

## Module/Course Description

### METHODS OF SCIENTIFICS WRITING (MNH 291)

A. Module Identity		
1.	Name	Methods of Scientific Writing
2.	Code	MNH 291
3.	Credit	2 (2-0)
4.	Semester	3
5.	Coordinator	Dr. Ir. Ahmad Budiaman, M.Sc.Forst.Trop.
6.	Lecturers	Dr. Ir. Ahmad Budiaman, M.Sc.Forst.Trop. Prof. Dr. Ir. I Nengah Suratı Jaya, M.Agr.
7.	Language	Indonesian
8.	Program(s) in which the course is offered	Internal department: Forest Management Study Program Other departments: -
9.	Type of teaching	a. Traditional classroom: 100 % b. Blended system: Traditional classroom....%, Online....% c. e-Learning system: .....% d. Others: .....%

B. Workload of course components (total contact hours and credits per semester)								
Credit		Contact Hours				Self-Study	Other	Total
SKS *)	ECTS	Lecture	Exercise	Laboratory	Practice			
<b>2</b>		<b>28</b>				<b>56</b>		<b>84</b>

*\*) Semester credit unit according to the Indonesian higher educational system*

*1 credit unit lecture = 2 hours/ week for lecture and 2 hours/ week for self-study within 14 weeks/ semester*

*1 credit unit class exercise or laboratory or field practice = 3 hours/week within 12-14 weeks/semester*

*\*\*\*) 1 hour for lecture= 50 minutes; 1 hour for class exercise or laboratory or field practice = 60 minutes*

C. Module Objective (Learning Outcomes)
The students having the ability to comprehend the principles of designing and conducting research and are able to put in writing their research results in the form of scientific papers in accordance with the writing rules and regulations applicable.

**D. Detailed Course Learning Outcomes (LO) in Relation to Learning Domains, Teaching Strategies, and Assignment Methods**

No.	LO in Learning Domains	Teaching Strategies	Assessment Methods
a.	<b>Knowledge</b>		
1.	Students are able <b>to describe</b> the definition, characteristics, and types of scientific papers as well as understand the stages of scientific writing.	Presentation of teaching materials. Debriefing sessions	Midterm Exam
2.	Students are able <b>to outline</b> the general patterns of scientific writing applicable at IPB and writing formats and are able to explain the anatomy of thesis or internship reports.	Presentation of teaching materials. Debriefing sessions	Midterm Exam
3.	Students are able <b>to explain</b> the definition of research, research methods, and types of research as well as understand scientific rules, attitudes and ethics.	Presentation of teaching materials. Debriefing sessions	Midterm Exam
4.	Students are able <b>to distinguish</b> the characteristics of each type of research.	Presentation of teaching materials. Debriefing sessions	Midterm Exam
5.	Students are able <b>to distinguish</b> the types of data and collect data using correct methods.	Presentation of teaching materials. Debriefing sessions	Midterm Exam
6.	Students are able <b>to use</b> the correct numbers and symbols in scientific writing.	Presentation of teaching materials. Discussion	Final Exam
7.	Students are able <b>to use</b> the correct scientific terms and nomenclatures in scientific	Presentation of teaching materials. Debriefing sessions	Final Exam

	writing.		
8.	Students are able <b>to use</b> several reference techniques in scientific writing and understand plagiarism.	Presentation of teaching materials. Group discussion	Final Exam, Group Assignments
<b>b.</b>	<b>Skills</b>		
1.	Students are able <b>to compose</b> research proposals for thesis.	Presentation of teaching materials. Debriefing sessions Paper assignments	Midterm Exam, Proposal
2.	Students are able <b>to design</b> research problems.	Presentation of teaching materials. Debriefing sessions	Midterm Exam, Proposal
3.	Students are able <b>to write</b> the letters, punctuation, decide on word choice and phrasing in scientific writing.	Presentation of teaching materials. Debriefing sessions	Final Exam
4.	Students are able to <b>create</b> tables, graphs, and images in scientific writing.	Presentation of teaching materials. Debriefing sessions	Final Exam
5.	Students are able <b>to compose</b> the scientific paper titles according to the applicable rules.	Presentation of teaching materials. Debriefing sessions	Final Exam, Group Assignments
6.	Students are able <b>to write</b> the references in scientific writing according to the applicable rules.	Presentation of teaching materials. Debriefing sessions	Final Exam

<b>E. Module Content</b>		
<b>List of Topic</b>	<b>Number of Weeks</b>	<b>Contact Hours</b>
<b>Course Agreement and Scientific Papers</b>	<b>1</b>	<b>2</b>
<b>Anatomy of Scientific Papers</b>	<b>1</b>	<b>2</b>
<b>Research Methodology</b>	<b>1</b>	<b>2</b>
<b>Type of Research</b>	<b>1</b>	<b>2</b>
<b>Formulation of Research Proposal</b>	<b>1</b>	<b>2</b>

<b>Identification and Formulation of Research Problem</b>	<b>1</b>	<b>2</b>
<b>Data</b>	<b>1</b>	<b>2</b>
<b>Linguistic Aspects</b>	<b>1</b>	<b>2</b>
<b>Numbers and Symbols</b>	<b>1</b>	<b>2</b>
<b>Terms and Scientific Nomenclatures</b>	<b>1</b>	<b>2</b>
<b>Writing Illustrations</b>	<b>1</b>	<b>2</b>
<b>Writing Tittles</b>	<b>1</b>	<b>2</b>
<b>Quoting References</b>	<b>1</b>	<b>2</b>
<b>Reference Techniques</b>	<b>1</b>	<b>2</b>

<b>F. Course Assessments</b>			
<b>No.</b>	<b>Assessment Type *)</b>	<b>Schedule (Week Due)</b>	<b>Proportion of the Final Mark</b>
1.	<b>Mid-term examination</b>	<b>8<sup>th</sup> week</b>	<b>40%</b>
2.	<b>Final examination</b>	<b>16<sup>th</sup> week</b>	<b>40%</b>
3.	<b>Group assignments</b>	<b>End of each week</b>	<b>5%</b>
4.	<b>Proposal</b>	<b>5<sup>th</sup> and 6<sup>th</sup> week</b>	<b>15%</b>

\*) Example: mid-term examination, final examination, quiz, homework, project, etc.

<b>G. Media Employed</b>
<ul style="list-style-type: none"> <li>- Classroom</li> <li>- Laptop</li> <li>- LCD</li> <li>- Microphone (loudspeaker)</li> <li>- Whiteboard</li> </ul>

<b>H. Learning Resources</b>
<ol style="list-style-type: none"> <li>1. [IPB} Institut Pertanian Bogor. 2012. <i>Pedoman Penulisan Karya Ilmiah. 3rd Edition.</i> Bogor (ID): Institut Pertanian Bogor.</li> <li>2. Day RA. 1979. <i>How to write and publish a scientific paper.5th Edition.</i> Phoenix (US): Oryx Pr.</li> </ol>