

Undergraduate Programme in Biology

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MODULE HANDBOOK

Module Name	Methods and Writing Scientific Papers
Module level, if applicable	Bachelor
Code, if applicable	BIO414021
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	4 th (fourth)
Person responsible for the module	Dr. Isma Kurniatanty, M.Si
Lecturer(s)	Dr. Isma Kurniatanty, M.Si
Language	Indonesia
Relation to curriculum	Compulsory course in the fourth year (4 th semester) Bachelor Degree
Type of teaching, contact hours	150 minutes lectures, 180 minutes structured activities, 180 minutes individual study, 170 minutes laboratory practical per week.
Workload	Total workload is 181,32 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, 170 minutes laboratory practical per week, in total is 16 weeks per semester, including mid exam and final exam.
Credit points	4 credits (6 ECTS)
Requirements according to the examination regulations	Minimum attendance of 75%, Participate in all laboratory practical and exam of laboratory practical.
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Students are able to present scientific writing based on references accurately, honestly and responsibly CO 2. Students are able to analyze literature critically, to recognize papers that are relevant to the research topic CO 3. Students are able to process and present research data accurately and clearly CO 4. Students understand the concepts of experimental design and research methods CO 5. Students are able to arrange the elements (systematics) in a research proposal
Content	1. Basic concepts of the scientific method and experimental design 2. Quantitative, qualitative and mixed research 3. Determining the research topic 4. Background, objectives, problem formulation, benefits, hypothesis

	5. Research methods and experimental design 6. Design/Design of CRD and RCBD experiments 7. Elements of academic writing 8. Writing research articles																																																									
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>20%</td></tr><tr><td>3</td><td>Laboratory practical</td><td>30%</td></tr><tr><td>4</td><td>Class activities : quiz, homework etc</td><td>20 %</td></tr></table> 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	Assessment methods (components, activities)	Weight (percentage)	1	Final Examination	30%	2	Mid-Term Examination	20%	3	Laboratory practical	30%	4	Class activities : quiz, homework etc	20 %	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	1. Gomez, K.A. and Gomez, A.A. 1976. Statistical Procedures for Agriculture Research with Emphasis on Rice. IRR. Laguna. Philippines. 2. Sudjana, Nana. (2010). Metode Statistik. Bandung: Tarsito 3. Sugiyono. 2010. Statistika Untuk Penelitian. Bandung: Alfabeta 4. Sugiyono. 2011. Metode Penelitian Kuantitatif, Kualitatif dan R&D. Bandung: Alfabeta 5. Tim Penyusun. 2020. Panduan penulisan Skripsi Biologi. Fakultas Sains dan Teknologi. UIN Sunan Kalijaga																																																									

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		√				√					
CO 4						√					
CO 5						√					



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