

HANDBOOK

BACHELOR OF INFORMATICS PROGRAM

DEPARTMENT OF INFORMATICS

FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY

INSTITUT TEKNOLOGI SEPULUH NOPEMBER

Module name	Computer Organization
Module level	Undergraduate
Code	IF184305
Courses (if applicable)	Computer Organization
Semester	3
Contact person	
Lecturer	Prof. Ir. Supeno Djanali, MSc, Ph.D. MH Prof. Tohari Ahmad, S.Kom, M.IT, Ph.D HC
Language	Bahasa Indonesia and English
Relation to curriculum	1. Undergraduate degree program; mandatory; 3 rd semester. 2. International undergraduate program; mandatory; 3 rd semester.
Type of teaching, contact hours	1. Undergraduate degree program: lectures, < 60 students, 2. International undergraduate program: lectures, < 40 students
Workload	1. Lectures: 3 x 50 = 150 minutes (2 hours 30 minutes) per week. 2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per week. 3. Private study: 3 x 60 = 180 minutes (3 hours) per week.
Credit points	3 credit points (sks).
Requirements according to the examination	A student must have attended at least 80% of the lectures to sit in the exams.
regulations	

Mandatory prerequisites	Digital System	
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to:	
	CO1 Students capable of explaining all aspects of computer organization.	PLO3
Content	<p>Knowledge:</p> <p>Mastering concept and theory of architecture, system and network computer principles based on logic.</p> <p>Specific Skill:</p> <p>Able to implement computer architecture and principles of operating system tasks to design, implement and manage network system with high performance, safety, and efficient.</p>	
Study and examination requirements and forms of examination	Mid-terms examination and Final examination.	
Media employed	LCD, whiteboard, websites, books (as references), etc.	
Assessments and Evaluation		

Reading List	<p data-bbox="523 286 1422 320">Supeno Djanali & Baskoro Adi P., Organisasi Komputer, ITS Press, 2012</p> <p data-bbox="523 365 1390 432">Hamacher, Vranecic & Zaky, Computer Organization and Embedded Systems (6th Edition), McGraw-Hill, 2011.</p> <p data-bbox="523 477 1334 544">William Stallings, Computer Organization and Architecture (9th Edition), Prentice-Hall, 2012.</p> <p data-bbox="523 589 1398 656">Morris Mano, Computer System Architecture (3rd Edition), Prentice-Hall, 1993.</p>
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