Module Name	Food Physical Chemistry
Module Level, if applicable	Intermediate
Code if Applicable	120225436
Subtitle, if applicable	-
Courses, if applicable	120225436 Food Physical Chemistry
Semester(s) in which the	4th
module is taught	
Person responsible for the module	Dahlia Elianarni, S.TP., M.Sc
Lecturer	Dahlia Elianarni, S.TP., M.Sc
Language	Indonesian
Relation to curriculum	Compulsory Course for undergraduate program in the Food Technology Department, Faculty of Agriculture and Animal Science
Type of teaching	Lecture, Project
Workload	 Lecture: 2 SKS X 50 minutes X 16 weeks Project: 2 SKS X 60 minutes X 16 weeks Independent learning: 2 SKS X 60 minutes X 16 week
Credit points	2 SKS X 1.5 = 3 ECTS
Requirements according to the examination	1. Registered in this course
regulations	2. Minimum 80% attendance in this course
Recommended prerequisites	Basic Chemistry and Basic Physic
Module Objectives (Intended learning outcomes)	 On successful completion of this course, the student should be able to: Provide a comprehensive understanding of the physical principles that govern the behaviour of food components and systems. Gain insight into the properties, structure, and behaviour of food molecules and their interactions. This knowledge is essential for understanding various food processing techniques, product development, and quality control in for the sustainability of the food industry.
Module Content	This course presents chemistry and physical systems in food, colloidal, rheology, water activity, and kinetic reaction.
Study and examination requirements and forms of examination	Cognitive: Midterm exam, Final exam, Quizzes, Assignments Psychomotor: Practice Affective: Assessed from the element /variables achievement, namely (a) Contributions (attendance, active,

	role, initiative, and language), (b) Being on time, (c) Effort.
Media employed	Classical teaching tools with whiteboard and PowerPoint presentation
Recommended Literature	 For Class A. Compulsory 1. HD. Belitz, W. Grosch, and P. Schieberle. 2009. Food Chemistry. Springer. 2. M.A. Rao and R. Rizvi . 2008. Food Science: Principles and Practice. Springer 3. H. Schubert and R. J. P. Williams. 2012. Food Physics: Physical Properties - Measurements and Applications. Wiley- Blackwell.
	 B. Option L. Brady, R. R. Weil, and D. R. R. Williams 1988. Introduction to Food Chemistry. Wiley E. Dickinson. 2007. Food Colloids: Self-Assembly and Materials Science. Royal Society of Chemistry
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