MODULE HANDBOOK DESCRIPTION

Module designation	Operating System
Code	FBD3105
Semester(s) in which the module is taught	5/third year
Person responsible for the module	Cipta Ramadhani, S.T., M.Eng.
Language	Indonesian
Relation to curriculum	Compulsory for computer system
Teaching methods	Lecture, small group discussion, case base method.
Workload (incl. contact hours, self-study hours)	Contact minutes every week, each week of the 16 weeks/semester : • Lectures: 2 x 50 minutes • Exercises and Assignments: 2 x 30 minutes • Private study: 2 x 90 minutes. Total study hours = 5 hours 40 minutes/week
Credit points	2 (~ 3,2 ECTS)
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	1. Students are able to understand and analyze the concept of process in operating system. 2. Students are able to understand process management in operating system. 3. Students are able to understand and analyze the basic of scheduling process. 4. Students are able to understand and analyze about handling deadlock process in operating system. 5. Students are able to understand and analyze management of memory	PLO3, PLO4
	6. Students are able to understand definition, meaning and purpose of operating system. 7. Students are able to understand the history of computer and the definition of computer system. 8. Students are able to understand concept of structure in operating system.	PLO3

	9. Students are able to operate several operating systems. 10. Students are able to operate different application in operating system.	PLO5
Content	Component of operating system, process management in operating system, structure and process in operating system, scheduling in operating system.	
Examination forms	Essay, Presentation case study	
Study and examination requirements	The final grade in the module is composed of: a. Exercise Report/Homework/Portofolio: 15% b. Projects: 55% c. Midterm assessment: 15% d. Final assessment: 15% Students must have a final grade of 70% or higher to pass	
Reading list	1. William Stalling, 2006, Sistem Operasi. PT Indeks, Kelompok Gramedia. 2. Tanenbaum, Andrew S., 2015, Modern Operating System. Boston: Pearson Education. 3. Sri Kusumadewi, 2000, Sistem Operasi. Graha Ilmu. 4. Abraham Silberschatz, 1998, Operating System Concept. Addison Wesley Longman, Inc.	