220220260 Cell Biology

Module Name	**Cell Biology**
Module Level, if applicable	Beginner
Code if Applicable	220220260
Subtitle, if applicable	-
Courses, if applicable	220220260 Cell Biology
Semester(s) in which the module is taught	1st
Person responsible for the module	Ir. Sukardi, MP.
Lecturer	Ir. Sukardi, MP.
Language	Indonesian
Relation to curriculum	Compulsory Courses for undergraduate program in Departement of Food Technology, 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 weeks
Credit points	2 SKS X 1.5 = 3 ECTS
Requirements according to the examination regulations	1. Registered in this course 2. Minimum 80% attendance in this course
Recommended prerequisites	-
Module Objectives (Intended learning outcomes)	On successful completion of this course, student should be able to : ● Explain the meaning and function of the parts of eukaryotic and prokaryotic cells. ● Relate the function of cell parts to the theory of protein synthesis pathways. ● Linking protein synthesis pathways with the formation of plant and animal cell tissues
Module Content	This course is a basic course as a prerequisite course for courses that are closely related to food science, such as food microbiology, food biochemistry, and food biotechnology. This course will discuss the structure and function of each material that makes up cell organelles, whether animal cells, plants, fungi, bacteria, and viruses.
Study and examination requirements and forms of examination	**Cognitive:** Midterm exam, Final exam, Quizzes, Assignments **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 white board and power point presentation
Recommended Literature	1. Johnson, A., Lewis, J., Raff, M., Roberts, K., & Walter, P. (2002). Molecular biology of the cell. *Garland Science*, *4*. 2. Karp, G. (2009). *Cell and molecular biology: concepts and experiments*. John Wiley & Sons. 3. Alberts, B., Bray, D., Lewis, J., Raff, M., Roberts, K., & Watson, J.D. (1993). Molecular Biology of the Cell, 3rd edition. Garland Publishing, Inc. New York. 4. Watson, J.D., Hopkins, N.H., Roberts, J.W., Steitz, J.A.S., & Weiner, A.M. 1987. Molecular Biology of the Gene, Vol. I & II, 4th edition. The Benjamin/Cummings Publishing Company Inc. Menlo Park, California. **B. Option** 1. Clark, D. (2005). Molecular Biology. *Elsevier Academic Press*. Amsterdam. 2. Gunning, B. E., & Steer, M. W. (1996). *Plant cell biology: structure and function*. Jones & Bartlett Learning.
Date of Last Amendment	24th Agustus 2022