Minor: Smart Agri-Food Value Chains AAVC						
Coordinato	r	BUP	Study Points		15	
Elements	ECTS	Course	Mode of Exam	Period	Literature	
AVVC01		Company Project or			Martindale, W., Duong, L., & Jagtop, S. (2022). Food industry 4.0: unlocking advancement opportunities in the food manufacturing	
	5	Internship	Assessment	2	sector. CABI.	
AVVC02	5	Applied Research Project	Assignment	2	Martindale, W., Duong, L., & Jagtop, S. (2022). Food industry 4.0: unlocking advancement opportunities in the food manufacturing sector. CABI.	
AVVC03	5	Theory	Exam	1	Martindale, W., Duong, L., & Jagtop, S. (2022). Food industry 4.0: unlocking advancement opportunities in the food manufacturing sector. CABI.	

Pre-requisites	Completed three years of a business or engineering or related bachelor degree program.			
Professional Task	Researcher, engineer, consultant, manager			
Professional Role	Precision Agriculture Specialist Agri-food Digital Transformation Consultant Agricultural Automation Engineer Agri-food Supply Chain Manager Sustainable Agriculture Technologist Agri-food Process Control Engineer			
Method of Instruction	Asynchronous lessons and class work online.			
Learning Objectives				
Company Project or Internship	 The student can decide one of two options a) company project with real life company, or b) internship related to industry 4.0 in agri-food systems. The student will understand how to enable digital transformation while operating within a company and throughout the entire supply chain. 			
Applied Research Project	• The student is able to apply the theory towards a applied research project, at their internship companies, company project, or a research provided by a professorship.			
Theory	 The student understand key trends and technologies in industry 4.0 in agri-food systems The student can identifying barriers and success factors for industry 4.0 in agri-food systems The student understand and can analyse the potential of emerging digital technologies in food supply chains The student can analyse a companies process of digital transformation and align it to readiness levels. 			

	 The student can perform requirements engineering tactics. The student can role out feasibility studies The student can identify how industry 4.0 technology will impact sustainability in the agri-food system. The student will be able to understand a systems approach and apply basic food system mapping. 			
Aeres-competencies:				
To present (level 3)				
• To research (level 3)				
To innovate (level 3)				
End qualifications				
Management of organizations, processes and project and people				
Optimizing logistics and managing the quality in agri-food chains				
Mode of instruction:				
This course will be offered in a blended format. Classes will be organised every second week, online and in the				
classroom. Coaching	classroom. Coaching will be offered weekly. The internship is a minimum of two days per week for 14 weeks.			