

**UNDERGRADUATE PROGRAM IN COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE AND ELECTRONICS
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS GADJAH MADA**

Module name	Operating System Labworks	
Module level	Undergraduate	
Code	MII-2612	
Courses (if applicable)	Operating System Labworks	
Semester	Even (Genap)	
Contact person	Aufaclav Zatu Kusuma Frisky, M.Sc.	
Lecturer	Aufaclav Zatu Kusuma Frisky, M.Sc.	
Language	Bahasa Indonesia	
Relation to curriculum	<ol style="list-style-type: none"> 1. Undergraduate degree program; mandatory; 4th semester. 2. International undergraduate program; mandatory; 4th semester. 	
Type of teaching, contact hours	<ol style="list-style-type: none"> 1. Undergraduate degree program: lab lectures, <30 students 2. International undergraduate program: lab lectures, < 30 students 	
Workload	<ol style="list-style-type: none"> 1. Lectures: 1 x 100 = 100 minutes (1.5 hours) per week. 2. Exercises and Assignments: 1 x 60 = 60 minutes (1 hours) per week. 3. Private study: 2 x 60 = 120 minutes (2 hours) per week. 	
Credit points	1 credit points (cr).	
Requirements according to the examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.	
Recommended prerequisites	-	
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to:	PL03
	C01 Know the various operating systems and able to distinguish variants of the operating system.	PL04
	C02 Be able to install the Operating System.	PL04
	C03 Familiar with the administrative tools and system configurations in the Windows Operating System and be able to use them in real cases.	PL04
	C04 Understand the process of scheduling and multithread programming	PL04

	C05 Be able to operate Windows Operating System using Terminal	PL04																							
	C06 Be able to use various resources in Windows Operating System	PL04																							
	C07 Be able to understand file system management and how disk scheduling works.	PL04																							
	C08 Understand and be able to implement securities in Windows Operating System.	PL04																							
	C09 Understand the Linux work environment	PL04																							
	C010 Understand and implement security on Linux operating system.	PL04																							
	C011 Understand the management of a memory in an operating system.	PL04																							
	C012 Understand and be able to configure Macintosh and Android Operating System.	PL04																							
Content	<p>Course Operating System Labworks is a compulsory subject given to students of the 4th semester of Computer Science Department of FMIPA UGM. The operating system is an important component in the world of computer science. There are several operating system variants such as windows, linux and mac os that each have different behavior. The ability to operate the operating system not only stops in the usage as an end user but also can configure, as well as security of the operating system in each variant.</p> <p>In this course, students are expected to understand practically the various variants of the operating system. In addition, students are also able to install and perform administrative management of various operating systems. Furthermore, students are required to understand the security of each operating system.</p>																								
Study and examination requirements and forms of examination	Final examination.																								
Media employed	LCD, whiteboard, websites, handouts																								
Assessments and Evaluation	<table border="1"> <thead> <tr> <th>CO</th> <th>Evaluation Method</th> <th>Type</th> <th>%</th> <th>Tot</th> </tr> </thead> <tbody> <tr> <td>C01</td> <td>Problem in Midterm</td> <td>Summative</td> <td>5%</td> <td>5%</td> </tr> <tr> <td rowspan="2">C02</td> <td>Problem in Midterm</td> <td>Summative</td> <td>5%</td> <td rowspan="2">10%</td> </tr> <tr> <td>Assignment</td> <td>Formative</td> <td>5%</td> </tr> <tr> <td>C03</td> <td>Problem in Midterm</td> <td>Summative</td> <td>5%</td> <td>10%</td> </tr> </tbody> </table>		CO	Evaluation Method	Type	%	Tot	C01	Problem in Midterm	Summative	5%	5%	C02	Problem in Midterm	Summative	5%	10%	Assignment	Formative	5%	C03	Problem in Midterm	Summative	5%	10%
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		Assignment	Formative	5%	
	C05	Problem in Midterm	Summative	5%	10%
		Group Assignment	Formative	5%	
	C06	Problem in Midterm	Summative	5%	10%
		Assignment	Formative	5%	
	C07	Problem in Finalterm	Summative	5%	10%
		Assignment	Formative	5%	
	C08	Problem in Finalterm	Summative	5%	10%
		Assignment	Formative	5%	
	C09	Problem in Finalterm	Summative	5%	5%
	C010	Problem in Finalterm	Summative	5%	5%
	C011	Problem in Finalterm	Summative	5%	5%
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