

Module Handbook

Modul Name	Cell Biology
Modul Level	Bachelor
Abbreviation, If applicable:	BIU100
Sub---heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Even
Module Coordinator	Dr. Dwi Winarni
Lectures	Prof. H. Hery Purnobasuki, Ph.D Dr. J. Sri Wulan Manuhara, S.Si. Dr. Alfiah Hayati
Language	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course / Elective Studies
Teaching format/ class hours per week during semester	300 minutes/ week
Workload per semester	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit point	2
Requirements	General Biology
Learning goals/competencies	<p>General Competence (knowledge) Students are able to understand the structure and function of cells and organelles properly.</p> <p>Specific Competence</p> <ol style="list-style-type: none"> 1. Explaining basic philosophy and theory of cell, as well as the example of two type of cells (prokaryote and eukaryote) 2. Explaining the outer of plasmatic membrane which contains outer cell environment and cell walls. 3. Explaining the structure of outer membrane / plasm 4. Giving the example of cell surface components 5. Showing the types of transport happens in the membrane 6. Explaining the organelle that has outer membrane as biosynthetic and oxidation process 7. Explaining the organelle functioned as modification and export 8. Explaining the organelle functioned as intracellular digestion 9. Explaining the two organelles functioned as energy transduction 10. Showing the intracellular parts 11. Explaining the intracellular information 12. Explaining the molecular anatomy of cell
Content	Introduction to the cell; characteristic of plasma membrane, components of cell surface; membrane transport; biosynthesis and oxydation; modification of export and intracellular digestion; tranduction of energy (mitochondria and chloroplasts); information of intracellular; molecular anatomy and movement.
Soft skill Attribute	Discipline and Argumentation

Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: Assignment and Soft skill (20% and 10%), Mid Exam 35%, Final Exam 35%</p> <p>Final index is defined as follow:</p> <p>A : 75 - 100 AB : 70 - 74.99 B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99</p>
Form of media	LCD, computer
Learning Method	Class and discussion
Literature	<p>a. Albert, Bruce, Dennis Bray, Julian Lewis, Martin Raff, Keith Roberts, James D. Watson. 2002. <i>Molecular Biology of The Cell</i>. New York: Garland Publishing, Inc.</p> <p>b. Karp, Gerald. 2002. <i>Cell and Molecular Biology: Concepts and Experiments</i>. 3rd ed. New York: John Wiley & Sons Inc.</p>
Note	Requirement of Animal Tissue Adaptation