## 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 30 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 identity 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 30 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 THREE 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 <u>09 Credits</u>. In doing so, the student possesses the options of selecting: (a) ALL THREE COURSES from ANY SINGLE CONCENTRATION <u>OR</u> (b) TWO COURSES from ANY SINGLE CONCENTRATION and the OTHER COURSE from ANY OTHER CONCENTRATION of interest (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 TWO 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 <u>04 Credits</u>. In doing so, the student possesses the options of selecting: (a) BOTH COURSES from the SAME CONCENTRATION that he/she has selected subjects in Semester I <u>OR</u> (2) ONE COURSE from the SAME CONCENTRATION that he/she selected subjects in Semester I and the OTHER COURSE from ANY OTHER CONCENTRATION of interest (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 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 Le	SLQF Level 7				
Year 1 -	Year 1 - Semester I				
Functional Expertise Knowledge Segment					
MAS-CC	Trends & Perspectives in Food &	2	ı	30:00:70	
71012	Agriculture				
MAS-CC	Climate Smart Agriculture: Concepts &	2	ı	30:00:70	
71022	Applications				
MAS-CC	Bio Resources & Soil Nutrient	2	-	30:00:70	
71032	Management				

Elective Expertise Knowledge Segment				
Agri-Food	Economics & Business Concentration			_
MAS-AB 71013	Supply Chain Management in Food & Agribusiness	3	ı	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	<u> </u>		
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
Biotechnol	ogy Concentration			•
MAS-BT 71013	Microbial Resources and Industrial Biotechnology	3	ı	40:10:100
MAS-BT 71023	Molecular and Omics Biology	3	ı	40:10:100
MAS-BT 71033	Plant Biotechnology for Advancement in Agriculture	3	-	40:10:100
Food Prod	uction & Manufacturing Concentration			
MAS-FM 71013	Advanced Food Processing and Preservation Technologies	3	-	40:10:100
MAS-FM 71023	Plant Bioactive Compounds and Human Health Benefits	3	-	40:10:100
MAS-FM 71033	Sustainable Fisheries and Aquaculture Product Management	3	-	40:10:100
Lifestyle A	griculture Concentration			
MAS-LA 71013	Modern Postharvest Technology	3	ı	40:10:100
MAS-LA 71023	Environmental Horticulture	3	ı	40:10:100
MAS-LA 71033	High Yielding Farming	3	-	40:10:100
Plantation	Agriculture Concentration			
MAS-PA 71013	Plantation Produce Forecasting and Monitoring	3	ı	40:10:100
MAS-PA 71023	Spatial Technologies for Plantation Agriculture	3	-	40:10:100
MAS-PA 71033	Sustainable Management Process for Certification in Plantations	3	-	40:10:100
Application Competency Development Segment				
MAS-CC 71040	Life & Professional Skills Development I	0	1	10:10:30
	Semester I - Total	15	01	220:40:540
Year 1 - Semester II				
Functional Expertise Knowledge Segment				

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MAS-CC 72013	Results-based Project Management & Evaluation	3	-	40:10:100
MAS-CC	Food Security & Vulnerability	-		20.00.70
72022	Assessments: Theory & Practice	2	-	30:00:70
Applicatio	n Competency Development Segment		1	-
MAS-CC		0	1	10 10 20
72030	Life & Professional Skills Development II	0	1	10:10:30
	Sub Total	05	02	80:20:200
GT 05 T	Total SLQF Level 7	20	02	300:60:740
SLQF Le				
	Semester II (Continued)			
	xpertise Knowledge Segment			
Agri-Food	Economics & Business Concentration		_	
MAS-AB 72012	Applied Demand & Market Analysis	2	-	30:00:70
MAS-AB	Modern Marketing Strategy for Agri-Food	2		30:00:70
72022	Business	2	_	30.00.70
Biosystems	Technology Concentration			_
MAS-BS 72012	Cleaner Production & Green Technologies	2	-	30:00:70
MAS-BS	Energy Management for Sustainable	2		20.00.70
72022	Agriculture	2	-	30:00:70
Biotechnol	logy Concentration			
MAS-BT 72012	Animal Biotechnology and Bioethics	2	-	30:00:70
MAS-BT 72022	Computational Biology	2	-	30:00:70
Food Production & Manufacturing Concentration				
MAS-FM	Managing Postharvest Longevity of	2		20.00.70
72012	Agricultural Produce	2	-	30:00:70
MAS-FM	Chemical Residue Free Agricultural	2		30:00:70
72022	Production	Z	_	30:00:70
	griculture Concentration			
MAS-LA 72012	Seeds and Plant Genetic Resources	2	-	30:00:70
MAS-LA 72022	Urban Agriculture	2	-	30:00:70
Plantation	Agriculture Concentration			
MAS-PA	Legal Environment for Conflicts	2		20.00.70
72012	Resolution in Plantations	2	-	30:00:70
MAS-PA 72022	e-Agriculture Applications for Plantations	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
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	Sub Total for SLQF 8	05	02	80:20:260	
	Total for SLQF 7 & 8	25	04	380:80:1000	
SLQF Level 9					
Year 1 -	Year 1 - Semester II (Continued)				
Analytical Competency Development Segment					
MAS-CC	Master's Seminar on Topical Issues in the	2	0	00:00:100	
72052	World of Food & Agriculture	2	U	00.00.100	
Industry Exposure Segment					
MAS-CC	Mostor's Work Integrated Learning (WIL)	3	0	00:00:300	
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)	30	04	380:80:1400	