



## Faculty of Livestock, Fisheries and Nutrition

# PROSPECTUS



Faculty of Livestock, Fisheries & Nutrition  
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## Faculty of Livestock, Fisheries and Nutrition

# PROSPECTUS

Food Production &  
Technology Management

Food Science & Nutrition

## Wayamba University of Sri Lanka



# Why Study Food Production and Tech Management & Food Science and Nutrition?

Food and nutrition is the cornerstone of a healthy and active society. Since there is a direct link between diet and health, the general public is becoming more nutrition-conscious and are demanding higher quality foods that maintain health and prevent disease. On the other hand, the government has targeted the food sector as being of great strategic importance, capable of generating considerably more wealth and employment. Therefore this Science and Nutrition degree program has been developed to meet these needs among the general public, the food and related industries, academic and research



organizations, government and non-government agencies. The degree program will qualify graduates to fit into programs related to human nutrition or careers in food and related industries in Sri Lanka and abroad. The training in livestock and aquaculture both being areas of rapid growth in Sri Lanka and abroad will further enhance the employment prospects of graduates. Recent surveys of manpower requirement in these sectors have highlighted the

urgent need for properly trained people. Therefore, our graduates are high in demand for careers in production management, quality assurance, quality control, consultancy, program planning, research, product development, extension, marketing, etc. A higher than average proportion of undergraduates finds the employment they want upon graduation and progress into rewarding careers in management, quality assurance, quality control, consultancy, program planning, research and product development,

## Faculty of Livestock Fisheries and Nutrition

Established as a new faculty in Wayamba University of Sri Lanka on 17th August 2007, the Faculty of Livestock, Fisheries, and Nutrition is the pioneer of its kind in South Asia, where a full-fledged degree program is carried out, largely focused on Food and Nutrition. Though the faculty is young, it possesses the potential and capacity, so that it guarantees the best higher education that any local university would offer in the relevant stream. The faculty comprises four departments which offer majors in four emerging areas in scientific studies that have a greater demand in both local and international job market. The departments are namely Department of Food Science and Technology, Department of Applied Nutrition, Department of Aquaculture and Fisheries and the Department of Livestock and Avian Sciences. Led by well qualified, trained and experienced staff, the course modules are collectively aimed at giving you a well-balanced knowledge of each specializing area that would prepare yourself to be an outstanding contestant in the job market. It further widens the spectrum of opportunities that you would choose, to continue with your dream profession or higher studies. Easy access to the worldwide online knowledge via IT unit keeps you aligned with the



latest knowledge updates while the university's library provides you a great archive of knowledge available at hand all the time. Laboratories armed with the most modern equipments assist you to carry out your practicals and



research work at professional standards. The higher attention given to the practical component and the industrial exposure contributes to further sharpening of the theories learned.



## About Us!

Wayamba is a major contributor to the GNP of Sri Lanka. Wayamba Province, a part of the coconut triangle, is the main supplier of coconut export of the nation. Poultry and milk production is mainly centered in Wayamba province and thereby 2/3 of the total livestock production is generated in the Wayamba province. The western coast of the Wayamba province is endowed with rich fisheries and other aquatic resources. Kalpitiya, Chilaw, and Puttalam areas are a hive of fisheries activities.



Wayamba also takes pride in being the outstanding province for prawn culture with 90% of the total aquaculture production of the country. The many industries in the Wayamba province have given birth to a number of food processing and production centers. Coconut processing, seafood processing, prawn processing, milk production and industries of related products are prominent among them.



### Our Vision and Mission

Achieve excellence and recognition in higher education, research and developing technologies in its mandated areas.

Produce graduate with knowledge skills and competence to meet urgent national needs in the important field of food and nutrition with a special emphasis on livestock and fisheries sector and to develop research and outreach.

## Dean's Message



The government of Sri Lanka recognizing the emerging needs of the food and nutrition sector has established the faculty of Livestock, Fisheries, and Nutrition in the Wayamba University of Sri Lanka. The faculty offers a four-year special degree program with the option to specialize in Food Science and Technology, Nutrition, Aquaculture and Fisheries, and Livestock and Avian Sciences. The curriculum is focused on both theoretical and practical aspects of food and nutrition sector. It also helps to develop management, administrative, research design and planning, as well as investigation, communication, and interpersonal skills of the graduates. The graduate is well equipped with tools and knowledge for competitive advantage in entry to the world of work and for the development of own entrepreneurship. The food science and nutrition degree gives you a great choice for you to be employed in government and private sector institutions in capacities such as administrative, management, research, academic, consultative, advisory and policymaking.

## Vice Chancellor's Message



Wayamba University of Sri Lanka was established in 1999 and this marked the commencement of the faculty of Livestock, Fisheries, and Nutrition and the new degree program in Food Science and Nutrition. I am extremely delighted to see that a dream many of us cherished for years finally being realized with the establishment of the faculty. However great institutes of learning cannot be created overnight. They need careful nurturing, constant support, visionary leadership and committed staff. I see these conditions are fulfilled to a great extent for the faculty to grow and to be established as a Centre of Excellence. This faculty-student population is diverse and comprises youth from all districts of the island. The strong commitment and constant effort by the staff to improve its curriculum and smooth delivery of its so established vigorous and innovative curriculum should be appreciated. The students at the faculty are inspired and challenged to achieve their academic aspirations by highly qualified academic staff with a substantial industrial and research experience. The faculty has developed many links with industry and state sector research institutes which in turn help the faculty in designing and developing related courses and appropriate research projects relevant to students.



# The Department of Food Science and Technology



The Department of Food Science and Technology works with the mission of contributing to the society through the pursuit of education in food science, food technology, food quality & safety and all allied sciences in learning, development of skills, synthesizing, application and dissemination of knowledge and meeting international standards in research and teaching at the highest levels of excellence.

Our comprehensive undergraduate programs prepare the students for a wide range of carrier opportunities in the food industry, food services establishments, academia, and government sector through skill development in communication,

marketing, entrepreneurship and project management aiming to uplift the country's food sector.



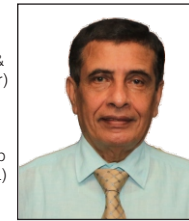
## OUR FACULTY MEMBERS



**Ms. P. M. H. D. Pathiraje**  
Senior Lecturer  
B.Sc. Agric. (Peradeniya, SL), M.Phil. (Peradeniya, SL)  
Reading for Ph.D.  
(Saskatchewan, Canada)



**Prof. (Mrs.) C. V. L. Jayasinghe**  
Professor of Food Science & Technology (Chair Professor)  
B.Sc. (Peradeniya, SL), M.Sc. (J'pura, SL), M.Phil. (J'pura, SL)  
Ph.D. (Tokyo, Japan), PGDip in Counseling (Colombo, SL)



**Prof. T.S.G.Fonseka**  
Emeritus Professor  
B.Sc. (Colombo, SL), M.Sc. (Kelaniya, SL), Ph.D. (Nott, UK)



**Dr. M. S. W. de Silva**  
Senior Lecturer  
B.Sc. (Peradeniya, SL), Ph.D. (Ill Tech., USA), C. Chem. (SL)



**Prof. (Ms) O. D. A. N. Perera**  
Senior Lecturer  
B.Sc. (Peradeniya, SL), M.Phil. (Peradeniya, SL), PhD (Ballarat, Australia)



**Dr. (Ms) S. Jayatilake**  
Senior Lecturer  
B.Sc. Agric. (Peradeniya, SL), M.Sc. (Peradeniya, SL), Ph.D. (Obihiro, Japan)



**Mr. D. N. Liyanage**  
Senior Lecturer  
B.Sc. Agri. (Wayamba, SL), MS (Ill Tech, USA)  
Attorney-at-Law



**Mrs. A M M U Adikari**  
Senior Lecturer  
B.Sc. Agric. (Peradeniya, SL), M.Sc. (Wales, UK), M.Phil. (Peradeniya, SL)



**Ms. V. P. N. Prasadi**  
Senior Lecturer  
B.Sc. Agric. (Peradeniya, SL), PGDip in Applied Statistics (Peradeniya, SL), M.Phil. (Peradeniya, SL), Reading for Ph.D. (Guelph, Canada)



**Dr. K. D. P. P. Gunathilake**  
Senior Lecturer  
B.Sc. Agric. (Peradeniya, SL), M.Sc. (Peradeniya, SL), M.Phil. (Dalhousie, Canada), Ph.D. (J'pura, SL)



**Dr. (Miss) H P S Senarath**  
Senior Lecturer  
B. Sc. in Food Sci. and Nutrition (Wayamba, SL), M.Phil. (Peradeniya, SL)  
Ph.D. (Tokyo, Japan)



**Dr. WDSS Pemasinghe**  
Senior Lecturer  
B.Sc. Hons in Chemistry (Kelaniya, SL)  
Ph.D. in Chemistry (Wayne State, USA)



**Ms. RAC Haily Seneviratne**  
Lecturer (Probationary)  
B.Sc. in Food Science and Technology, M.Phil. (Reading) (Peradeniya, Sri Lanka)  
B.Sc. Agri (Specialization in Food Science & Technology) (Peradeniya, Sri Lanka)



# The Department of Aquaculture and Fisheries



The Department of Aquaculture and Fisheries aims to develop among students both basic and applied science skills through practical-based instruction. Most educational modules are conducted in laboratories and department aquaculture farms. In addition to the in-house teaching and learning process, the department facilitates numerous field visits and out-bound training, allowing students to master different experimental works. The curriculum also exposes them to real-world experiences, including a guided cruise tour for actual sea experience. Students specializing in aquaculture undergo special training in the industry during their final year. This provides them the proper hands-on experience to perform well in the industry after graduation. They are also trained for product development, invention, innovation as well as proper

dissemination of findings both nationally and internationally. The students actively engage in various social and outreach activities with the leading support of Aquatic Resources Explores Society (AqRES) and alumni of the department. Course modules conducted by the Department of Aquaculture are designed to be target-oriented towards the demands of the industry. Our students are known to be communicative, confident and are generally equipped with qualities that employers look out for. The department's strong tie-ups with corporate in the area also give students the edge to secure their dream job upon graduation.

Join hands with us.



## OUR FACULTY MEMBERS



[Dr. R.G.S. Wijesekara](#)  
Head of the department/  
Senior Lecturer  
B.Sc. Agri. (Peradeniya),  
M.Sc. (Thailand) PhD  
(Japan)



[Dr. \(Mrs\) S. Jayakody](#)  
(Senior Lecturer)  
B.Sc. (Kelaniya, SL),  
Postgraduate Dip in  
Wildlife Mgt., PhD (UK)



[Dr. W.M.H.K. Wienayake](#)  
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B.Sc. (Kelaniya, SL), PhD  
(Kelaniya, SL), Dip in  
Agri. (SL)



[Dr. Dileepa de Croos](#)  
(Senior Lecturer)  
B.Sc. (Colombo, SL),  
M.Sc. (Kelaniya, SL)  
PGDBM (Colombo, SL)  
CTHE/ SEDA (UK), PhD  
(Iceland)



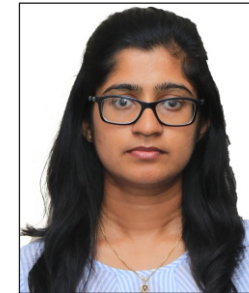
[Dr. A.G.S.S. Darshani](#)  
Senior Lecturer  
B.Sc. in Fisheries &  
Marine Science (Ruhuna,  
SL), M.Sc. (Bodo,  
Norwa), PhD (Tokyo,  
Japan)



[Mr. G.A. Harsha S. Chathuranga](#)  
(Lecturer: probationary) -  
B.Sc. in Fisheries &  
Marine Science (Ruhuna,  
SL)  
Reading for M.Sc.  
(Auburn, USA)



[Ms. Sucheema  
Gonapinuwalla](#)  
(Lecturer: probationary)  
B.Sc. in Food Sci. & Nutr.  
(Wayamba SL), M.Sc.  
(Peradeniya, SL)



[MS. C.C. Walpita](#)  
(Lecturer: probationary)  
B.Sc. in Food Production  
& Technology  
Management  
(Wayamba, SL), M.Sc.  
(Ghent, Belgium)

# The Department of Livestock and Avian Sciences



The demand for livestock products has increased dramatically in recent years and this trend is expected to continue in the next two decades. The need for qualified personnel not so much in primary farm-level production but the post-harvest handling and processing of milk and meat is now felt as an urgent need. The courses offered by this department will complement food production and technology management and enable them to obtain specialized knowledge in foods as well as other products

originating from domestic animals. Being the super educational institute located in the area, and considered as heart of the livestock production in Sri Lanka, we aim to provide high-quality educational programs and experiences, and excellent scholarships and services to the community focused on livestock production and their products. Department provides the opportunity to obtain a meaningful Bachelor of Food Production and Technology Management degree that will serve the individual and the country well

in years to come.



## OUR FACULTY MEMBERS



Mr. W.A.D.V. Weerathilake  
(Head of the department/  
Senior Lecturer)  
B.Sc. Agric (Peradeniya, SL), M.Phil. (Peradeniya, SL), PGDBM, Reading for Ph.D. (Wayamba, SL)



Prof. B.P.A. Jayaweera  
(Dean, Faculty of Livestock, Fisheries & Nutrition)  
B.Sc. Agric (Peradeniya, SL), M.Phil. (Peradeniya, SL), SEDA (UK) CTHE (Colombo, SL)



Dr. Gamika Prathapasinghe  
Senior Lecturer  
B.V.Sc. (Peradeniya, SL), M.Sc. (Memorial, Canada)  
Ph.D. (Manitoba, Canada)



Dr. (Mrs.) J.M.K.J.K. Premarathna  
Senior Lecturer  
B.V.Sc. (Peradeniya, SL), M Phil (Peradeniya, SL)  
Ph.D. (Putra Malaysia, Malaysia)



Mrs. H.N.N. Dirukshi  
(Senior Lecturer )  
B.Sc. Food & Nutrition (Wayamba, SL) M.Sc. (Peradeniya, SL)  
M. Phil. (Wayamba, SL)



Mr. K.A.H.T. Kodithuwakku  
(Lecturer Probationary)  
B.Sc. Agric. Tech. Mgt.(Peradeniya, SL)  
Reading for Ph.D. (Japan)



Mrs. D.I. Abeygunawardana  
(Lecturer Probationary)  
B.Sc. Food & Nutrition (Wayamba, SL), M.Sc. (Peradeniya, SL), Reading for M.Phil. Degree (Wayamba, SL)



Mr. Dilan Dissanayake  
(Lecturer Probationary)  
B.Sc. (Agric. Tech. and Mgt.) (Sp., Hons.) (Peradeniya, SL), M.Sc. (Kyushu, Japan)



# The Department of Applied Nutrition



The Department of Applied Nutrition is the first and the only academic department in Sri Lankan state university system in Human Nutrition. It is one of the pioneering contributors for the B.Sc. in Food Science and Nutrition degree offered by the faculty. The department makes the Food Science and Nutrition graduates of Wayamba University distinctive from other food science graduates in the country by imparting intellectually demanding competency in nutrition. Nutritional sciences integrate the principles of biology, chemistry, and social sciences to interpret the complex relationship between diet and human health at basic to applied level ranging from molecular and cellular nutrition, nutritional biochemistry to public health nutrition. The curricula encompass essential skills and competency in clinical nutrition and dietetics and public health and community nutrition. The

graduates with Applied Nutrition specialization are qualified to be nutritionists and employed by the government and private sector in the food industry, health care, education, research, and community development. Complemented with further study and training, specialization in applied nutrition is the shortest pathway to becoming a registered dietitian in Sri Lanka. The department holds the pride of producing qualified dietitians who successfully practice in both local and foreign clinical settings. The unique mission of the department further extends to the improvement of nutrition and health status of the population in Sri Lanka not only via excellence in nutrition teaching and research, but also by training, community work and outreach activities. Moreover, the Department of Applied Nutrition provides technical guidance and consultations for the food and nutraceutical industry and local and

international public and private sector organizations as a responsible partner in human nutrition of the local, regional and international communities.



## OUR FACULTY MEMBERS



**Dr. (Mrs) Kumari M. Rathnayake**  
(Head of the Department/Senior Lecturer)  
B.Sc. in Nutrition (Wayamba, SL), M Phil Food & Nutrition (Peradeniya, SL), Ph.D. (Reading, UK)



**Prof. Renuka Silva**  
Senior Lecturer  
B.Sc. Agric. (Peradeniya, SL), Ph D. (UK), R. Nutr.



**Prof. (Mrs) G. Anoma P. Chandrasekara**  
Senior Lecturer  
B.Sc. Agric (Peradeniya, SL), M.Phil. in Food & Nutrition (Peradeniya, SL), Ph.D. (Memorial, Canada), SEDA (UK)



**Dr. Ananda Chandrasekara**  
Senior Lecturer  
B.Sc. Agric (Peradeniya, SL), M.Sc. in Food & Nutrition (Peradeniya, SL), Ph.D.(Sydney, Australia), Registered Medical Officer (SLMC1813) R Nutr (Australia)

Registered Medical



**Mrs. AMNT Adikari**  
Senior Lecturer  
B.Sc. Human Biology (J'pura, SL), M.Sc. in Nutrition & Dietetics (Mohidol, Thailand), Reading for Ph.D. (Peradeniya, SL) Reading for PhD (P'niya, SL)



**Ms. RMTK Ranathunga**  
Senior Lecturer  
B.Sc. in Nutrition (Wayamba, SL), M.Phil. in Food & Nutrition (Peradeniya, SL), Reading for Ph.D. (New Castle, UK)



**Dr. GJM Nanayakkara**  
Senior Lecturer  
B.Sc. in Food Sci. & Nutrition (Wayamba, SL), M.Phil. (Peradeniya, SL) Ph.D. (Deakin, Australia)



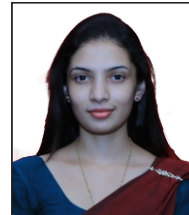
**Ms. MSF Sirasha**  
Senior Lecturer  
B.Sc. in Food Sci. & Nutrition (Wayamba, SL), M.Sc. (Peradeniya, SL), Reading for Ph.D. (Griffith, Australia)



**Dr. HP Gunawardena**  
Senior Lecturer  
B.Sc. in Food Sci. & Nutrition (Wayamba, SL) Ph.D. (Peradeniya, SL)



**Dr. T Perera**  
Senior Lecturer  
Ph.D. (Oregon State University, USA), M.Sc. (Peradeniya, Sri Lanka) B.Sc. Agri (Agricultural Economics and Business Management) (Peradeniya, Sri Lanka)



**Ms. J.I.K. Hettiarachchi**  
Lecturer  
B.Sc. in Food Sci. & Nutrition (Wayamba, SL), R. Nutr. M.Sc. (Peradeniya, SL)

# How will you be taught ?

You will follow a four-year special degree program, which consists of eight semesters. In the first two years of the degree program, you will be offered a common foundation program that will introduce you to the fundamentals and will cover a general but wide area of course-related sciences. During the latter two years, whilst following some compulsory courses in food and nutrition, you can specialize in one of four study areas namely food science and technology, applied nutrition, aquaculture and fisheries, and livestock and avian sciences. A research project and industrial training in the area of specialization is included as part of the study program. The common program offered during the first two years includes basic courses

such as Instrumental Chemistry, Information Technology, Economics, Management, Marketing, Accountancy, and Statistics as well as shared courses such as Fish biology, Breeding and Reproduction, Microbiology and Physiology. The courses offered in the latter two years will be of a more applied nature, which together with the course in Industrial Training will enable you to learn to fit into a job environment. The medium of instruction will be English. This would be a great advantage in the competitive job market, The academic program is not solely aimed at acquiring subject-related knowledge. It is designed to identify and develop true potentials and soft skills of undergraduates. This includes the development of leadership

skills, interpersonal skills, analytical skills, decision-making skills, advanced writing skills, presentation skills, etc. Several modules are offered incorporated with IT and computer-related applications and hands on training on analytical software packages ensuring the degree program offered by the university is on par with modern trends. This would credit the students with more job opportunities in both the private and government sectors within Sri Lanka as well as abroad.

# What will you be taught ?

## B.Sc. in Food Production & Technology Management Degree Program

Year 1		Year 3	
Semester 1	Semester 2	Livestock & Avian Sciences Specialization Programme	
Chemistry I Laboratory Course in Chemistry Anatomy & Physiology Aquatic Animal Biology & Aquaculture Principles Mathematics & Computing Introduction to Information Technology English for Science I	Special Assignment Concepts & Practice of Statistics Crop Science & Agronomy Fundamentals of Human Nutrition Nutritional Biochemistry & Principles of animal nutrition Marine & Brackish Water Fish Production Social Harmony & Conflict Resolution English for Science II	Semester 1	
		Animal Breeding & Selection	Compulsory
		Animal Feed Technology	Compulsory
		Practicum I	Compulsory
		Principles of Animal Disease	
		Control & Diagnostic Technology	Compulsory
		Poultry Breeding & Parent stock Management	Compulsory
		Egg Science & Technology	Elective
		Farm Mechanization & Engineering	Elective
		Farm Planning & Economics	Elective
		Forage Science & Range Management	Elective
		Micro Livestock Production & Management	Elective
		Pet Animal Nutrition & Feed Formulation	Elective
		Goat & Sheep Production & Management	Elective
		Special Topics in Animal Science	Elective
		Crustacean & Molluscs Farming Systems	Elective
Year 2			
Semester 1	Semester 2		
Microbiology Principles of Food Science Poultry, Meat & Egg production Social Harmony & Conflict Resolution Principles of Food Crop Production I Academic English I	Farming & Environment Food Analysis & Quality Assurance Food Processing & Preservation Technology Information Systems & Data Handling Academic English II		



# What will you be taught ?

## B.Sc. in Food Production & Technology Management Degree Program

### Year 3

Livestock & Avian Sciences Specialization Program	
Semester 2	
Dairy & Beef Production & Management	Compulsory
Animal Experimentation	Compulsory
Practicum II	Compulsory
Swine Production & Management	Compulsory
Food Inspections & Evaluation	Compulsory
Waste Management & Utilization	Compulsory
Animal By-product Technology	Elective
Meat Science	Elective
Animal Biotechnology	Elective
Dairy Product Quality Control & Processing	Elective
Wildlife & Recreational Animal Management	Elective
Community Link (LinkCom)	Compulsory
Post-harvest Technology of Major Food Crops	Compulsory
Fruit & Vegetable Production	Elective
Food Packaging	Elective
Food Safety & Quality Management	Elective
Fish, Meat & Egg Product Technology	Elective
Indigenous Food Technology	Elective
Aquatic Pathobiology & Health Management	Elective
Post-harvest Management of Bio-aquatic Resources	Elective
Remote Sensing & GIS	Elective

### Year 3

Aquaculture & Fisheries Specialization Program	
Semester 1	
Freshwater Food Resources Management & Limnology	Compulsory
Crustacean & Molluscs Farming Systems	Compulsory
Seed Production & Seed Quality Management in Aquaculture	Compulsory
Culture of Ornamental Aquatic Fauna & Flora	Elective
Oceanography & Marine Ecology	Elective
Sea Weed & Edible Fresh Water Plant Culture	Elective
Animal Feed Technology	Elective
Principles of Animal Disease Control & Diagnostic Technology	Compulsory
Pet Animal Nutrition & Feed Formulation	Elective
Principles of Food Crop Production II	Elective

Aquaculture & Fisheries Specialization Program	
Semester 2	
Natural Aquatic Resource Management & Fishing Gear Technology	Compulsory
Aquaculture Engineering	Compulsory
Aquatic Pathobiology & Health Management	Compulsory
Post-Harvest Management of Bio-Aquatic Resources	Compulsory
Current Topics in Fisheries & Aquaculture	Elective
Ecotoxicology	Elective
Fish Biotechnology	Elective
Remote Sensing & GIS	Elective

Food Packaging	Elective
Dairy and Beef Production & Management	Elective
Dairy Product Quality Control & Processing	Elective
Food Inspections & Evaluation	Compulsory
Waste Management & Utilization	Elective
Wildlife & Recreational Animal Management	Elective
Community Link (LinkCom)	Compulsory
Post-Harvest Technology of Major Food Crops	Compulsory
Fruit & Vegetable Production	Elective
Food Safety & Quality Management	Elective
Fish, Meat & Egg Products Technology	Elective

### Year 4

Livestock & Avian Sciences Specialization Program	
Semester 1	
Scientific Communication	Compulsory
Research Project in Livestock & Avian Sciences	Compulsory

Semester 2	
In-plant training	Compulsory
Commercial Food Preparation & Service Management	Compulsory
Extension Methodology	Elective
Human Resource Management	Elective
Organizational Management	Elective
Mass Communication	Elective
Entrepreneurship Development	Elective

### Year 4

Aquaculture & Fisheries Specialization Programme	
Semester 1	
Scientific Communication	Compulsory
Research Project in Aquaculture & Fisheries	Compulsory

Semester 2	
In-plant Training	Compulsory
Food Preparation & Service Management	Compulsory
Extension Methodology	Elective
Human Resource Management	Elective
Organizational Management	Elective
Mass Communication	Elective
Entrepreneurship Development	Elective



# What will you be taught ?

## B.Sc. in Food Science & Nutrition Degree Program

### Year 1

Semester 1	Semester 2	Applied Nutrition Specialization Program	
Chemistry I Laboratory Course in Chemistry Principles of Biochemistry & Genetics Food Production Systems I Mathematics & Computing Introduction to Information Technology English for Science I	Chemistry II Biochemistry of Energy & Metabolism Human Physiology Special Assignment Food Production Systems II Concepts & Practice of Statistics Social Harmony & Conflict Resolution English for Science II	<b>Semester 1</b>	
		Nutrition in Lifecycle Diet & Diseases Nutrition Assessment Sociology of Food & Nutrition Public Health & Community Nutrition Functional foods Food Chemistry Dairy Products Technology Sensory Evaluation Biotechnology in Food Science	Compulsory Compulsory Compulsory Compulsory Compulsory Compulsory Compulsory Elective Elective Elective

### Year 2

Semester 1	Semester 2	Semester 2	
Microbiology Principles of Food Science Principles of Food Marketing & Business Economics Introduction to Foods & Nutrition Social Harmony & Conflict Resolution Academic English I	Human Nutrition Food Analysis & Quality Assurance Food Processing & Preservation Technology Information Systems & Data Handling Academic English II	Medical Nutrition Therapy Sports & Exercise Nutrition Nutritional Epidemiology & Research Methods Communication and Health Promotion Food Toxicology Special Topics in Nutrition Food & Beverage Service Management Food Packaging	Compulsory Compulsory  Compulsory Compulsory Elective  Elective Elective

### Year 3

Post-Harvest Technology of Fruits & Vegetables Food Safety & Quality Management Fish, Meat & Egg Products Technology Cereal Chemistry & Bakery Products Technology Community Link (LinkCom)	Elective Compulsory  Elective Elective Compulsory
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### Year 3

Food Science & Technology Specialization Program	
Semester 1	
Food Chemistry Dairy Products Technology Confectionery and Beverage Technology Sensory Evaluation Food Engineering Biotechnology in Food Science Food Product Development Rapid Chemical Sensing Methods Nutrition in Lifecycle Sociology of Food & Nutrition Functional Foods	Compulsory Compulsory  Elective Compulsory Compulsory Compulsory  Elective Compulsory Elective Elective

### Semester 2

Food Microbiology Food Packaging Post-Harvest Technology of Fruits and Vegetables Food Safety and Quality Management Fish, Meat & Egg Products Technology Cereal Chemistry & Bakery Products Technology Spectroscopic Methods for Structure Determination Indigenous Food Technology Food Toxicology Food & Beverage Service Management Community Link (LinkCom)	Compulsory Compulsory Compulsory Compulsory Compulsory Compulsory Compulsory Elective Elective Elective Elective
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### Year 4

Applied Nutrition Specialization Program	
Semester 1	
Scientific Communication Research Project in Applied Nutrition	Compulsory Compulsory
Semester 2	
Field Assignment in Nutrition 3222Practical Dietetics  Human Resource Management Organizational Management Mass Communication Entrepreneurship Development In-plant Training	Compulsory Either NTN 3212 or NTN 3222 Compulsory; Limited enrolment; Either NTN 3212 or NTN 3222  Elective Elective Elective Elective Compulsory; Either NTN 3234 or NTN 3244



## Year 4

### Food Science & Technology Specialization Program Semester 1

Scientific Communication  
Research Project in Food Science &  
Technology

Compulsory

Compulsory

### Semester 2

In-plant Training  
Human Resource Management  
Organizational Management  
Mass Communication  
Entrepreneurship Development

Compulsory  
Elective  
Elective  
Elective  
Elective

## OUR FACILITIES

### Fully fledged Interactive Lecture Theaters

Our modern lecture theaters are arranged in a manner that will enable you to interact efficiently with the lecturer as well as your colleagues. This arrangement brings about the true aspects of student centered learning. All the lecture theaters



are equipped with multimedia and e-learning facilities to ensure an effective learning process of high standards.



## OUR FACILITIES

### Well-Equipped Laboratories

Our well-equipped series of laboratories enable you to obtain a first hand practical exposure in subject areas. Also the required facilities are there to support your research work.



# Biostatistics & Agronomy Unit

Biostatistics Unit was established as a part of the Faculty of Livestock Fisheries & Nutrition in the year 2013. The unit caters to students from both B. Sc. Food Science & Nutrition and Food Production & Technology Management degree programs offering basic as well as advanced course modules related to Statistics, Mathematics & Agronomy. These course modules provide knowledge on fundamental principles & enable students to develop their analytical skills in statistics and mathematics. Biostatistics Unit is also offering course modules to cover the basic scientific principles of agriculture and agronomical aspects with the view of increasing food production and food security.

Students from both degree programs who wish to gain sound experience on statistical applications in food production systems, processes & technology have opportunities to conduct their research in Biostatistics & Agronomy Unit in collaboration with other departments in the faculty as well as with recognized outside institutions. The unit also offers services/course modules/workshops on experimental design & planning to help students in

the final year for successful planning, implementing & completing their undergraduate research projects.

Currently the main research and development efforts in the Biostatistics unit is in collaboration with outside institutions & the departments of the faculty on pattern recognition & image processing for complex biological processes using artificial neural networks, trend analysis in different food production systems, investigating the potential impacts of climate change on national food security & implications of environmental pollution on human health.



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