

Undergraduate Programme in Biology

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MODULE HANDBOOK

Module Name	Immunobiology
Module level, if applicable	Bachelor
Code, if applicable	BIO404023
Subtitle, if applicable	-
Courses, if applicable	Immunobiology
Semester(s) in which the module is taught	6 th (sixth)
Person responsible for the module	Dian Aruni Kumalawati, M.Sc
Lecturer(s)	Dian Aruni Kumalawati, M.Sc, Anti Damayanti Hamdani, M.Mol.Bio.
Language	Bahasa Indonesia
Relation to curriculum	Elective course in the third year (6 th semester) Bachelor Degree
Type of teaching, contact hours	100 minutes lectures, 120 minutes structured activities, 120 minutes individual study, 170 minutes laboratory practical per week.
Workload	Total workload is 136 hours per semester, which consists of 100 minutes lectures per week for 16 weeks, 120 minutes structured activities per week, 120 minutes individual study per week (in total is 16 weeks per semester, including mid exam and final exam), 170 minutes laboratory practical (in total is 8 weeks per semester, including individual study and structured activities).
Credit points	3 credits (4,5 ECTS)
Requirements according to the examination regulations	Students must meet a minimum attendance of 75% of the total meetings to be able to take the final exam
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Students are able to apply the basic concepts of immunobiology CO 2. Students are able to explain and analyze the antigen-antibody reaction CO 3. Students are able to apply the basic concepts of immunobiology to explain the immunity process inside organisms
Content	a. Specific and non-specific immunity b. Innate and adaptive immunity c. Cellular immune response d. Primary and complementary body defense system e. Pathogen identification pattern f. Lymphocyte activation and signalling g. Antigen-antibody interaction h. Immunological deficiency i. Vaccine and immunomodulator

Study and examination requirements and forms of examination	The final mark will be weighted as follows:					
	NO		Assessment methods (components, activities)		Weight (percentage)	
	1		Final Examination		35%	
	2		Mid-Term Examination		35%	
	3		Class Activities : Quiz, Homework, etc.		30%	
	The final assessment is expressed in the form of a letter value converted from a number value with the following categories:					
	NO		Number Value		Letter Value	
	1		≥ 95		A	
	2		90-94.99		A-	
	3		85-89.99		A/B	
	4		80-84.99		B+	
	5		75-79.99		B	
	6		70-74.99		B-	
	7		65-69.99		B/C	
	8		60-64.99		C+	
	9		55-59.99		C	
	10		50-54.99		C-	
	11		45-49.99		D	
	12		<35		E	
Media employed	White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/)					
Reading list	1. Albert B, Johnson A, Lewis J, Raff M, Roberts K, and Walter P. 2008. <i>Molecular Biology of the Cell</i>. Garland Science, taylor & Francis Group. New York. 2. Campbell, N.A., J.B. Reece, and L.G. Mitchell. 1999. <i>Biologi</i>. Edisi Kelima. Penerbit Erlangga. Jakarta. 3. Dale, J.W. and von Schantz, M. 2002. From Gene to Genomes. John Wiley & Sons, Ltd 4. Murphy, K. and C. Weaver. 2017. Janeway’s Immunobiology 9th Ed. Garland Science. New York.					

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CO 1				√			√				√
CO 2				√			√				√
CO 3							√				√