



**THE MODULE HANDBOOK**  
**FACULTY OF BIOLOGY**  
**MASTER PROGRAMME**

**METHODS ON BIOLOGICAL RESEARCH**

<b>Module code</b>	BIO-70014
<b>Module level</b>	2 <sup>nd</sup> year of Master Program in Biology
<b>Abbreviation, if applicable</b>	-
<b>Courses related</b>	-
<b>Semester</b>	Odd, Even
<b>Course coordinator(s)</b>	Dr. Budi Setiadi Daryono, M.Agr.Sc
<b>Lecture(s)</b>	1. Dr. Budi Setiadi Daryono, M.Agr.Sc 2. Prof. (ret) Sukarti Moeljopawiro, Ph.D.
<b>Language</b>	Bahasa Indonesia and English
<b>Classification within the Curriculum</b>	Compulsory Courses
<b>Teaching format/class hours per week during the semester</b>	This course is organized into one class and planned to have 14 teaching weeks and 2 weeks of examination.
<b>Workload</b>	Estimated working hour: 7.0 hours/week.
<b>Credit</b>	2-0 credits
<b>Requirements</b>	-
<b>Course Learning Outcome</b>	1. Able to compose good proposals and research reports 2. Able to plan, conduct, report, and evaluate a research in biology 3. Able to integrate and evaluate information and data from various sources as well to use holistic approaches in solving a problem and constructing a design



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<b>Syllabus</b>	Methods on Biological Research is a compulsory subject learning about composing scientific work and publications nationally or internationally. Selection of research problems, Composing titles and abstracts, Hypotheses and ways of writing (introduction, literature review, methods, results and discussion, conclusions, bibliography, and summaries), Methods for presenting results (tables, graphs, histograms and their respective functions), Methods in oral presentation and Making power points and posters, Ethics in biomedical researches
<b>Study/exam achievements</b>	<ol style="list-style-type: none"><li>Midterm: 20%</li><li>Final examination: 30%</li><li>Quizzes: 20%</li><li>Assignments: 30%</li></ol>
<b>Forms of media</b>	White board, notebook, LCD
<b>Reference</b>	<ol style="list-style-type: none"><li>Day, R.A. and B. Gastel. 2006 . How to Write and Publish a Scientific Paper. Sixth edition. Greenwood Press. Westport.</li><li>McMillan, V.E. 1997. Writing Paper in the Biological Sciences. Bedford Books Boston.</li><li>Nazir, M. 1988. Metode Penelitian. Ghalia Indonesia.</li><li>Pechenik, J.A. and B.C. Lamb. 1994. How to Write about Biology. Longman.</li><li>Pratiknya, A.W. 1993. Dasar-Dasar Metodologi Penelitian Kedokteran dan Kesehatan. Raja Grafindo Persada. Jakarta</li></ol>