Module name:	ing and Mathematics (STEM)				
Module-level, if applicable:	Bachelor				
Code:	MA100				
Subheading, if applicable:	-				
Classes, if applicable:	-				
Semester:	1 st				
Module coordinator:	Dr. Ida Kaniawati, M.Si				
Lecturer(s):	Lecturer Team of STEM				
Language:	Bahasa Indonesia				
Classification within the curriculum:	Compulsory course / Core Expertise Courses of Faculty (MKKF)				
Type of Teaching	Contact hours per week during the semester	Class Size			
 Lecture (expository method, discussion, presentation, simulation). Structured activity: exercise (assignments based on conceptual, contextual and problem-solving approaches) Self-study: Project (Creating design/prototype of solution) 	150 minutes	30			
Workload:	The total workload is 136 hours/8160 minutes (4.8 ECTS) per semester, consisting of 2100 minutes (1.24 ECTS) lectures, 1260 minutes (0.74 ECTS) exercise, 2280 minutes (1.34 ECTS) structured activities, 2520 minutes (1.48 ECTS) self-study per week for 16 weeks.				
Credit points:	4.8 ECTS (3 SKS), 1 SKS = 1.6 ECTS				
Prerequisites course(s):	None				
Course Learning Outcomes:	 After taking this course the students have ability to: CLO1. Aware and tolerance to real-life problems. CLO2. Literate in Mathematics, Science, Technology, and Engineering CLO3. Solve social, economic, and environment problems critically, creatively, integrative, and multidisciplinary. CLO4. Decide in solving problem by considering the local, national, and global challenges CLO5. Collaborate skills in group activities to achieve the goals. CLO6. Communicate actively and effectively 				
Content: Food sustainability and Transportation sustainability					

	The final mark will be weight as follow:								
	No	CLO	Assessment Object	Assessment Techniques	Weight (%)				
	1	CLO2,	Subject Specific competence: a. Group assignments	Worksheet	20				
Study/exam achievements:	2	CLO1, CLO3, CLO4	Generic and social competence: a. Group assignments	Communication skills Product	15 20				
	3 CLO5-6		b. Peer assessment	Performance	15				
		-	Total		100				
		• •							
Forms of media:					JPI				
Literature:	 Powerpoints, zoom meeting, Board, LCD Projector, Laptop/Computer, stream video conference, LMS SPOT UPI Osman, Amina & Ladhani, Sultana & Findlater, Emma & Mckay, Veronica. (2017). A Curriculum Framework for the Sustainable Development Goals First Edition. Arifin,B., Noer Azam, Achsani Drajat Martianto, Linda Karlina Sari, and Ahmad Heri. Firdaus. (2018). Modeling the Future of Indonesian Food Consumption: Final Report. Jakarta: Bappenas, WFP & FAO. Commission, E. (2001). A Framework for Indicators for the Economic and Social Dimensions of Sustainable Agriculture and Rural Development Dillemuth,A. (2016). Growing Food Connections Partnership. Planning & Policy Brief FAO United Nations. (2017). The future of food and agriculture: Trends and challenges. Food and Agriculture Organization of the United Nations. Retrieved from http://www.fao.org/3/a-i6583e.pdf Food and Agriculture Organization. (2019). Moving Forward on Food Losses and Waste Production. The State of Food and Agriculture Gabriel, A. S., Ninomiya, K., & Uneyama, H. (2018). The role of the Japanese traditional diet in healthy and sustainable dietary patterns around the world. Nutrients, 10(2). https://doi.org/10.3390/nu10020173 . Hanh, Nguyen. (2018). Sustainable food systems Concept and framework. FAO. Critical Issues in Transportation (2018). Transportation Research Board. https://doi.org/10.17226/25314 								

PLO and CLO mapping

	BC-1	BC-2	BC-3	BC-4	BC-5	BC-6	BC-7	BC-8	BC-9	BC-10	BC-11	BC-12
CLO1							\checkmark				\checkmark	
CLO2	\checkmark						\checkmark	\checkmark			\checkmark	
CLO3	\checkmark						\checkmark	\checkmark			\checkmark	
CLO4	\checkmark						\checkmark				\checkmark	
CLO5	\checkmark						\checkmark	\checkmark				
CLO6	\checkmark						\checkmark	\checkmark				