Specialization: Software Engineering, Graph Theory, E-Commerce Contact No: +91-130-2281237 Email : rahulmese@gmail.com</p>	<p>Dr. Vijay Kumar Associate Professor Area of Interest/Specialization: Statistics Operational Research- Queuing Theory Contact No.: +91-130-2281250 Email: vijay.niftem@gmail.com</p>
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DEPARTMENT OF FOOD BUSINESS MANAGEMENT AND & ENTREPRENEURSHIP DEVELOPMENT

Dr Sanjay Bhayana

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DEPARTMENT OF FOOD ENGINEERING

Dr. Prabhat Kumar Nema

Associate Professor and Head of Department

Area of Interest/Specialization:

Fruits and Vegetables Processing, High Pressure Processing, Food Drying

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Email : pknema@yahoo.co.in

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<p>Er. Vijay Singh Sharanagat Assistant Professor Area of Interest/Specialization: Food Process Equipment Design, Food Product Development, Drying and Dehydration Contact No.: +91-130-2281228 Email: vijaysinghs42@gmail.com</p>	<p>Er. S. Thangalakshmi Assistant Professor Area of Interest/Specialization: Image Processing, Sensor Applications in Food Industry, Microprocessor Based Systems Contact No.: +91-130-2281240 Email: thangalakshmi_s@rediffmail.com thangalakshmi.niftem@gmail.com</p>
<p>Er. Vinkel Kumar Arora Assistant Professor Area of Interest/Specialization: Design, CAD(Computer Aided Design), CAE (Computer Aided Engineering) Contact No.: +91-130-2281258 Email: vinkelarora@gmail.com</p>	<p>Er. Arun Sharma Assistant Professor Area of Interest/Specialization: Electronics Engineering Contact No: + 91-130-2281239 Email: arunsharma1712@gmail.com</p>
<p>Er. Nitin Kumar Assistant Professor Area of Interest/Specialization: Traditional foods Detection of pathogen in food, Food plant and equipment design Contact No.: +91-130-2281267 Email: nitinkumar.iit@gmail.com</p>	<p>Er. Anand Kishore Assistant Professor Area of Interest/Specialization: Bakery Science and Technology, Drying Technology, Food Engineering Contact No: +91-7056724488 Email: anand.iitkgp14@gmail.com</p>
<p>Dr. Barjinder Pal Kaur Assistant Professor Area of Interest/Specialization: Novel food processing, Drying Technology, Food Engineering Contact No.: + 91-130-2281103</p>	

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

Dr. Ashutosh Upadhyay

Professor and Head of Department

Area of Interest/Specialization: New Product Development, By-product utilization, Food Safety and Traceability

Contact No.: +91-130-2281040, **Email:** fst@niftem.ac.in, ashutosh@niftem.ac.in

Annexure 1

OBC Undertaking

Declaration / undertaking - for OBC Candidates only

I, _____ son/daughter of Shri _____ resident of village/town/city _____ district _____ State hereby declare that I belong to the _____ community which is recognised as a backward class by the Government of India for the purpose of reservation in services as per orders contained in Department of Personnel and Training Office Memorandum No.36012/22/93- Estt. (SCT), dated 8/9/1993. It is also declared that I do not belong to persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the above referred Office Memorandum, dated 8/9/1993, which is modified vide Department of Personnel and Training Office Memorandum No.36033/3/2004 Estt.(Res.) dated 9/3/2004. I also declare that the condition of status/annual income for creamy layer of my parents/guardian is within prescribed limits as on financial year ending on March 31, 2018.

Place:

Signature of the Candidate

Date:

Declaration/undertaking not signed by Candidate will be rejected

<p>Dr. Komal Chauhan Assistant Professor Area of Interest/Specialization: Food Science and Nutrition Contact No.: + 91-130-2281218 Email : komal.niftem@gmail.com</p>	<p>Dr. Rakhi Singh Assistant Professor Area of Interest/Specialization: Development of Functional Food, Cereal Processing Contact No: + 91-130-2281268 Email: rakhi117@gmail.com</p>
<p>Dr. Prarabdh C. Badgujar Assistant Professor Area of Interest/Specialization: Food Toxicology & Safety, Nutraceuticals, Food additives Contact No.: +91-130-2281249 Email: prarabdh.niftem@gmail.com</p>	<p>Dr. Anurag Singh Assistant Professor Area of Interest/Specialization: Fruits and Vegetables Processing, Bio-pesticides Development of Functional Foods, Bakery Technology Contact No: + 91-130-2281255 Email: anurag.niftem@gmail.com</p>
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**FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES APPLYING FOR
ADMISSION TO POSTS / ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs), UNDER
THE GOVERNMENT OF INDIA**

"The certificate MUST have been issued on or after 1st April 2018."

This is to certify that Shri / Smt. / Kum*. _____ Son / Daughter* of Shri / Smt.*
_____ of Village/Town* _____ District/Division*
_____ in the _____ State belongs to the

_____ Community which is recognized as a backward class under:

- (i) Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186 dated 13/09/93.
- (ii) Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
- (iii) Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated 25/05/95.
- (iv) Resolution No. 12011/96/94-BCC dated 9/03/96.
- (v) Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
- (vi) Resolution No. 12011/13/97-BCC dated 03/12/97.
- (vii) Resolution No. 12011/99/94-BCC dated 11/12/97.
- (viii) Resolution No. 12011/68/98-BCC dated 27/10/99.
- (ix) Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
- (x) Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated 04/04/2000.
- (xi) Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
- (xii) Resolution No. 12015/9/2000-BCC dated 06/09/2001.
- (xiii) Resolution No. 12011/1/2001-BCC dated 19/06/2003.
- (xiv) Resolution No. 12011/4/2002-BCC dated 13/01/2004.
- (xv) Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.

Shri / Smt. / Kum. _____ and / or his family ordinarily reside(s) in the
_____ District / Division of _____ State. This is also to certify that he/she does not belong to the
persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No.
36012/22/93-Estt.(SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004 and further modified vide OM No.
36033/3/2004-Estt. (Res.) dated 14/10/2008 or the latest notification of the Government of India.

Dated:

District Magistrate / Deputy
Commissioner, etc.

Seal

NOTE:

- (a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- (b) The authorities competent to issue Caste Certificates are indicated below:
 - (i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / 1st Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of 1st Class Stipendiary Magistrate).
 - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
 - (iii) Revenue Officer not below the rank of Tehsildar' and
 - (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.

OBC Certificate issued form Maharashtra State must be validated by social welfare Department of Maharashtra Government