MODULE HANDBOOK

Module Name	Food Chemistry				
Module level	Bachelor				
Abbreviation, if applicable					
Sub-heading, if applicable	-				
Course included in the	-				
module, if applicable	-				
Semester/term	7 th /Fourth Year				
Module coordinator(s)	Dr. Prima Retno Wikandari, M.Si				
Lecturer(s)	Prof. Dr. Lenny Yuanita, M.Si; Mirwa Adiprahara, S.Si., M.Si				
Language	Indonesian				
Classification within the	Compulsory Course				
Curriculum					
Teaching format/class	2 hours lecturers (50 min per hours)				
hours per week during the					
semester:					
Workload:	1 CU for bachelor degree equals to 3 workhours per week or 170 minutes (50' face to face learning, 60' structured learning, and 60' independent learning). In one semester, courses are conducted in 14 weeks (excluding mid and end-term exam). Thus, 1 CU equals to 39.67 workhours per semester. One CU equals to 1.59 ECTS.				
Credit points:	2 CU = 2 x 1.59 = 3.18 ECTS				
Prerequisites course(s):	Biochemistry (Structure and Function of Biomolecules)				
Targeted learning outcomes:	 Students capable to demonstrate knowledge related to theoretical concepts about structure, composition, and properties of food ingredient as well as the basic principle of the chemical and physical changes of food ingredients during processing and storage. Able to apply the knowledge obtained in the field of food chemistry, and have the initiative to resolve public issues in the food sector. Applying logical, critical, systematic and innovative thinking in the context of development or implementation of food science, that regards and applies humanities in accordance with food chemistry in solving problems Capable to make decisions based on data/information in order to complete their responsibility assignment and evaluate the performance that has been done both individually and in groups, have an entrepreneurial spirit with environmental insight 				
Content:	Introduction scope of food chemistry, food composition,				
	structure and properties, the positive and negative effect of				
	food processing, the types of food processing				
	Structure and properties of food				
	a. structure of amino acid, peptide and protein, amfoter,				
	salting out, salting in, protein solubility, swelling,				
	gelling, foaming, emulsifier				
	gonnig, rounning, onfursition				

Fennemas,	Food Chemistry	2007. 4	th Edition,	edited by	
Srinivasan Damodaran, CRC Press .					