Faculty of Livestock, Fisheries and Nutrition

PROSPECTUS

Wayamba University of Sri Lanka
Makandura, Gonawila (60170)
Sri Lanka
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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, 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.

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 food management, nutrition, aquaculture, and fisheries. 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.
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.

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 to the world of work and 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.

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 to the world of work and 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.

About Us!

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.
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**

**Mr. V. H. R. D. Pathirage**
Senior Lecturer
B.Sc. Agric. (Peradeniya, SL), M.Phil. (Peradeniya, SL), PhD (Readex, Canada)

**Dr. M. H. de Silva**
Senior Lecturer
B.Sc (Peradeniya, SL), PhD (Ill Tech., USA), C. Chem (SL)

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

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

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

**Ms. V. P. H. Prasad**
Senior Lecturer
B.Sc. Agri. (Peradeniya, SL), M.Sc. (Peradeniya, SL), LACM (Dalhousie, Canada), M.Phil. (Dalhousie, Canada), Ph.D. (Dalhousie, Canada)

**Ms. NAC Kelly**
Senior Lecturer
B. Sc. in Food Science and Technology (Specialization in Food Science & Technology), Sr. Lecturer (Peradeniya, SL)

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

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

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

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

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

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

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

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

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

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

The Department of Applied Nutrition

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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

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

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

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.

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. 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. RMTK Nandakumar
Senior Lecturer
B.Sc. in Food Sci. & Nutrition (Wayamba, SL), M.Phil. (Peradeniya, SL), Ph.D. (Deakin, Australia)

Ms. L.J.K. Hettiarachchi
Senior Lecturer
B.Sc. in Food Sci. & Nutrition (Wayamba, SL)

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

Dr. GJM Nanayakkara
Senior Lecturer
B.Sc. in Food Sci. & Nutrition (Wayamba, SL), M.Phil. (Peradeniya, SL), R. Nutr.

Ms. J.I.K. Hettiarachchi
Lecturer
B.Sc. in Food Sci. & Nutrition (Wayamba, SL), R. Nutr.
You will follow a four-year special degree program, which includes a common foundation program in the first two years of the degree. In the later 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 and project-based and specialized thesis will be required in the last year of the program. The academic program is not solely aimed at acquiring subject-related knowledge, but 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.
### Livestock & Avian Sciences Specialization Program

**Semester 2**
- **Dairy & Beef Production & Management** Compulsory
- **Animal Experimentation** Compulsory
- **Practical Training** 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

### Aquaculture & Fisheries Specialization Program

**Semester 1**
- **Freshwater Food Resources Management & Limnology** Compulsory
- **Crustacean & Molluscs Farming Systems** Compulsory
- **Seed Production & Seed Management in Aquaculture** Elective
- **Cultivation of Ornamental Aquatic Fauna & Flora** Elective
- **Aquaculture Engineering** Elective
- **Aquaculture & Fisheries Biotechnology** Elective
- **Animal Feed Technology** Compulsory
- **Principles of Animal Disease Control & Diagnostic Technology** Compulsory
- **Pet Animal Nutrition & Food Formulation** Elective
- **Principles of Food Crop Production II** Elective

**Semester 2**
- **Natural Aquatic Resource Management & Fishing** Compulsory
- **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
- **Eco-toxicology** Elective
- **Fish Biotechnology** Elective
- **Remote Sensing & GIS** Elective

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

**Year 3**
- **Food Packaging** Elective
- **Dairy and Beef Production & Management** Elective
- **Dairy Product Quality Control & Processing** Compulsory
- **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
- **Indigenous Food Technology** Elective
- **Aquatic Pathobiology & Health Management** Elective
- **Post-Harvest Management of Bio-aquatic Resources** Elective
- **Remote Sensing & GIS** Elective

**Year 4**
- **Scientific Communication** Compulsory
- **Research Project in Aquaculture & Fisheries** Compulsory
- **In-plant Training Compulsory** Commercial
- **Food Preparation & Service Management** Elective
- **Extension Methodology** Elective
- **Human Resource Management** Elective
- **Organizational Management** Elective
- **Mass Communication** Elective
- **Entrepreneurship Development** Elective

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**What will you be taught?**

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

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<th>Year 3</th>
<th>Semester 2</th>
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<tr>
<td><strong>Livestock &amp; Avian Sciences Specialization Program</strong></td>
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<td><strong>Dairy &amp; Beef Production &amp; Management</strong> Compulsory</td>
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**Aquaculture & Fisheries Specialization Program**

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**Food Science & Technology Specialization Program**

**Semester 1**

- Scientific Communication
- Research Project in Food Science & Technology

**Semester 2**

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

**Year 4**

**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.

**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 theFaculty 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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