



ADMISSION BROCHURE
(2020-21)

**NATIONAL INSTITUTE OF FOOD
TECHNOLOGY ENTREPRENEURSHIP
AND MANAGEMENT**
(Deemed to be University)
Kundli, Sonipat (Haryana)

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MESSAGE



सत्यमेव जयते

Dr. Chindi Vasudevappa
Vice Chancellor



**National Institute of Food Technology
Entrepreneurship and Management**
(Deemed to be University)
(UNDER MINISTRY OF FOOD PROCESSING INDUSTRIES,
GOVERNMENT OF INDIA)

Date: 27.05.2020

Dear prospective students,

The world is passing through very delicate time when Covid-19 pandemic affecting millions of humans. When life all over is disturbed, one aspect of life which can never take a back seat is Food. Food is essential need of everyone. In such testing times there is a call that we provide safe and nutritious food to all and here lies the challenge. Food scientists and technologists need to innovate and reinvent ways to provide food to poorest person of country. The demand of food which is Ready to Eat (RTE) and Ready to Cook but without compromising the quality and nutritional value is also increasing.

With changing dynamics of world order, there lies exciting business opportunities for both domestic and international players to enter in a big way in food processing. The food industry is already recognized as sunrise industry and it is playing a significant role in the Indian economy and the Government of India is making it's all out efforts to encourage investments in food business.

With growing food demand, there is need to develop the overall infrastructure for food processing. Such developments include improving supply chains, creating innovations in food storage systems, better packaging, value addition and minimizing post harvest losses, development of new processing techniques and designing of indigenous new equipment for mass scale production of food products, especially the Indian traditional food products. These developments would create vast opportunities for young food technologists, scientists, safety & quality assurance officers and auditors.

National Institute of Food Technology Entrepreneurship and Management (NIFTEM), deemed-to-be university under De-novo category, an autonomous institute under Ministry of Food Processing Industries has been established with a view to meet the ever increasing human resource requirement of the expanding food sector in the country. NIFTEM provides quality education with modern amenities and global linkages and students are mentored by experienced faculty. In past few years, NIFTEM has developed many technologies riding on hard work of students. It has created a niche for itself due to which Govt. of India is considering NIFTEM to be an Institute of National Importance (INI)

I welcome the bright young students from across the country to NIFTEM. We at institute are determined to provide space and ambience for realizing their dreams in Food Processing sector.

(Dr. Chindi Vasudevappa)

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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 centre 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 the art infrastructure and facilities.
- Teaching labs of international standards encompassing 7223 m² area.
- Modern classrooms with interactive board, projection system and lecture recording facility
- Acclaimed Faculty with global exposure.
- Video conferencing facility for interaction with foreign teachers
- Four Pilot Processing Plants with the state-of-the-art-facilities.
- A state-of-the-art Food Testing Laboratory

INNOVATIVE CONCEPTS IN EDUCATION

- B.Tech and M.Tech programs: have 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/policy makers
- Experiential learning opportunity through industry internship (B.Tech and M.Tech programs)
- Innovation Research fund for students
- International Exposure to students through “Student Exchange Program”

ACADEMIC DEPARTMENTS

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

The department aims at promoting innovations in the food processing sector and impart basic and practical knowledge so that students can take up challenging assignments in the food industry in India and abroad. Apart from imparting world-class education in the field of food science and technology, the department has research projects in the frontline areas of Food Science and Technology. The department is also involved in skill development of farmers and industry personnel.

DEPARTMENT OF FOOD ENGINEERING

Department of Food Engineering prepares the prospective food entrepreneurs and food techno-managers by providing them basic concepts and practical experience of food processing equipment design, process control and systems analysis. Equipped with this knowledge, 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 the development of managerial and entrepreneurship skills required in this industry. 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 modelling 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.

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 Foods. These will be used for experiential learning by students and providing exposure of working environment to Food Processing Industries. The pilot plants will also be used for scale up process, commercialization of business ideas (Incubation centre) and development of entrepreneurship in future.
- 14 well-equipped Academic laboratories in the area of Animal Product Technology Lab, Biochemistry, Central Instrumentation Lab, Chemistry, Computer, Communication, Dairy and Food Engineering, Engineering Workshop, Engineering Graphics, Electrical & Electronics, Food Engineering, Food Packaging, Food Science and Technology Lab, Microbiology, Physics.

NIFTEM KNOWLEDGE CENTRE (LIBRARY)

The NIFTEM Knowledge Centre (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 faculty members of the 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.

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 23rd 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

MAJOR HIGHLIGHTS OF NIFTEM

COLLABORATIONS ACROSS THE

GLOBE

International collaborations

NIFTEM has MoU with world class institutions viz. Wageningen University, Netherlands, Kansas State University, USA, University of Nebraska Lincoln, USA, University of Saskatchewan, Canada, McGill University, Canada, IFSH, Chicago

National collaborations

CFTRI, Mysore, IARI, Delhi, GSI India, Delhi, NDRI, Karnal, NITIE, Mumbai, CSIR-IITR, Lucknow and EDI, Ahmedabad

STUDENT'S FOREIGN EXCHANGE PROGRAMME

Every year three meritorious B. Tech. students (based on CGPA till fifth semester) and one M.Tech student from each of the five M. Tech. programmes are sent to foreign Universities under student exchange programme for academic learning with 100% fare.

Students have visited following 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

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 disseminate food processing technologies and NIFTEM's mandates 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 students to grass root problems of villagers/farmers and understand 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 4 months industrial internship.

AWARDS RECEIVED BY NIFTEM

- NIFTEM has been awarded the highest Platinum rating in the Green Building Certification for existing green infrastructure. Many initiatives were taken under the 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.
- NIFTEM was ranked fifth in the Swachhta Ranking of institutions by MHRD in Technical colleges category.
- NIFTEM has also received Agricultural Leadership Award 2015 for its contribution to village development

INFRASTRUCTURE

NIFTEM has developed a world class infrastructure including centrally air conditioned, Administrative, Academic, Laboratory Blocks, Cafeteria, Library (a multi-level five story 5474.29 sqm. state-of-the-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, 04 hostels 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//Dispensary/24 hours Ambulance/Shopping Centre 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 each, 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.

IT 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, for food in each hostel..
- 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.

CONFERENCE/SEMINAR/WORKSHOP

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

- Organized 1st International Conference at its Campus on "Innovations and Food Processing, Value Chain Management and Food Safety" on January 10-11, 2013 and workshop on food safety on January 12, 2013.
- 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.
- Workshops on ‘Dehydration of Food and Agricultural Products: Principles, Practices and Prospects’ on 25-26 march 2014 and from 25-27, March 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” form 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)
- *Workshop on ‘Role of Intellectual Property Rights for Start-ups with special focus on Geographical Indications’ (Dec. 20, 2019).*
- *Workshop on ‘Innovative Food Packaging & Testing’ in collaboration with CIPET Sonapat (Sept. 12-13, 2019).*
- Various Training Programs at regular intervals on ‘Cold Chain Technology Management’ organized at NIFTEM, Sonapat, India in collaboration with Danfoss Industries Pvt. Ltd., Chennai.
- *Workshop on ‘Google Power searching and Information Management and Neuro Linguistic Programming (NLP)’ (Sept. 27-28, 2019).*

DIVISIONS

Consultancy Division

- To strengthen Food Processing sector by universalizing core competiveness 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.

Besides, regular training programmes are organised for various stakeholders of food industry.

INTERNATIONAL GRAIN PROCESSING RESEARCH AND TRAINING CENTRE

- The centre has its mandate as training, teaching, research and technology transfer in

the area of primary(shelling, milling, dehushing 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 CENTRE

➤ The International Bakery Centre aims to facilitate experiential learning and product development for the Baking Industry of India.

➤ The centre would conduct research on the problems of the Baking Industry.

➤ The centre would also train the people and upgrade their skills to achieve quality in the bakery units.

➤ The centre helps new entrepreneurs to set up bakery business.

INTERNATIONAL CENTRE 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 Centre of Excellence to work on Food Quality and Safety issues.

➤ Functional areas of the centre 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.

DANFOSS CENTRE OF EXCELLENCE FOR “COLD CHAIN TECHNOLOGY MANAGEMENT”

Danfoss Industries Private Limited in India (100% Subsidiary of Danfoss A/s Denmark) with headquarters at Plot No. A – 19/2, SIPCOT Industrial Growth Center, Oragadam, Chennai has established a ‘Centre of Excellence for Cold Chain Technology & Management’ at NIFTEM. This Centre of Excellence (CoE) in the field of Cold Chain technology Management, aims at spreading awareness to help in the reduction of India’s food waste and food loss due to post-harvest management practices, thereby facilitating India’s vision to become the food factory of the world by 2030. This initiative will equip students with hands on experience on energy efficient solutions in Food industry where they can influence positive change in the operations by their adaptiveness to new and efficient cold chain technologies and developing talent for the food processing industry.

ACADEMIC AND RESEARCH ENDEAVOURS

- Promoting research & to work in emerging areas of knowledge, Ph. D. Programmes started from the year 2013 in all the five PG departments along with 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 lectures on various aspects.
- World Renowned Professors on the list of NIFTEM's Professor Emeritus & Visiting Professors.

NIFTEM being a National Institute of global standards aiming to inculcate knowledge creation in frontier areas of Food Technology and Management sets a deep, distinctive and leading legendary landmark in food research at national level. NIFTEM focuses on a fair balance of food upstream and downstream research conducted through internal as well as collaborative and sponsored projects undertaken. NIFTEM has a team of skilled and dedicated faculty members focusing on needs and demands of present world.

Various research projects under "Make in India" scheme as well as industrial problem based projects with industry collaborations are also initiated.

NIFTEM 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 projects related to food processing/ technology/ developing new equipment under the following programmes:-

i Ph.D Research Programme

All five departments of NIFTEM carry out research in upcoming areas of food and related sciences. Students are provided fellowship and contingencies to carry out research. Students are also encouraged to get fellowships from other agencies such as CSIR, UGC etc. and they are encouraged to publish their work in high quality journals.

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.

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..

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 extends financial assistance to the students to motivate for undertaking 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.

v. Internally Funded Research Projects

In order to facilitate research activities at NIFTEM, the internal funding is given to research projects so that faculty members could start research immediately. Under this scheme three projects worth Rs. 35 lacs were sanctioned.

vi. Externally Funded Research Projects

Different faculty members have been conducting research funded by various external agencies.

Sr · N o.	Title of project	Cost of project	Funding agency
1.	Development, evaluation and optimization of the technologies for the improved postharvest storage, processing and value addition of major and under utilized horticulture crops of Haryana. (2015) COMPLETED	Rs.33.90 lacs	Haryana Kisan Ayog
2.	Capacity building for Post Harvesting Technology Management and Value Addition of Horticulture produce (2013)----- COMPLETED	Rs.155.00 lacs	MIDH-NHM
3.	Antibiotic resistance in lactobacilli of food and faecal origin & detection of genes influence of stress and horizontal transfer. (2013) ----- COMPLETED	Rs.31.00 lacs	ICMR, New Delhi

4.	Development of food products fortified with cereal grasses and evaluation of their Therapeutic Characteristics (2014) COMPLETED	Rs. 27.00 Lacs	SE RB (D ST)
6.	Development of riboflavin enriched probiotic fermented product to mitigate riboflavin deficiency in India and South African children (2016)	Rs. 42.00 Lacs	DST (under Indo-South Africa Bilateral cooperation)
8.	Setting up of food testing laboratory NIFTEM (2014)	Rs. 8.75 Crores	ICAR
9.	Assessment of Physico-chemical and Nutritional Characteristics of Underutilized millets (Kodo&Kutki) Development of Value added products (2017)	Rs. 93.0 lacs	Tribal Development, M.P. Bhopal
10	“Effect of thermal processing on proximate composition and antioxidant activity of Indian edible brown seaweed Sargassumwightii and development of nutraceuticals and functional food from it”. (2018)	Rs 35.86 lacs	MoFPI
11	Evaluation of biofilm antimicrobial property of natural compounds against food borne pathogens (2015)	Rs. 35 lacs	DST/SERB
12	Synthesis and evaluation of alginate-chitosan micro-capsules for targeted delivery of vitamin B12 producing probiotic strain: in vitro and in vivo approach (2018)	Rs 32.155 lacs	DST
13	Synthesis of multifunctional magnetic mesoporous nanocomposites for theronostics platforms (2018)	30.29 lacs	MoFPI

14	Preparation, characterization and evaluation of encapsulated eggplant peel extract in Edible Oil	31.46 lacs	MoFPI
15	Development of protocol for reduction of acrylamide levels in selected potato based snack foods (2018)	25.4 lacs	MoFPI
16	Development of probiotic fruit juice powder	41 lacs	MoFPI

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.

viii. 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 PROSPECTS

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% 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
- Production and Operations Manager in Food industry
- 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.

Student Welfare

The Department of Student's Welfare looks after the protection of rights and supervises the welfare activities. It plays a key and vital role to the journey of students. The efforts of student

welfare are intended to promote students learning and a balanced development of their lives in general.

The central objective is therefore to prevent various problems and to discover barriers to learning. It provides the guidance and the directions to the students. It promotes and co-ordinates the different student activities for better professional life. It also tries to nurture students mental , physical , cultural growth with various activities to improve their overall personality development and to make them compete in the globalized world.

The Department of Student's Welfare is having following officials :-

Sr. No.	Staff Name	Designation	Contact Details	E-mail Id
1	Prof. Kalyan Das	Professor & Dean(Student Welfare)	8814000258 & 0130-2281256	kalyandas.niftem@gmail.com
2	Er. Nitin Kumar	Assistant Prof. & Assistant Dean(Student Welfare)	8199902055	nitin.iit@gmail.com
3	Sh. Aakash Rai	DEO, (Student Welfare) Office	0130-2281113	aakash.niftem@gmail.com

Department of Student Welfare undertakes the following prominent services/facilities mentioned as under:-

- a) Mentorship Programmes for Students (For guiding and providing assistance to students by Faculty)
- b) Security & Safety in Campus
- c) Maintaining Discipline , Code of Conduct & Hostel regulations
- d) Financial Aid (Scholarships & Educational Loans)
- e) Hostels
- f) IT facilities (Internet connectivity-WI-FI, LAN etc.)
- g) Medical facilities (Dispensary)
- h) Transport facilities (Shuttle Service)
- i) Entertainment facilities (LED's , Public Announcement System)
- j) Extracurricular facilities (Indoor Sports Complex, Courts etc.)
- k) Industrial Internships & Visits to the top food processing & agriculture industries.
- l) Special guest lectures from the eminent personalities of industry & academia.
- m) Organising cultural programmes for students on various events of national importance.
- n) Celebration of days of national importance like — Earth day, Environment day, World Food day etc.
- o) Food Facilities (Tuckshops)
- p) Alumni Association
- q) Verification of Antecedents of students and issuance of supporting document.
- r) An on campus dispensary caters to general health problems. Faculty and students have an insurance policy for medical emergencies.
- s) Ambulance facility at the dispensary has been provided to meet the emergencies.

- t) A bank, grocery shop and other general amenities are available on campus.
- u) 100% Power backup facility in the campus.
- v) The sports facilities have been developed to the large extent.
- w) The Campus is very well maintained by an efficient housekeeping and landscaping staff.
- x) Facility of common rooms and gyms provided in all the hostels.

Student Societies

The NIFTEM Student Activity Council (SAC) is aimed to provide platform for bringing out talent among students. SAC office will function for coherent and instrumental participatory nominations by the students. The SAC will be headed by Dean (Student Welfare) and the faculty member as its in-charge along with a team of students to be allotted under sectoral attachment to monitor and coordinate with all societies.

The NIFTEM STUDENTS ACTIVITY COUNCIL will have the following dignitaries as its member:-

Patron in Chief of NIFTEM Student Activity Council-Dr. C. Vasudevappa, Hon'ble Vice Chancellor, NIFTEM

Patron of NIFTEM Student Activity Council- Prof. Kalyan Das, DEAN(Student Welfare), NIFTEM

Details of the Student Activity Council is mentioned as under:-

Sl No.	Name of Society	Scope of activities	Faculty In-charge	Vice President	Secretary
1	Scientific and Technical Society	Various technical and scientific competitions like food fest, model presentation, IT based competitions, Science day etc.	Prof. P K Nema Er. Barjinder Pal Kaur	Himanshu Kushwah 819010	Vikhyat 117141
2	Literary Society (Geetanjali)	Quizzes, debates, essay writing and other competitions etc.	Dr. Neela Emanuel Er. Arun Sharma	Aviral Yadav 519002	Tushti Jain 117138
3	Cultural Society (Saarang)	Cultural activities like - Dance, music, theatre,, movies (including organizing Days of National Importance)	Er. Kumar Rahul Er. Pramod Kr. Prabhakar Ms. Shweta Dahiya	Siddharth Vatsa 519008	Disha Jain 117043
4	Fine Arts Society	Photography, videography,	Dr. Sanjay Bhayana	Aabha Musale 819001	Divyank Raj Pathak

	(Kalakriti)	painting, sketching, rangoli competitions etc.	Dr. Sapna		117045
5	Personality Development Society (Vyaktitva)	Yoga Classes, Art of Living Mock GD & PI, Soft skill development	Dr. Vikas Saxena Dr. Rakhi Singh	Kushal Singla 819015	Dhruv Deshwal 117146
6	Sports Society (Samarthya)	All kind of sports activities (NSL, NCL , NVL , NBL etc.)	Dr. Vijay Kumar Dr. Sarika	Dhruv Thakur 419005	Anshuman Singh 117020
7	Environmental conservation society (Prakriti)	Greening of campus, energy and waste management	Dr. Sunil Pareek Dr. Tripti Agarwal	Paramjeet 819019	Ashish Singh 117027
8	Business Management Society (BIZ-MAC)	Focussed on development of managerial skills , marketing skills and industry related practical requirements	Dr. Vimal Pant	M.B.A Class representative	
9	AARAMBH Society	Extending support to the underprivileged and economically weaker students in academics.	Dr. Vijendra Mishra Dr. Anupama	Akhand Pratap Singh 117011	Mukesh Chandra Joshi 117083

Student Hostels & Basic Amenities

HOSTEL ACCOMMODATION

There are 04 Hostels (03 for Boys & 01 for Girls) with a capacity of 950 students. We have four different Hostels named as; Brahma Putra, Sutlej, Kaveri and Ganga. Ambience with the right blend of 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 centralised gymnasium equipped with the latest state of art equipment to ensure the good physical health of the students and to improve physical health & vigour. Laundry service is also available within the hostels. A canteen service has been provided 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 all students.

Hostels are having Bio-Metric Attendance procedure to monitor the in and out of the students. Hostels are also equipped with Local Area Network and Wi-Fi connectivity for 24 hours which also helps students in getting the access of study materials and online study material availability. 100% Power backup is also available in the hostel premises to ensure power availability to the students. Entertainment Facilities like Common room is equipped with LED's , Dish TV Connections , Study Room, News Paper Stands are also present in each hostels. Public Address System is also installed in each hostel for circulation of any important and urgent information in the hostel premises.

*one more hostel is under construction for post graduate students.

Details of the Hostel are mentioned as under:-

Sr. No.	Staff Name	Designation	Hostel
1	Dr. Neetu K. Taneja	Assistant Professor & Warden	Kaveri (Girls) & Porta Cabin – 1
2	Dr. S. Chakkaravarthi	Assistant Professor & Warden	Brahmaputra (Boys)
3	Dr. Prayaga M. Krishana	Assistant Professor & Warden	Ganga (Boys) & Porta Cabin-2
4	Er. Vijay S Sharnagat	Assistant Professor & Warden	Satluj (Boys)

CAFETERIA

In the immediate vicinity of the NKC, there is a big cafeteria in the campus offering variety of hygienic food and beverage items.

RESIDENTIAL & AMENITIES

NIFTEM is having 100% Residential Campus equipped with the basic amenities which is required for day to day practices like the Shops , Laundry , Medical Dispensary, Canteen , Gymnasium , Photocopy and Reprographic. The Porta Cabins are also developed by keeping in view of the Visiting Guest with the attached Bath Facilities and the Sports Complex.

MEDICAL FACILITIES

Round the clock medical facility exists within the campus wherein a doctor is available during institute hours and on call. To facilitate prompt action during any medical emergency, dedicated paramedical staffs is always present. Also the campus dispensary has been provided with all the essential first aid medicines and an ambulance.

MARKET COMPLEX

A small market complex exists in NIFTEM campus having convenience facilities like Saloon, Provision Store, Ice Cream Parlour and Fruits outlet.

LAUNDRY FACILITIES

Laundry service is also available for washing and ironing of the clothes within the hostel.

PHOTOCOPY AND REPROGRAPHIC CENTER

Apart from the institutional photocopy services, a Photocopy and reprographic centre caters to frequent photocopy, spiral binding and other related requirements of the students.

INTERNATIONAL GUEST HOUSE FACILITIES

An Air conditioned guest house facility for parents and visitors is available on payment basis. They can avail the facility only on advance booking.

Sports facilities including Gym

Sports are an integral part of the curriculum and at NIFTEM, we are concentrated on all round development of the students. Keeping in view of health and personality development concerns of the students, NIFTEM has a Sports Society named as (Samarthya), which is responsible for all the Sports activities scheduled in the Campus or participation of the students in Inter Universities, National Level or State level competitions.

a) CENTRALISED GYMNASIUM FACILITIES:- Centralised Gymnasium equipped with the latest state of art equipment to ensure the good physical health of the students. Its main aim is to promote the health and vigour to students.

- b) Two Basketball Courts
- c) One Football Courts
- d) Two Indoor Badminton Courts (Basement)
- e) Two Outdoor Badminton Courts (Satluj & Ganga)
- f) Two Outdoor Badminton Courts (Porta Cabins)
- g) Two Lawn Tennis Court
- h) Two Volleyball Courts
- i) Two Cricket Practice Nets
- j) Kabaddi Court*
- k) One Indoor Sports Complex *
- l) Athletic Track*

* Upcoming Facilities

Scholarships:-

Scholarships are important part of academic institution whereby deserving students are supported to excel in their studies. NIFTEM has the policy of supporting students who not only excel in studies but also who have limited resources to meet their needs.

In addition to the Central / State govt. scholarships for SC/ST/ OBC, etc., NIFTEM provides following types scholarship to students:-

- **NIFTEM Merit Scholarships**

- **NIFTEM Merit-cum-means scholarships**
- **Educational bank loan – for Students:-** NIFTEM assists all students who desire to avail study loan from banks. In this respect, State Bank of India's branch located inside the campus provides all necessary help and students are provided step by step guidance to process their student's loan.
- **Industry Sponsored (Corporate) Scholarships:-** The fund contributed by corporate / organisations is kept in a corpus fund on long term basis. This fund is invested in any scheduled bank after obtaining the competitive rates from banks. The above scholarship is disbursed out of the interest earned out of the corpus funds on yearly basis. This Scholarship is awarded with two above mentioned scholarships

Annual events:-

The Department of Student Welfare through its various societies organises various annual events which is mentioned as under:-

- Orientation Programme for the newly admitted students.
- Annual Cultural Festival for 3 days
- Annual Sports League (NSL) for 3 days
- **Days of National Importance:-** Republic Day, Independence Day, Constitution Day, Hindi Pakhwada , Qaumi Ekta Week, National Integration Day , Vigilance Awareness Week etc.
- Celebrations of festivals like:- Ganesh Pooja , Deepawali , Saraswati Pooja , Holi , Onam, Pongal
- ART of Living Sessions (YES+)
- Alumni Meet
- Freshers Party for U.G. Courses (B.Tech)
- Freshers Party for P.G. Courses (M.Tech & M.B.A)
- NIFTEM Cricket League (NCL) , NIFTEM Basketball League (NBL),NIFTEM Volleyball League (NVL) , NIFTEM Badminton League (NBL)
- Farewell Party for U.G. Courses (B.Tech)
- Farewell Party for P.G. Courses (M.Tech & M.B.A)

GENERAL ADMISSION INFORMATION

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

1. Application fee: Each candidate has to deposit application fee (non refundable) as per following:

Application Fee (Non Refundable)

	Fee (Rs)
SC/ ST	500
General and other categories	1000

2. Reservation for Indian Nationals: The number of seats in each of the programs in NIFTEM, as announced in this admission guideline, 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 & II at the end of this brochure for Undertaking and 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.
- (d) 10% seats for Economically Weaker Sections (*Please refer to Annexure –III for format of certificate for claiming the reservation*)

Further, 3% seats are reserved (horizontal reservation) for Persons with Disabilities (PWD) candidates.

3. 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.

4. 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.

5. The M. Tech entrance test for Non GATE candidates, MBA entrance test for non CAT/MAT candidates and PhD entrance test (RET) will take place at NIFTEM Campus, Kundli, District – Sonapat, only. There would be no other centre within or outside the country. **Due to current situation arising out of Covid-19 pandemic, these admission tests may be conducted online also. The candidates must see website regularly for further details.**

6. Application forms for admission in M. Tech, MBA and PhD Programmes of NIFTEM are to be filled online only. Applicants should not send the printed copy of application form to NIFTEM. Admission brochure/guidelines are available on the website.

7. Final merit list, counselling schedule and counselling 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. Once the merit list is uploaded on website, it will be responsibility of candidate to complete whole process including submission of fee during given time period. The candidate must ensure that fee submission is complete. Institute will not be responsible for any delay/hurdle in transaction process.

9. 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.

10. 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.

11. Documents required for admission:

- Class X Certificate (as a proof of DoB)
- Class XII Certificate
- Undergraduate Marksheet and Certificate
- Postgraduate Marksheet and Certificate (wherever applicable)
- GATE Scorecard (if available for M. Tech candidates)
- CAT/MAT Scorecard (if available for MBA candidates)
- JRF Certificate (For PhD candidates only, if qualified)
- Caste Certificate(s) (if applicable) of SC/ST/OBC (*OBC candidates must refer Annexure- I & II at the end of this brochure for valid undertaking and format. The certificate to be issued on or after 1st April, 2020.*)
- EWS certificate (*format placed at the end of the brochure Annexure III*)
- 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 photographs (04)

Important Note:

Candidates failing in production of Category/ Physically Challenged certificate during the counselling will be considered as GENERAL and will automatically lose his/her claim of due reservation.

(a) 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.

(b) 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.

(c) In the absence of mandatory documents of proof for eligibility, the candidates will not be allowed for admission to the programmes. The admission offered to a candidate who has been provisionally admitted to a program 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 etc.) in the Academic Cell before the stipulated date.

(d) 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 NIFTEM reserves all rights to cancel the admission and such a decision shall be final and binding on the candidate(s).

(e) It is the responsibility of the candidates to ascertain whether they possess requisite qualification for admission.

(f) 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.

WITHDRAWAL FROM ADMISSION AND 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
1	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
2	Request received after the date of commencement of session	No refund of the fee deposited except the refundable security amount

Cancellation of B.Tech Admission after taking admission at NIFTEM will be processed only after transfer of funds from JOSA.

ADMISSION GUIDELINES 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 2020- 21 are provided as under:

ELIGIBILITY:

Candidates are advised to refer to JEE (Main)-2020 website. The eligibility conditions of JEE (Main) -2020 will be applicable.

Admission Procedure:

Admission will be done through JEE (Main) – 2020. Eligible candidates will fill the application form of JEE (Main) – 2020. Subsequently counselling will be done by JoSAA/CSAB-2020. All candidates are advised to refer to website of JEE (Main) – 2020 (www.jeemain.nic.in) and CSAB -2020/JoSAA-2020 website for further details.

Note: In case seats from JoSAA/CSAB remains vacant, Institute may fill those seats through own counseling. The eligibility conditions and other relevant rules will be communicated on institute website after JoSAA/CSAB counseling is over.

NUMBER OF SEATS:

For Indian Nationals: 169 (all reservation as per Government of India norms).

The Seat Matrix (Indian Nationals) for B. Tech (Food Technology and Management) – 2020-21 admission is shown below:

Category	GE N	OB C	SC	ST	EW S	Tot al
Number of Seats	66	45	24	13	16	154
3% for PWD	02	01	01	00	01	05
	68	46	25	13	17	169

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, currently it is 11.60% p.a. (i.e. 1.75% above base rate). The bank also provides **SBI 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

FEE STRUCTURE (INDIAN NATIONALS) FOR B. TECH. PROGRAMME:

➤ Students who get admission through JoSAA/CSAB have to pay balance of the total semester fee via online payment process (no instalments) before admission schedule at NIFTEM campus. The details of fee SBI collect, online payment link, list of documents to be submitted for verification during the admission time at NIFTEM campus will be provided on NIFTEM website.

➤ Students are strictly instructed to see the notification and guidelines of JoSAA/CSAB website for counselling rounds, selection choice and registration amount payments, etc.

ADMISSION GUIDELINES M.TECH. PROGRAMME

ELIGIBILITY CRITERIA

Four Years Bachelor's Degree or a Master's degree in relevant discipline with minimum 60% marks in aggregate.

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 Science and Nutrition/ Clinical Nutrition and Dietetics/ Meat Science/ Meat Technology/ Animal Product Technology/ Live Stock Product Technology 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. (FPEM)	B.E./ B.Tech. degree in 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/ Mechanical 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 prescribed 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 prescribed 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 Process Engineering/ 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: 16 in each M. Tech. programme. Seat Matrix indicating reservation under different categories are as follows-

Category	GE N	OB C	SC	ST	EW S	Total
No. of Seats	7	4	2	1	2	16

Further, there would be three seats reserved under PWD quota (with minimum 40% disability) to meet 3% 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.

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. Merit list will be prepared based on valid GATE score only. The merit list will be displayed on the NIFTEM website. In case two candidates will have same GATE score then the bachelor degree marks will be considered for merit list for those candidates. After the admission of eligible GATE qualified candidates, the remaining seats, if any, will be filled by Non-GATE candidates. The Non-GATE candidates would require to qualify the common entrance exam to be conducted by NIFTEM at NIFTEM Campus Kundli/ or *Online. There will be no other exam centre than NIFTEM Kundli in case of offline mode. 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.

Due to the ongoing COVID-19 pandemic and nationwide lockdowns, the exam for Non-GATE candidates may be conducted **Offline/Online, based on the situation prevailing at that time. In such case, the schedule for exam will be shared separately on NIFTEM website.*

PATTERN OF ENTRANCE TEST

The written test for non-GATE candidates shall consist of hundred (100) 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 and thirty minutes. The test shall consist of two parts.

Part-A shall contain twenty (30) questions to test the Mental Ability, English and General Knowledge. Part-B shall contain fifty (70) 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

Tentative Online Counselling Schedule for M.Tech. (2020-2021)

Important Dates for M.Tech. (GATE) Admissions

11.06.2020(Thu) to 15.07.2020 (Wed)	Submission of application form online
20.07.2020 (Mon)	Announcement of List of eligible/shortlisted M.Tech. (GATE) candidates
23.07.2020 (Thu)	Announcement of Merit list for M.Tech. (GATE) candidates
24.07.2020 (Fri) to 10.08.2020 (Mon)	Counselling for M.Tech. (GATE) admissions. Different rounds of M.Tech.GATE counseling will be done and the details of each round will be displayed on NIFTEM website. During these rounds, the candidates will be informed through email about selection and to submit fee.

Note:

• The above schedule is tentative and may change due to any unavoidable circumstances. Further, the admission schedule for Non-GATE candidates, in case any seat is vacant after admissions through GATE, will be shared separately on NIFTEM website.

ADMISSION GUIDELINES MBA PROGRAM

NIFTEM offers two year, full time MBA Degree Programme in Food and Agribusiness management to fulfil the industry demands. For the next academic year 2020-21, below mentioned details are of MBA Admission process regarding and approval please:

A. Eligibility Criteria, No. of Seats, Selection Process and Entrance Test components

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 (needs to change as per reservation policy)

Currently there are 30 seats available in the program. Seat Matrix indicating reservation under different categories as per Govt. of India norms are as follows.

Category	GE N	OB C	SC	ST	EW S	Total
No. of Seats	12	8	5	2	3	30

Due reservation would be given to KM/PC etc. as per Government of India Norms provided they mention their category in application form.

Selection Process

The selection procedure to MBA Programme is based on last two years' valid score of CAT/MAT and an Internal-Test for Non-CAT/MAT category applicants (including those not shortlisted through CAT/MAT). The final selection of shortlisted candidates will be made on the basis of GD/PI, past academic performance, and work experience.

Pattern of Entrance/ Internal-Test

The written test of 90 minutes conducted for Non-CAT/MAT category applicants ((including those not shortlisted through CAT/MAT) shall consist of fifty (50) objective type questions of 2 marks each. There will be no negative marking for wrong answer(s). The question paper would consist of three sections as given below:

Section(s)	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

B. Tentative Time line for MBA Admissions

S.No.	Activity	Proposed Dates
1.	Last date for Receiving MBA applications	10 th July 2020

2	(For Non CAT/MAT candidates) List of eligible candidates for test to be uploaded + (For CAT/MAT candidates) List of eligible candidates for direct GD/PI to be uploaded	18 th July 2020
3	Test for non CAT/MAT candidates	21 st July 2020
	GD/Interview for CAT/MAT Candidates + Non CAT/MAT candidates	Group Discussion: 23 rd July 2020 Interview : 27 th July 2020 -31 st July 2020
4	Result declaration of selected candidates	5 th August 2020
5	Online counselling last date for fees submission/admission process	11 th August 2020
6	Reporting date	1 st September 2020

3. Admission Criteria:

As per the past practice, NIFTEM shall admit MBA candidates by a two stage process: (a) short listing of eligible applicant through CAT/MAT/NIFTEM entrance test; (b) GD/PI of shortlisted candidates to be conducted at NIFTEM. The MBA candidates who are not shortlisted (as per the decision of Scrutiny and short listing committee to be proposed by HoD-FBM) based on their CAT/MAT score would be allowed to appear in MBA entrance test. Final Merit list of candidates would be prepared on the basis of performance of candidate in GD/PI, past academic records and relevant work experience. MBA counselling process shall start with the declaration of list of qualified candidates to attend the online counselling starting from 5th August 2020 onwards.

As per past practices, Candidates appear physically for entrance test however; this time entrance test may be conducted either online or offline based on prevailing situation. Further, GD/PI of shortlisted candidates also may be conducted online via video conferencing platform like Google meet, Webex etc. this has been proposed for this year only.

ADMISSION GUIDELINES PhD PROGRAM

NIFTEM offers PhD programmes in the following departments and areas.

Areas of Research:

a) Agriculture and Environmental Sciences: (Post Harvest Management and Processing of fruits and vegetables, Environmental issues in Food Sector)

b) Basic and Applied Sciences : (Food Safety, Food Microbiology, Food diagnostics, Lipid Oxidation, Food fortification, Prebiotics, Biosensors, Active Packaging, Green Energy Technology, Smart materials and nano-composites, Mathematical Biology, Queuing Theory, 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, 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)

Note: All research work undertaken would be related to their application in the Food Sector.

c) Food Engineering: Process modelling and simulation, Bio Conversion technology, Design and development of processing equipment, Renewable energy in Food Processing, Unit operations of Food Engg, Food Packaging Technologies, Drying and Storage Technologies, Novel Food Processing Technologies, Food by products / food processing industry waste management, Operational design in food industries

d) 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, Business Strategy, Marketing, Entrepreneurship Development, General Management, Organisation Behaviour, Operations Management, Work Study, Operations Research, Supply Chain, Quality Management

e) Food Science and Technology : Food Technology, Waste Utilization, Value addition, New Product Development, Food Safety and Toxicity evaluation, in vitro and in vivo Toxicity and Safety studies of developed food/food ingredient, Risk Assessment of various contaminants/toxicants in food/Bio-availability & ADME studies, in vitro and in vivo digestibility studies, Safety/Migration studies of packaging material/components, Nutraceuticals & Functional food, Nutrition, Dietetics, Nutritional Biochemistry, Nutraceuticals and Functional Foods, Food designing etc.

A. SELECTION PROCESS

Eligibility Criteria: M. Tech. /Master Degree in a relevant discipline with at least 60% marks at Masters. Candidates can apply ONLY IN ONE DEPARTMENT.

A relaxation of 5% of marks (from 60% to 55%) shall be allowed for the candidates belonging to SC/ST/OBC (Non-Creamy layers)/Differently-abled category in the entrance examination conducted by the Universities.

Provided further that, if in spite of the above relaxation, the seats allotted for SC/ST/OBC(Non Creamy layer)/Differently-Abled categories remain unfilled, the concerned Universities shall launch a Special

Admission Drive, for that particular category within one month from the date of closure of admissions of General Category. The concerned University will devise its own admission procedure, along with eligibility conditions to ensure that most of the seats under these categories are filled.”

Department	Essential Qualification
Agriculture and Environment Sciences (AES)	M. Tech. in Food Science/ Food Technology and Management/Food Safety and Quality Management/ Food Supply Chain Management/ Biotechnology/ Biochemical Engineering/ Nanotechnology/Post Harvest Technology OR M. Sc. Degree in Food Science & Technology/ Microbiology/ Biotechnology/ Life Science/Agriculture Science/ Horticulture/ Postharvest Management/Postharvest Technology/Cold Chain Management/Environmental Science/Environmental and Allied area from recognized Institute/University
Basic and Applied Sciences (BAS)	M. Tech. in Food Science/ Food Technology and Management/ Food Technology/Dairy and Food Technology/ Process Engineering and Management/Food Biotechnology/Food Safety and Quality Management/Food Supply Chain Management from a recognized University / Institute. In addition or Masters degree in Food Science and Technology/Biochemistry /Microbiology/ Chemistry/ Biotechnology/ Food biotechnology/Food and nutrition/ Life Science/ Agriculture Science/ Environmental Science/ Mathematics/ Statistics/ Operational Research/ Physics/Materials Science from a recognized University / Institute
Food Business Management and Entrepreneurship Development (FBM) & ED	MBA, PGDBM (all areas) (Two years program), M.Com, CA, ICWA, M.Tech. (Operations/Food Plant Operations/Industrial Engineering) or its equivalent from a recognized University/Institute.
Food Engineering (FE)	M.Tech in / Food Technology and 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/ Food and Bio Process Engg / Dairy and Food Engg/Post Harvest Process and Food Engg and Management /Food Technology and Management/Farm machinery and power Engg

<p>Food Science and Technology (FST)</p>	<p>M.Tech. Food Science / Food Technology and 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/MTech in Food and Bioprocess Engineering, Process and Food Engineering, Nanoscience and Technology/Biochemical Engineering from a recognized university / institute.</p> <p>In addition, M.Sc./Master's degree in Food Technology / Food Science & Technology / Nutritional biochemistry/Food Science & Nutrition /Clinical Nutrition and Dietetics/Toxicology/Vet. Pharmacology & Toxicology/Nanotechnology/Nanoscience and Technology/Meat Science/ Meat Technology/ Animal Product Technology/Livestock Product Technology are eligible for admission.</p> <p>Candidate may be required to go deficiency courses as per requirement.</p>
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Selection & Mode of Programme: Candidates who have qualified UGC-NET (including JRF)/UGC-CSIR NET (including JRF)/ICAR-NET (including JRF/SRF)/Other JRF holding candidates, 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. Other candidates (including part time) will have to appear for RET. DST (INSPIRE) candidates would be allowed to appear in the interview directly. In case DST INSPIRE candidate gets selected, he/she should produce confirmation of fellowship from DST failing which his/her admission will be cancelled

JRF/SRF candidates already working in the externally funded projects of the NIFTEM can be enrolled as PhD students provided they qualify RET and interview. Such candidates will get fellowship/JRF from the project till the end of the project. After project is finished, such candidates will get NIFTEM PhD fellowship, provided he/she has secured NIFTEM PhD fellowship at the time of admission 2020 as well as it will be as per NIFTEM PhD regulations.

Due to prevailing COVID-19 circumstances, RET and Interview can be conducted by NIFTEM either online/offline (Details to be uploaded on NIFTEM website).

Both NET (including JRF) 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. *For selection of candidates, a weightage of 70% to the entrance test and 30% to the performance in the interview/viva-voce shall be given.* Candidates holding fellowship appearing directly for interview, marks obtained out of 30 to be first converted to 100 and then Normalization of scores (for both type of candidates, i.e., fellowship holders and non-fellowship holders) will be done before preparing final merit list.

Separate department-wise (subject specific) merit lists to be prepared. Separate merit list (department wise) will be prepared for part-time candidates.

SEATS AND FELLOWSHIPS

❖ PhD Seats under full time and part time mode for the academic session 2020-21 are given below. Only 02 candidates per department will get NIFTEM PhD fellowship based on merit for the year 2020-21. Part Time candidates will NOT get NIFTEM PhD fellowship. Fellowship would be extended beyond 3rd year as per NIFTEM PhD regulations.

Seat matrix and reservation:

Department	UR	SC	ST	OBC	EWS	Total
FST	2 + 1 (PT)	1	-	1	1	6
AES	2 + 1 (PT)	1	1	1	-	6
BAS	2 + 1 (PT)	1	-	2	1	7
FBM	2	1	-	2 + 1 (PT)	-	6
FE	1 (PT)	1	1	1	1	5
Total						30

RET Syllabus and Interview:

❖ .As per entrance paper choice, the syllabus of the Entrance Test (RET) shall consist of 50% of research methodology and 50% shall be subject specific. **There shall be NO negative marking for wrong answer.** Syllabus for the entrance exam will be uploaded on NIFTEM website.

❖ Interview scheme: Each department will carry out interview. The pattern of interview will be as follows

UG marks	PG marks	Fellowship	Publications	Interview
2 (Proportionate to 100%)	3 (Proportionate to 100%)	8 (to be given to student if he/she possesses any kind of fellowship as mentioned above to pursue PhD)	2 (Each SCI journal paper to have 1 mark subject to max. of 2 marks)	15 (Based on Student's scientific & research ability in particular area of research)

Important points for Part time applicants

1. The candidate will have to undergo stipulated course work along with regular students. No weekend classes will be conducted for such students.

2. The student will have to submit synopsis immediately after course work and get it approved as per due procedure. Once synopsis is approved, student may be allowed to pursue rest part of PhD at their parent organisation
3. Student will have to propose a co-guide from the place of work (Industry/academic organization). The proposed co-guide should be a PhD and need to be recognized by institute through DRC. In case no PhD person is available, a person of high authority in parent organization can be considered as advisory committee member
4. Student will have to compulsorily present progress of research work in NIFTEM else registration to next semester may not be considered.
5. The student will have to follow all other regulations of NIFTEM as other students.
6. Permission from parent institute relieving candidate for pursuing Part-time PhD and leave granted shall be produced at the time of interview can be mentioned in "important points for Part time applicants.

Per Semester fee including one time charges of Different Courses at NIFTEM (2020-21)

Particulars	B. Tech			M. Tech		Ph.D		MBA	
	GEN/OBC	SC,ST & Diviyang	TFW* to EWS	GEN/OBC	SC,ST & Diviyang	GEN/OBC	SC,ST & Diviyang	GEN/OBC	SC,ST & Diviyang
Tuition Fee	41650	0	0	25850	0	12220	0	49500	0
Enrollment & Registration Charges	5000	5000	5000	5000	5000	5000	5000	5000	5000
Laboratory Charges	4000	4000	4000	10500	10500	11500	11500	2500	2500
Library Charges	3000	3000	3000	3000	3000	3000	3000	3000	3000
Institution Development Fund	8000	8000	8000	8000	8000	8000	8000	8000	8000
Examination Charges	3000	3000	3000	3000	3000	0	0	3000	3000
Outreach Activities	3000	3000	3000	3000	3000	0	0	3000	3000
Student Activity Charges	2800	2800	2800	2800	2800	2800	2800	2800	2800
Medical Charges (Including Medical Insurance)	2000	2000	2000	2000	2000	2000	2000	2000	2000
Total	72,450	30,800	30,800	63,150	37,300	44,520	32,300	78,900	29,300

01 Hostel Room Rent (Per Sem) Including Electricity, IT, Water Charges per semester

Double Seater Room	6000	6000	6000	6000	6000	-	-	-	-
Double Seater Room (AC)	-	-	-	-	-	-	-	15000	15000
Single Seater Room	-	-	-	9000	9000	9000	9000	-	-

01. One Time Charges: At the time of Admission

A) Security Deposit- Refundable (Institution/Library/Mess)	15000	15000	15000	15000	15000	15000	15000	15000	15000
B) Other Charges (Alumni / Membership /Laptop/Bank charges/Identify Card)	11650	11650	11650	11650	11650	11650	11650	11650	11650

02. Optional for MBA (2nd semester)

International Immeration Programme								140000	140000
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Note: (i) Mess charges/advance is payable per semester, which are variable.

(ii) For PhD the comprehensive viva voce and thesis evaluation charges @ Rs. 15000/ are payable at the time of thesis submission.

* TFW (Tution fee waiver) to max 5% of permitted intake in order of lowest to highest income with limit as applicable for the year of admission

(Every effort is made to present correct information; in case of any discrepancy the official records will be final)

Fees for part time PhD candidates will be the same as that of regular candidates except hostel fees, if the same is not availed

Annexure I

**Form of Declaration/Undertaking to be submitted by OBC Candidate
(In addition to the community certificate)**

I, _____ Son/Daughter of Shri
_____ resident of village/town/city

District _____ State

_____ hereby declare that I belong to the
_____ community which is recognized as a
backward class by the Government of India as per orders contained in the Department of
Personnel & Training Office Memorandum No. 36012/22/93-Estt.(SCT) dated 08th
September, 1993. I also declare that I do not belong to the persons/sections (**Creamy Layer**)
mentioned in Column 3 of the Schedule to the above referred Office Memorandum dated
08th September, 1993, which is modified vide Office Memorandum No. 36033/3/2004-Estt.
(Res.) dated 09th March, 2004, O.M. No. 36033/3/2004-Estt. (Res) dated 14th October, 2008
and O.M. No. 36033/1/2013-Estt. (Res.) dated 27th May, 2013. I also declare that the
condition of status/annual income for creamy layer of my parents/ guardian is within
prescribed limit as on financial year ending on March 31, 2020.

Signature of Candidates: _____

Full Name: _____

Correspondence Address: _____

Place: _____

E-Mail: _____

Mobile No: _____

Date: _____

Declaration/Undertaking not signed by the candidate will be rejected

Performa for Other Backward Class (OBC) Certificate

(CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES APPLYING FOR ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs), UNDER THE GOVERNMENT OF INDIA)

“The Certificate must have been issued on or after 1st April, 2020

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.
- (xvi) Resolution No. 12011/14/2004-BCC dated 12/03/2007 published in the Gazette of India Extraordinary Part I Section I No. 67 dated 12/03/2007.
- (xvii) Resolution No. 12018/6/2005-BCC dated 10/10/2007 published in the Gazette of India Extraordinary Part I Section I No. 311 dated 12/10/2007.
- (xviii) Resolution No. 12015/2/2007-BCC dated 18/08/2010 published in the Gazette of India Extraordinary Part I Section I No. 232 dated 18/08/2010 & Corrigendum dated 11/10/2010.

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 or the latest notification of the Government of India.

Dated:

District Magistrate/ Competent Authority

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 / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
 - (ii)** Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
 - (iii)** Revenue Officer not below the rank of Tehsildar.
 - (iv)** Sub-Divisional Officer of the area where the candidate and / or his family resides.
- (c)** The annual income / status of the parents of the applicant should be based on financial year ending March 31, 2011.

DOCUMENTS REQUIRED FOR RESERVATION UNDER EWS CATEGORY

Persons who are not covered under the scheme of reservation for SCs, STs and OBCs and whose family has gross annual income below Rs **8.00 lakh** (Rupees eight **lakh** only) are to be identified as EWSs for benefit of reservation. Income shall also include income from all sources i.e. salary, agriculture, business, profession, etc. for the financial year prior to the year of application.

Also persons whose family owns or possesses any of the following assets shall be excluded from being identified as EWS, irrespective of the family income:-

- i. 5 acres of agricultural land and above;
- ii. Residential at of 1000 sq ft. and above;
- iii. Residential plot of 100 sq. yards and above in notified municipalities;
- iv. Residential, plot of 200 sq. yards and above in areas other than the notified municipalities.

The property held by a "Family" in different locations or different places/cities would be clubbed while applying the land. or property holding test to determine EWS status.

The term "Family" for this purpose will include the person who seeks benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.

INCOME AND ASSET CERTIFICATE ISSUING AUTHORITY AND VERIFICATION OF CERTIFICATE

The benefit of reservation under EWS can be availed upon production of an Income and Asset Certificate issued by a Competent Authority. The Income and Asset Certificate issued 'by any one of the following authorities in the prescribed format as given below shall only be accepted as proof of candidate's claim as 'belonging to EWS: -

- (i) District Magistrate/Additional District Magistrate/ Collector/ Deputy Commissioner/Additional Deputy Commissioner/ 1st Class Stipendary Magistrate/ Sub-Divisional Magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner
- (ii) Chief Presidency Magistrate/Additional Chief Presidency Magistrate/ Presidency Magistrate
- (iii) Revenue Officer not below the rank of Tehsildar and
- (iv) Sub-Divisional Officer or the area where the candidate and/or his family normally resides.

आदिवासी

Government of

(Name & Address of the authority issuing the certificate)

INCOME & ASSEST CERTIFICATE TO BE PRODUCED BY ECONOMICALLY WEAKER SECTIONS

Certificate No. _____

Date: _____

VALID FOR THE YEAR _____

This is to certify that Shri/Smt./Kumari _____ son/daughter/wife of _____ permanent resident of _____, Village/Street _____ Post Office _____ District _____ in the State/Union Territory _____ Pin Code _____ whose photograph is attested below belongs to Economically Weaker Sections, since the gross annual income* of his/her 'family**' is below Rs. 8 lakh (Rupees Eight Lakh only) for the financial year _____. His/her family does not own or possess any of the following assets*** :

- I. 5 acres of agricultural land and above;
 - II. Residential flat of 1000 sq. ft. and above;
 - III. Residential plot of 100 sq. yards and above in notified municipalities;
 - IV. Residential plot of 200 sq. yards and above in areas other than the notified municipalities.
2. Shri/Smt./Kumari _____ belongs to the _____ caste which is not recognized as a Scheduled Caste, Scheduled Tribe and Other Backward Classes (Central List)

Signature with seal of Office _____

Name _____

Designation _____

Recent Passport size
attested photograph of
the applicant

*Note1: Income covered all sources i.e. salary, agriculture, business, profession, etc.

**Note 2: The term "Family" for this purpose include the person, who seeks benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years

***Note 3: The property held by a "Family" in different locations or different places/cities have been clubbed while applying the land or property holding test to determine EWS status.