

**Faculty of Agriculture & Plantation Management  
Wayamba University of Sri Lanka**

**Master of  
Agri-Enterprise & Technology Management**

***Inspiring Demand For Agri-Food Based Enterprises And Technologies.....***

Agricultural education, technology and trade have been the prime movers of economic prosperity in a country Sri Lanka, where a majority of the population is directly or indirectly involved with activities related to agriculture, agri-food business and/or agri-food based technologies. In the light of this, the opportunities for those who are skilled in these concentrations would be in high demand and the employment potential for well-trained skilled personnel would increase from rural to urban setup.

***FAPM of WUSL @ Makandura.... “One Stop Shop” for Advanced Education***

The mandate and prime objective of the Faculty of Agriculture and Plantation Management (FAPM), located at a strategically important location at Makandura, and adjacent to the Negombo – Kurunegala highway, is to supply that human resource to drive the country towards economic development and prosperity. In fact, FAPM is the Faculty of Agriculture that is closest to the capital of Sri Lanka. With this advantage, the FAPM has been emerged as a “one stop shop” for all sort of stakeholders involved in agricultural technology and management, ranging from the undergraduates, the people from the industry and general public who need advice, guidance, research, training and education.

We at the FAPM are dedicated to share the science of applying theory to practice and having a direct impact on the bottom line to the top wherever possible. The vision of the FAPM is to achieve excellence in agricultural education, research, technology and training for developing human resources to meet regional, national and global needs. It operates with its mission of: developing an innovative, skilled, trained manpower and their capabilities in different concentrations in agriculture to fulfill national and global needs through undergraduate and postgraduate education, research and outreach programs.

The focus of above mandate is driven by five departments, viz., Department of Agribusiness Management, Bio-systems Engineering, Biotechnology, Horticulture and Landscape Gardening and Plantation Management. Through these departments, the undergraduate education of the FAPM is strengthen via three well recognized and highly demanding undergraduate degree programs, namely: Bachelor of Science Honours in Agriculture; Bachelor of Science in Technology, and Bachelor of Science in Plantation Management (External).

## **Aims of the M.AETM Degree Program:**

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M.AETM is designed to augment the career trajectory of the professionals and practitioners in the fields of agriculture by improving their ability to apply new and emerging scientific findings and technologies to the advancement and expansion of their disciplines through successful completion of high quality courses designed to support expertise expansion in targeted areas or disciplines (i.e. Concentrations); lively participation in an immersion-based continuous assessments, project-based experiences, and work-integrated learning-based internships etc., and by providing opportunities to disseminate the knowledge gathered through active participation in seminars, outreach/extension programs and/or media.

## **Program Objectives:**

- Prepare students to become experts (i.e. educators, practitioners) in professional fields related to agriculture and of their interest.
- Prepare students to become outstanding leaders and team players in collaborative and interdisciplinary application of their expertise to address local, regional, national and/or global problems associated with agriculture.
- Provide students with an experiential-based learning opportunities in an academic environment supported by student-centered teaching, assessment and learning methodologies and technologies that translate the contents provided in different coursework to reality.

Master of Agri-Enterprise & Technology Management graduates of the Wayamba University of Sri Lanka will be enriched with a multi-disciplinary ‘Knowledge’ on the theories and applications, both well-established and emerging, relevant to those principally concerned areas by the society in terms of agri-enterprise and technology management, including the food security, climate smart agriculture and sustainable agro-environment management, and on an area of their choice of expertise, including the Agri-food Economics & Business, Biosystems Technology, Biotechnology, Food Production & Manufacturing, Landscape Agriculture and Plantation Agriculture, and the ‘Technical and Life Skills’ to apply such knowledge in those areas of interest with ‘Right Attitudes’ and a ‘Mindset’ to work in academic, research and outreach to support achieving the long-term development goals of the country.

**Duration:** One Academic Year consists of 02 Semesters of 15 weeks each based on ‘Course Credit System’

**Total Credits:** 30 Credits contributes to the final grade (GPA course units) and 04 Non-GPA course units (see below).

**Specialization:** Students can select to study on ONE of six Concentrations, including: (1) Agri-Food Economics & Business [AB]; (2) Biosystems Technology [BS]; (3) Biotechnology

[BT]; (4) Food Production & Manufacturing [FM]; (5) Lifestyle Agriculture [LA], and (6) Plantation Agriculture [PA].

### **Entry Qualifications:**

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- Bachelor's degree in Agriculture, Plantation Management or Biosystems Technology OR in the fields of Natural Sciences, Business Studies, Management or Commerce OR
- Recognized Professional Qualification (analogous to a degree stated above) and a minimum of three years' post qualifying working experience in a field related to one of the Concentrations specified, OR
- Any other qualification that is acceptable to the Board of Study and the Senate of WUSL

### **Teaching & Learning Environment**

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An Innovative, Flexible, Relaxing Academic Environment to Foster Postgraduate Learning with its Intended Outcomes.....

- Curriculum is designed to characterize those globally recognized attributes of **'Outcome-Based Education'** (OBE) and an innovative and interactive **'Student-Centered Teaching and Learning Methods'** and **'Formative and Summative Assessment Criteria'**.
- Any student registered with this degree program will have a **'Choice'** of selecting a field/s of specializing an area of study of his/her personal interest – called as Concentration, and within each Concentration, he/she would have several **'Options'** to elect subjects to fulfil minimum criteria to obtain the degree.
- A variety of **Teaching – Learning Methodologies and Technologies**, including group work involving experiential learning (problem based), evaluating case studies, presentations and individual tutorials will be used to develop intellectual skills, practical, professional skills and communication skills. Information and communication technologies would play a significant role in delivering these courses.
- In interactive and expert resource-based **Seminars / Workshops** to enhance **Life and Professional Skills Development and Entrepreneurial Leadership**.
- **Master's Work Integrated Learning** component would ensure the students' ability to apply their knowledge appropriately in commercial enterprises, research and educational institutions, or advisory and regulatory agencies.
- **Integrated Learning Portfolio** and **Master's Seminar** are other novel approaches used in this degree program to make it interactive, student-centered, and then to move into blended learning principles.

### **Key Subject Areas Covered in Common:**

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- Trends & Perspectives in Food & Agriculture
- Climate Smart Agriculture: Concepts & Applications
- Bio Resources & Soil Nutrient Management
- Results-based Project Management & Evaluation
- Food Security & Vulnerability Assessments: Theory & Practice

### **Key Subject Areas Covered Under the Concentrations:**

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#### ***Agri-Food Economics & Business***

- Supply Chain Management in Food & Agribusiness
- Economics of Quality Management in Food & Agricultural Products
- Advanced Trade Policy Analysis
- Applied Demand & Market Analysis
- Modern Marketing Strategy for Agri-Food Business

#### ***Biosystems Technology***

- Instrumentation and Control Applications in Agriculture
- Geo-Informatics for Agriculture and Environmental Management
- Cleaner Production & Green Technologies
- Energy Management for Sustainable Agriculture

#### ***Biotechnology***

- Microbial Resources and Industrial Biotechnology
- Molecular and Omics Biology
- Plant Biotechnology for Advancement in Agriculture
- Animal Biotechnology and Bioethics
- Computational Biology

#### ***Food Production & Manufacturing***

- Advanced Food Processing and Preservation Technologies
- Plant Bioactive Compounds and Human Health Benefits

- Sustainable Fisheries and Aquaculture Product Management
- Managing Postharvest Longevity of Agricultural Produce
- Chemical Residue Free Agricultural Production

### ***Lifestyle Agriculture***

- Modern Postharvest Technology
- Environmental Horticulture
- High Yielding Farming
- Seeds and Plant Genetic Resources
- Urban Agriculture

### ***Plantation Agriculture***

- Plantation Produce Forecasting and Monitoring
- Spatial Technologies for Plantation Agriculture
- Sustainable Management Process for Certification in Plantations
- Legal Environment for Conflicts Resolution in Plantations
- e-Agriculture Applications for Plantations

### **Course Fee:**

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- Rs. 98,500 (All Inclusive)
- Can be paid in Instalments
- Student Loan Scheme through reputed banks

### **Board of Study**

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Prof. Udith K. Jayasinghe-Mudalige (Director)  
 Prof. Chandana Abeysinghe (Dean / FAPM)  
 Prof. Jagath Edirisinghe (Head / DABM)  
 Dr. Wasantha Gunathilake (Head / DPM)  
 Dr. Prashanthi Perera (Head / DHLG)  
 Dr. Wajira Balasuriya (Head / DBT)  
 Dr. Sarananda Hewage (Head / DBSE)  
 Prof. Kapila Yakandawela (Senate Nominee)  
 Dr. D. R. Gimhani (Academic Coordinator)  
 Dr. Sanathani Ranasinghe (External Member)  
 Dr. Roshan Rajadorai (External Member)

