



**LIST OF COURSES OFFERED TO INTERNATIONAL STUDENTS
NON-DEGREE PROGRAM
ODD SEMESTER, ACADEMIC YEAR 2026/2027
Faculty of Engineering - Universitas Indonesia**

Course Name: Computer Organization and Architecture

Course Code: ENCE611002

Course Credits: 3

Degree	Bachelor
Department/Study Program	Computer Engineering
Type of Class	International
Language of Instruction	English
Lecturer Name	
Course Structure	Lecture
Course Overview	This course provides an overview of computer organization and architecture, focusing on microprocessor design, memory hierarchy, assembly language, and the practical application of computer systems.
Course Key Words	
Academic Goal	<ol style="list-style-type: none"> 1. Able to implement organizational theory and computer architecture to access resources on a specific microprocessor
Course Schedule	Introduction; History of Microprocessor; Designing for Performance; Top-Level view of Computer System; Processor Organization; Memory; Peripheral subsystems; Fundamentals of Assembly Programming; Addressing Modes; Transfer Data; Arithmetic and Logic Instruction; Program Control; Programming the Microprocessor
Textbooks, References, and Supplementary Materials	<ol style="list-style-type: none"> 1. W. Stallings, "Computer Organization and Architecture," 11th Edition, Pearson International, 2021. 2. Brey Barry B, "The Intel Microprocessors: 8086/8088, 80186/80188, 80286, 80386, 80486, Pentium, Pentium Pro Processor, Pentium II, Pentium III, Pentium 4," Prentice Hall, 2008.
Grading Component	<ul style="list-style-type: none"> - Midterm Exam: 25% - Final Exam: 25% - Assignments: 40% - Quizzes: 10%
Other	Students are expected to:



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(i.e. Expectations on Classroom Conduct and Decorum etc.)	<ul style="list-style-type: none">- Attend all classes regularly and on time.- Participate actively in discussions and learning activities.- Maintain respectful behavior toward instructors and peers.- Avoid any form of academic dishonesty (e.g., plagiarism, cheating).
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Course Name: Database System and Laboratory

Course Code: ENCE614016

Course Credits: 3

Degree	Bachelor
Department/Study Program	Computer Engineering
Type of Class	International
Language of Instruction	English
Lecturer Name	
Course Structure	Lecture and Lab
Course Overview	This course introduces the concepts and techniques of database systems, including data modeling, database design, SQL, and database management systems. Students will gain practical experience through laboratory exercises using a database management system.
Course Key Words	
Academic Goal	<ol style="list-style-type: none"> 1. Able to design a relational database based on system requirements 2. Able to write SQL queries to manipulate and retrieve data from a database 3. Able to use a database management system to implement and manage databases
Course Schedule	Introduction to Databases; Data Models; Entity-Relationship Model; Relational Model; SQL Basics; Advanced SQL; Database Normalization; Database Design; Transactions and Concurrency Control; Database Security; Case Studies
Textbooks, References, and Supplementary Materials	<ol style="list-style-type: none"> 1. Abraham Silberschatz, Henry F. Korth, S. Sudarshan, "Database System Concepts," 7th Edition, McGraw-Hill, 2019.
Grading Component	<ul style="list-style-type: none"> - Midterm Exam: 25% - Final Exam: 25% - Assignments: 40% - Quizzes: 10%
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