

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

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

Overview of Program Structure, Content and Options

The duration of the proposed 'Master of Agri-Enterprise & Technology Management' degree [M.AETM] program is **One Academic Year**. The 'Academic Year' consists of 02 Semesters of 15 weeks each and academic program is based on 'Course Credit System', where the students will be assessed continuously throughout the semester (i.e. formative) and end-semester evaluation (i.e. summative) will be held at the end of teaching of each course. The students will be informed about the type and schedule of continuous assessment at the beginning of each course unit.

In order to qualify for the award of degree the prospective student is required to earn a total of **35 Credits**, which contributes to the final grade (GPA course units) and successful completion of all the courses which are not contributed to final grade (i.e. 04 Non-GPA course units). The breakdown of course based on the Semester and Levels is summarized below.

An alpha numeric code is used to identify a course unit. The code consists of four digits prefixed by the two letters, namely MAS, to denote 'Masters'. Then the respective Concentration is denoted, i.e. (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].

The first digit denotes the 'Year' at which the course unit is offered and the second digit denotes the 'Semester' in which the course unit is offered. The third digit denotes the 'Serial Number' assigned for the course unit. The last digit denotes the 'Number of Credits' assigned for GPA course units. For Non-GPA course units, zero (0) has been assigned for the last digit.

Course Schedule

Course Schedule for the proposed M.(AETM) degree program, including the Subjects (Code, Name, GPA/NGPA Credits, Total Contact Hours) for an academic year (i.e. 2 Semesters with 35 Credit Load) to satisfy the SLQF Level 7 to 9 (Note: T: Theory; P: Practical; IL: Independent learning)

Semester I

- All the students **should follow the THREE COURSES** included under the **Functional Expertise Knowledge Segment** in Level 7 – Semester I (i.e. those courses denoted as CC) for 06 Credits.

- Each student **should select FOUR COURSES** included under the **Elective Expertise Knowledge Segment** in Level 7 – Semester I (i.e., those courses specified under six Concentrations denoted as AB, BS, BT, FM, LA, PA) for 12 Credits. The following TWO OPTIONS are available for a student to select these 04 Courses:

- a) TWO COURSES from ANY PREFERRED SINGLE CONCENTRATION (OUT OF SIX) and the OTHER TWO COURSES from ANY OTHER TWO PREFERRED CONCENTRATIONS

OR

- b) FOUR COURSES from ANY FOUR (OUT OF SIX) CONCENTRATIONS of interest (or in other words, only 01 Subject from a Concentration)

[Where the selection may be subject to the approval of the Board of Study with regard to the potential conflicts in parallel teaching sessions, student's knowledge and experience etc.]

- The student **must complete the course** specified under the **Application Competency Development Segment** (Level 7) for 01 Non-GPA Credit.

Semester II

- All the students **should follow the TWO COURSES** included under the **Functional Expertise Knowledge Segment** in Level 7 – Semester II (i.e., those courses denoted as CC) for 05 Credits.
- Each student **should select THREE COURSES** included under the **Elective Expertise Knowledge Segment** in Level 7 – Semester II (i.e. those courses specified under six Concentrations denoted as AB, BS, BT, FM, LA, PA) for 06 Credits. The following TWO OPTIONS are available for a student to select these 03 Courses:
- TWO COURSES from ANY PREFERRED SINGLE CONCENTRATION (OUT OF SIX) and the OTHER COURSE from ANY OTHER PREFERRED CONCENTRATION

OR

- THREE COURSES from ANY THREE (OUT OF SIX) CONCENTRATIONS of interest (or in other words, only 01 Subject from a Concentration).
- The student **must complete the Courses** specified under the **Application Competency Development Segment** (Level 8); **Analytical Competency Development Segment** (Level 9), and the **Industry Exposure Segment** (Level 9) for 06 Credits and 03 Non-GPA Credits.

Subject Code	Subject Name	GPA Credits	NGPA Credits	Contact Hours T: P: IL
SLQF Level 7				
Year 1 - Semester I				
Functional Expertise Knowledge Segment				
MAS-CC 71012	Trends & Perspectives in Food & Agriculture	2	-	30:00:70
MAS-CC 71022	Climate Smart Agriculture: Concepts & Applications	2	-	30:00:70
MAS-CC 71032	Bio Resources & Soil Nutrient Management	2	-	30:00:70
Elective Expertise Knowledge Segment				
Agri-Food Economics & Business Concentration				
MAS-AB 71013	Supply Chain Management in Food & Agribusiness	3	-	40:10:100
MAS-AB 71023	Economics of Quality Management in Food & Agricultural Products	3	-	40:10:100
MAS-AB 71033	Advanced Trade Policy Analysis	3	-	40:10:100
Biosystems Technology Concentration				
MAS-BS 71013	Instrumentation and Control Applications in Agriculture	3	-	40:10:100
MAS-BS 71023	Geo-Informatics for Agriculture and Environmental Management	3	-	40:10:100
Biotechnology Concentration				
MAS-BT 71013	Advanced Industrial Microbiology & Biotechnology	3	-	40:10:100
MAS-BT 71023	Advanced Molecular Plant Pathology	3	-	40:10:100
MAS-BT 71033	Plant Biotechnology for Advancement in Agriculture	3	-	40:10:100
Food Production & Manufacturing Concentration				
MAS-FM 71013	Advanced Food Processing and Preservation Technologies	3	-	40:10:100
MAS-FM 71023	Food Analysis and Quality Management	3	-	40:10:100
MAS-FM 71033	Fisheries and Aquaculture Product Management	3	-	40:10:100
Lifestyle Agriculture Concentration				
MAS-LA 71013	Modern Postharvest Technology	3	-	40:10:100
MAS-LA 71023	Environmental Horticulture	3	-	40:10:100
MAS-LA 71033	High Yielding Farming	3	-	40:10:100
Plantation Agriculture Concentration				

MAS-PA 71013	Advanced Irrigation Management	3	-	40:10:100
MAS-PA 71023	Spatial Technologies for Plantation Agriculture	3	-	40:10:100
MAS-PA 71033	Value Addition and Product Diversification of Export Crops	3	-	40:10:100
Application Competency Development Segment				
MAS-CC 71040	Life & Professional Skills Development I	0	1	10:10:30
Semester I - Total		18	01	220:40:540
Year 1 - Semester II				
Functional Expertise Knowledge Segment				
MAS-CC 72013	Results-based Project Management & Evaluation	3	-	40:10:100
MAS-CC 72022	Food Security & Vulnerability Assessments: Theory & Practice	2	-	30:00:70
Application Competency Development Segment				
MAS-CC 72030	Life & Professional Skills Development II	0	1	10:10:30
Sub Total		05	02	80:20:200
Total SLQF Level 7		23	02	300:60:740
SLQF Level 8				
Year 1 - Semester II (Continued)				
Elective Expertise Knowledge Segment				
Agri-Food Economics & Business Concentration				
MAS-AB 72012	Applied Demand & Market Analysis	2	-	30:00:70
MAS-AB 72022	Modern Marketing Strategy for Agri-Food Business	2	-	30:00:70
Biosystems Technology Concentration				
MAS-BS 72012	Cleaner Production & Green Technologies	2	-	30:00:70
MAS-BS 72022	Energy Management for Sustainable Agriculture	2	-	30:00:70
Biotechnology Concentration				
MAS-BT 72012	Commercial Applications of Plant Tissue Culture	2	-	30:00:70
MAS-BT 72022	Crop Bioinformatics	2	-	30:00:70
Food Production & Manufacturing Concentration				
MAS-FM 72012	Food Innovation and Sensory Evaluation	2	-	30:00:70
MAS-FM 72022	Animal-based food manufacturing Technologies	2	-	30:00:70
Lifestyle Agriculture Concentration				
MAS-LA 72012	Eco-Friendly Agriculture Technologies	2	-	30:00:70
MAS-LA	Urban and Metro Agriculture	2	-	30:00:70

72022				
Plantation Agriculture Concentration				
MAS-PA 72012	Ecosystem Management in Plantations	2	-	30:00:70
MAS-PA 72022	Green Agriculture: Principles, Processes and Prospects	2	-	30:00:70
Application Competency Development Segment				
MAS-CC 72031	Integrated Learning Portfolio (ILP)	1	0	00:00:60
MAS-CC 72040	Entrepreneurial Leadership	0	2	20:20:60
Sub Total for SLQF 8		07	02	80:20:260
Total for SLQF 7 & 8		30	04	380:80:1000
SLQF Level 9				
Year 1 - Semester II (Continued)				
Analytical Competency Development Segment				
MAS-CC 72052	Master's Seminar on Topical Issues in the World of Food & Agriculture	2	0	00:00:100
Industry Exposure Segment				
MAS-CC 72063	Master's Work Integrated Learning (WIL)	3	0	00:00:300
Sub Total for SLQF 9		05	00	
Total Credits (SLQF 7, 8 & 9)		35	04	380:80:1400