



UNIVERSITAS MATARAM
(University of Mataram)
FAKULTAS TEKNIK
(Faculty of Engineering)
PROGRAM STUDI TEKNIK INFORMATIKA
(Department of Informatics Engineering)

MODULE HANDBOOK DESCRIPTION

Digital System (W22K13)

Module designation	Digital System
Semester(s) in which the module is taught	<i>1 / first year</i>
Person responsible for the module	<i>Fitri Bimantoro, S.T., M.Kom.</i>
Language	<i>Indonesian</i>
Relation to curriculum	<i>Compulsory</i>
Teaching methods	<i>Lectures, Discussions, Case Study</i>
Workload (incl. contact hours, self-study hours)	Contact Hours every week, each week of the 16 weeks/semester including Evaluation <ul style="list-style-type: none"> ● 3 x 50 minutes lecturer/week ● 1 x 60 minutes class exercise/week ● 2 x 60 minute Laboratory ● Self Study hours = 180 minutes/week Total workload 520 minutes/week
Credit points	<i>3 (~ 4,8 ECTS)</i>
Required and recommended prerequisites for joining the module	-
Module objectives/ intended learning outcomes	In this course, students are expected to be able to: <ol style="list-style-type: none"> 1. able to understand the fundamentals of the digital system. 2. able to simulate the use of digital system.

Content	this course discuss about Number systems, Boolean Algebra, Logic Gates, Simplification of Functions, Combination Logic, Flip-flops, and Sequential Logic
Examination forms	<i>Assignments, Contribution/Activeness in Class, Scheduled Exam</i>
Study and examination requirements	<i>Assignements 10%, Quiz 15 %, Practicum 50% Middle Exam 20 %</i>
Reading list	<ol style="list-style-type: none"> 1. M. Rafiquzzaman, Fundamentals of Digital Logic and Microcomputer Design (5th ed.) 2. Hidayat, Sistem Digital. Informatika