

Module Handbook

Module Name:	Research Methodology
Module Level:	Bachelor
Abbreviation, if applicable:	PNT497
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	5 th / Third years
Module coordinator(s):	Prof. Dr. Afaf Baktir, M.S
Lecturer(s):	Prof. Dr. Ni Nyoman TP, M.S
Language:	Bahasa Indonesia
Classification within the curriculum	Elective Course
Teaching format / class hours per week during semester:	2 hours lectures (50 min / hour)
Workload:	2 hours lectures, 2 hour structural activities, 2 hours individual study, 13 week per semester, and total 78 hours per semester ~ 2.6 ECTS *
Credit Points:	2
Requirements:	All compulsory fourth Semester
Learning goals/competencies:	<p>General Competence(knowledge): design research and develop a research proposal based on the applicable guidelines.</p> <p>Specific Competence:</p> <ol style="list-style-type: none"> 1. able to prepare research proposals and reports according to the methods of research, covering the completeness of the research proposal 2. able to use standard language in scientific reports; 3. able to understand the validation of chemical measurements; t test; one and two-way ANOVA;
Content:	The characteristics of the methods of scientific reasoning which consists of scientific discovery, the scientific method, the philosophy of science and scientific reasoning methods; introduction to research methodology consisted of meaning, purpose and objectives; research planning that consists of determination titles and writing background of the problem as well as the formulation of the problem; References ways to search; sampling; Data analysis and statistics; report writing; use of language in scientific report.
Atribut soft skills	Effort, communication skill
Study/exam achievements:	<p>Students are considered to be competent and pass if at least get 55</p> <p><u>The final value is calculated as follows:</u></p> <p>- UTS : 30 %</p> <p>- UAS : 30 %</p>

	<p>- Individual activities : 20 % - group assignment (paper& presentation): 20 %</p> <p><u>Final index is defined as follow:</u> A : 100 >NA≥75 AB : 74,99 > NA ≥70 B : 69,99> NA ≥65 BC : 64,99 > NA≥ 60 C : 59,99 > NA≥ 55 D : 54,99 > NA≥ 40 E : 39,99 < NA</p>
Learning Methods	Lecture, group discussion andclass discussion.
Forms of Media:	Computer, LCD
Literature:	<ol style="list-style-type: none"> 1. Buku Pedoman Penyusunan Usulan Penelitian dan Skripsi, FMIPA UNAIR, 2010 2. Miller, J.C and Miller, J.N., 1989, <i>Statistic for Analytical Chemistry</i> (terjemahan ITB) 3. Sevilla, C.G., Ochave, J.A., Punsalan, T.G., Regala, B.P., Uriarte, G.G., 1993, <i>Pengantar Metode Penelitian</i>, Penerbit Universitas Indonesia 4. Rifai,M.A., 1997, <i>Pegangan Gaya Penulisan, Penyuntingan, dan Penerbitan Karya Ilmiah Indonesia</i>, Gajah Mada University Press
Notes:	<p>*Total ECTS = {(total hours workload x 50 min) / 60 min } / 25 hours Each ECTS is equals with 25 hours</p>