

Module designation	CE712 Research Methodology
Semester(s) in which the module is taught	5
Person responsible for the module	Samuel Hutagalung
Language	Indonesian
Relation to curriculum	Compulsory
Teaching methods	Lecture, Problem Based, Independent Learning
Workload (incl. contact hours, self-study hours)	Total workload: 90.72 hours - 23.34 Synchronous lecture. - 56.04 Self-study and assignments in the form of essays. - 2x5.67 Exam and self study
Credit points	2 / 3.36 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	Module objectives: Students will be able to make research report proposal corresponding to its format.  ELO (Performance Indicator) : <ul style="list-style-type: none"> <li>• B1 - Understand the concept of communications between computer systems, operating systems, and computer security.</li> <li>• E1 - Ability to conduct scientific research in accordance with appropriate scientific methods, principles, procedures, and ethics.</li> <li>• F1 - Ability to construct solutions with logical, critical, and systematic thinking based on analytically-identified problems.</li> </ul>
Content	This course explains the concept of methodology and research methods. Furthermore, students are expected to be able to prepare research proposals.
Examination forms	Written Test, Product Based
Study and examination requirements	The total weighted average for the assignments (30%), midterm (30%), and final (40%) exams must be $\geq 55$ .
Reading list	1. Caroline Whitbeck - Ethics in Engineering Practice and Research-Cambridge University Press (2011). 2. K Srinagesh - The Principles of Experimental Research (2005).

