



## Course Module

# Research Methods and Scientific Publication

Faculty of Forestry

Mulawarman University

Module name	Research Methods and Scientific Publication
Module level, if applicable	Graduates Programme
Code, if applicable	220401803W006
Subtitle, if applicable	
Courses, if applicable	Regular
Semester(s) in which the module is taught	I (one)
Person responsible for the module	Prof. Dr. Irawan Wijaya Kusuma, S.Hut., M.P.
Lecturer	Prof. Dr. Irawan Wijaya Kusuma, S.Hut., M.P. Dr. Ir. Setiawati, M.P. Dr. Erwin, S.Hut., M.P. Ali Suhardiman, S.Hut., M.P., Ph.D. Dr. Rachmat Budiwijaya Suba, S.Hut., M.Sc. Kiswanto, S.Hut., M.P., Ph.D.
Language	Indonesia
Relation to curriculum	Programme, mandatory
Type of teaching, contact hours	Lecture, discussion, question and answer method, simulation 2.5 lecture contact hours
Workload	Number of meetings per semester: 16 meetings (14 meetings for learning activity, 1 meeting for mid-semester test dedicated for finalizing thesis introduction part, 1 meeting for finalize final project) 3 x 50 minutes lectures and discussion, 3 x 60 minutes structured activity, 3 x 60 minutes individual activity, with a total of 7,140 minutes or equivalent to a total of 119 hours in 14 weeks per semester
Credit points	3 SKS (4.8 ECTS) Details: 1 Credit = 170 min/week 1 Credit = 170 min x 14 week = 2,380 min/semester 1 ECTS = 25 h / semester 1 Credit = 2,380 / 60 / 25 = 1.59 = 1.6 ECTS 3 Credit = 1.6 x 3 = 4.8 ECTS
Requirements according to the examination regulations	Have attended not less than 80% class meetings Have completed 100% all required structured and independent assignments
Recommended prerequisites	

Module objectives/course learning outcomes	<p><b><u>Intended Learning Outcomes</u></b></p> <p><b><u>Knowledge and Understanding</u></b></p> <p><b>ILO-1:</b> Applying scientific ethics, norms, and values of professionalism</p> <p><b><u>Engineering Analysis</u></b></p> <p><b>ILO-2 :</b> Mastering specialized knowledge, skills and techniques in the field of forestry and tropical environment and being able to develop innovative theories, models and methods in their field.</p> <p><b><u>Investigation</u></b></p> <p><b>ILO-3:</b> Able to analyze current problems and issues, and assess the ecological, social, and economic impacts of implementing programs in the forestry and tropical environmental sectors.</p> <p><b><u>Engineering Design and Practice</u></b></p> <p><b>ILO-4:</b> Develop research schemes based on inter or multidisciplinary approaches to tropical forestry and the environment, and communicate the results to the public.</p> <p><b><u>Course Learning Outcomes</u></b></p> <p><b><u>Knowledge and Understanding</u></b></p> <p><b>CLO-1:</b> Students are able to understand the importance of internalizing scientific ethics, norms, and values of professionalism in conducting research and scientific publications.</p> <p><b><u>Engineering Analysis</u></b></p> <p><b>CLO-2:</b> Students are able to apply knowledge, skills, and specialized techniques in forestry and tropical environmental fields to develop research frameworks in their respective area</p> <p><b><u>Investigation</u></b></p> <p><b>CLO-3:</b> Students are able to conduct research and publish their results with themes related to the analysis of current problems and issues, as well as assess the ecological, social, and economic impacts of implementing programs in the forestry and tropical forest environment sectors.</p> <p><b><u>Social Competences</u></b></p> <p><b>CLO-4:</b> Students are able to compile research schemes based on inter- or multi-disciplinary approaches to forestry and tropical forest environments, and communicate the results to the public</p>
Content	<p>This course discusses basic concepts of research; literature sources and currency of research topics; ethics in research, scientific writing and publication, systematic preparation of proposals and theses; research design; preparation of introduction and literature review; research variables; statistical rules in data collection techniques; important points of research results and publication materials; preparation of research proposals.</p> <p>After attending this course, students have the ability to:</p> <ol style="list-style-type: none"> <li>1. Students are able to understand the basic concepts of research <b>(CLO-1)</b></li> <li>2. Students are able to conceptualize a research design <b>(CLO-1)</b></li> <li>3. Students are able to explore library sources and assess the topic's up-to-dateness <b>(CLO-1)</b></li> </ol>

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