

Course Module Departement of Animal Science Faculty of Animal Science Universitas Brawijaya

Module Name	Research Methodology and Scientific Writing
Module Level	Undergraduate Program
Code	PEF60005
Subtitle	-
Courses	Research Methodology and Scientific Writing
Semester (s)	4
Person responsible for the module	-
Lecturer	 Prof. Dr. Ir. Trinil Susilawati, MS, IPU, ASEAN Eng. Dr. Ir. Bambang Ali Nugroho, DEA, IPM, ASEAN Eng.
	3. Prof. Dr. Lilik Eka Radiati, MS, IPU
	4. Prof. Dr. Budi Hartono, MS, IPU, ASEAN Eng.
	5. Ir. Hari Dwi Utami, MS, M.Appl.Sc., Ph.D., IPM, ASEAN Eng.
	6. Dr. Siti Azizah, S.Pt., M.Sos., M.Commun.
	7. Dr. Ir. Kuswati, MS, IPM, ASEAN Eng.
	8. Dr. Ir. Moch. Nasich, MS
	9. Dr. Ir. Puguh Suryowardojo, MP
	10. Dr. Ir. Umi Wisaptiningsih Suwandi, MS
	11. Dr. Ir. Muharlien, MP
	12. Dr. Ir. M. Halim Natsir, MP, IPM, ASEAN Eng.
Language	Bahasa Indonesia, English
Relation to curriculum	Study Program: Animal Science
	Type: Compulsory
Type of Teaching contact hours	Contact hours and class size separately for each teaching method: lecture, lesson, project, practical etc.
Workload	Courses: 90,67 hours/semester
	Practical: 1,70 hours/semester
Credit Weight	3 credits / 5.10 ects
Requirements according to the examination regulations	-
Recommended prerequisites	-
Requirements for Passing the Course	-
Prerequisite Course	Applied Statistics and Experimental Design (PEF60003)

Module objectives/intended learning outcomes

Learning Outcomes:

- 1. Contributing to the escalation and development of quality of life locally and globally (LO 2)
- Capability to analyse the development and implementation of technology through humanities, ethical and scientific value as to provide appropriate solutions and ideas (LO 5)
- 3. Capability to effectively communicate the thought, concept, implementation and analysis in oral and written form, nationally and internationally (LO 9)
- 4. Capability to ethically design and perform experiments, analyze and interpret data as to provide sustainable problem solving in Animal Science (LO 12)

Course Learning Outcomes:

- 1. Explain the importance of integrity (honesty and ethics) in preparing research, reporting research results, and preparingscientific works.
- 2. Explain the conceptual background, theoretical framework/concept, literature review, experimental research methodology, survey, and qualitative aspects.
- 3. Implement the preparation of experimental research proposals theoretically and practically in the laboratory and the field, survey and qualitative research.
- 4. Conceptualize scientific articles and present scientific presentations properly.

Objectives: This course includes comprehension in writing a research proposal, research reports, and scientific works in the field of animal science which include; writing a research background, problem identification and formulation, research objectives and benefits, hypotheses, literature review, framework/concept, research methods and research operational framework, selection of statistical designs and data analysis, presentation and interpretation of results and discussion, conclusions and suggestions, references and appendices, introduction to the types of scientific publications, and the principles and practices of scientific presentation in the form of seminar presentations.

Knowledge: Explain the conceptual background, theoretical framework/concept, literature review, experimental research methodology, survey, and qualitative aspect, the importance of integrity (honesty

	and ethics) in preparing research, reporting research results, and preparing scientific work
	Skills: cognitive- Conceptualize scientific articles and
	present scientific presentations properly.
	Phsycomotoric-Students are Implement the preparation
	of experimental research proposals theoretically and
	practically in the laboratory and the field, survey and
	qualitative research.
	Competences: able to Selection of research topics,
Loarning Contont	Scientific Writing, 1. Definition of Scientific Research and Scientific
Learning Content	Work, Utilization of Research Methods and
	Scientific Work and the Relationship among
	Disciplines of Science
	Selection of research topics and writing
	introduction
	3. How to Write a Literature Review
	4. Definition and How to Write a Framework of Thinking
	5. Description and Method of Preparation of
	Research Methodology and How to Choose
	Methods in accordance with Research Topic
	6. Writing Results and Discussion
	7. Scientific Presentation Techniques
	8. Writing Conclusions, Suggestions, and Attachments
	9. Designing Literature Studies
	10. Description of Scientific Work
	11. Manuscript preparation techniques for journals
	12. Manuscript Compilation Practices for Journals
Study and examination requirements	Attendance > 80%
and forms of examination	Final Score > 44
	The final score component:
	30% Midterm Exam, 30 % Final Exam, 20% Structured
	Assignments, 10% Quiz, and 10% Activeness
	A: 80 < Final Score ≤ 100
	B+ : 75 < Final Score ≤ 80
	B: 69 < Final Score ≤ 75
	C+ : 60 < Final Score ≤ 69
	C:55 < Final Score ≤ 60
	D: 50 < Final Score ≤ 55
Test Terms and Forms	D+: 44 < Final Score ≤ 50 Examination Population and Section 1.5 Examination Population 2.0 Examination
rest rerins and Forms	Examination Requirements: A minimum of 80% attendance to attend the Final Exam.
Learning Media	The form of the test: Multiple choices and/or Essay
Learning Media	Projector and screens, VLM, Google Classroom

	1. Statistika dan Rancangan Percobaan Penerapan
	dalam Bidang Peternakan (Herni sudarwati et al.,
	UB Press).
	2. Metode Penelitian (Metode Percobaan dan Karya
	Ilmiah) (Yogi Sugito, UB Press).
	3. Metode Penelitian (kupas Tuntas Mencapai
	Tujuan) (Sri Kumala Ningsih, UB Press).
	4. Prinsip-Prinsip Menyusun Kuisioner (Eko Nugroho,
	UB Press).