

Undergraduate Programme in Biology

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MODULE HANDBOOK

Module Name	Animal Biotechnology
Module level, if applicable	Bachelor
Code, if applicable	BIO425089
Subtitle, if applicable	-
Courses, if applicable	Animal Biotechnology
Semester(s) in which the module is taught	7 th (seventh)
Person responsible for the module	Course coordinator
Lecturer(s)	Dr. Isma Kurniatanty
Language	Indonesia
Relation to curriculum	Elective course in the fourth year (7 th semester) of Bachelor's Degree
Type of teaching, contact hours	150 minutes of lectures and 180 minutes of laboratory activities per week.
Workload	The total workload is 136 hours per semester, which consists of 150 minutes of lectures per week for 14 weeks, 180 minutes of laboratory activities per week, and 180 minutes of individual study per week, in total is 16 weeks per semester, including mid-exam and final exam
Credit points	3 credits (4,5 ECTS)
Requirements according to the examination regulations	minimum attendance 75%
Recommended prerequisites	No prerequisites are stated on
Module objectives/intended learning outcomes	<p>After completing this course, the students:</p> <p>CO 1. Students have learning skills so they can understand the concept of Animal Biotechnology, understand and solve animal biotechnology problems</p> <p>CO 2. Students can work together in group discussions and are skilled at presenting the results of the debate in front of the class</p> <p>CO 3. Students can practice basic concepts of animal biotechnology in laboratory work</p>
Content	<p>a. Biotechnology Techniques for Animals</p> <p>b. Xenotransplantation</p> <p>c. Stem cells</p> <p>d. Monoclonal antibodies</p> <p>e. Vaccine Technology</p> <p>f. Gene Therapy</p>
Study and examination requirements and forms of examination	The final mark will be weighted as follows:

	<table><tr><th>NO</th><th>Assessment methods (components, activities)</th><th>Weight (percentage)</th></tr><tr><td>1</td><td>Final Examination</td><td>30%</td></tr><tr><td>2</td><td>Mid-Term Examination</td><td>25%</td></tr><tr><td>3</td><td>Laboratory practice.</td><td>30%</td></tr><tr><td>4</td><td>Quiz, Homework, etc</td><td>15%</td></tr></table>	NO	Assessment methods (components, activities)	Weight (percentage)	1	Final Examination	30%	2	Mid-Term Examination	25%	3	Laboratory practice.	30%	4	Quiz, Homework, etc	15%																																
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	The final assessment is expressed in the form of a letter value converted from a number value with the following categories:																																															
	<table><tr><th>NO</th><th>Number Value</th><th>Letter Value</th><th>NO</th><th>Number Value</th><th>Letter Value</th></tr><tr><td>1</td><td>≥ 95</td><td>A</td><td>7</td><td>65-69.99</td><td>B/C</td></tr><tr><td>2</td><td>90-94.99</td><td>A-</td><td>8</td><td>60-64.99</td><td>C+</td></tr><tr><td>3</td><td>85-89.99</td><td>A/B</td><td>9</td><td>55-59.99</td><td>C</td></tr><tr><td>4</td><td>80-84.99</td><td>B+</td><td>10</td><td>50-54.99</td><td>C-</td></tr><tr><td>5</td><td>75-79.99</td><td>B</td><td>11</td><td>55-34.99</td><td>D</td></tr><tr><td>6</td><td>70-74.99</td><td>B-</td><td>12</td><td><35</td><td>E</td></tr></table>						NO	Number Value	Letter Value	NO	Number Value	Letter Value	1	≥ 95	A	7	65-69.99	B/C	2	90-94.99	A-	8	60-64.99	C+	3	85-89.99	A/B	9	55-59.99	C	4	80-84.99	B+	10	50-54.99	C-	5	75-79.99	B	11	55-34.99	D	6	70-74.99	B-	12	<35	E
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Media employed	White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/)																																															
Reading list	<ol style="list-style-type: none">1. Textbook of animal biotechnology.2015. Singh, B., Gautam, S.K, Chauhan, M.S and Singla, SK. The Energy and Resources Institute2. Portner, R. (2007). Animal cell biotechnology. Humara Press3. Garland Science Freshnery, R.I (2005). Culture of animal cell. Wiley liss4. Albert, et al. (2011). Molecular biology of the cell.5. Developmental Biology (9 ed). 2006. Scott. F. Gilbert6. Campbell Biology, 2019, Jane Reece, Lisa A. Urry, Peter V. Minorsky, Michael L. Cain, Steven A. Wasserman, Pearson																																															

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					√					√	