UNIVERSITAS MATARAM

(University of Mataram)

FAKULTAS TEKNIK

(Faculty of Engineering)

PROGRAM STUDI TEKNIK INFORMATIKA

(Department of Informatics Engineering)

MODULE HANDBOOK DESCRIPTION

Object Oriented Programming and Analysis (K22B54)

Module designation	Object Oriented Programming and Analysis
Semester(s) in which the module is taught	*4 / fourth year*
Person responsible for the module	*Moh. Ali Albar, S.T., M.Eng.*
Language	*Indonesian*
Relation to curriculum	*Compulsory*
Teaching methods	*Lectures, Discussions, Project*
Workload (incl. contact hours, self-study hours)	Contact Hours every week, each week of the 16 weeks/semester including Evaluation • 2 x 50 minutes lecturer/week • 2 x 60 minutes class exercise/week • Self Study hours = 120 minutes/week Total workload 340 minutes/week
Credit points	*2 (~ 3,2 ECTS)*
Required and recommended prerequisites for joining the module	Information System, Human Computer Interaction, and Database System.

Module objectives/intended learning outcomes	1. Mastering, analyzing and applying the principles of object-oriented analysis 2. Mastering, analyzing and applying object-oriented design principles 3. Mastering, analyzing and applying the principles of object-oriented analysis and design according to case studies
Content	This course discusses introduction, review of Software Development Life Cycle (SDLC), object-oriented concepts, requirements model: use case model, software architecture analysis, use case analysis, case study presentation, database design, element design identification, process modeling, testing and deployment, and introduction to other object methodologies.
Examination forms	*Quiz, Project*
Study and examination requirements	*Quiz 40%,* *Project 60%*
Reading list	1. Rosa A.S., M. Shalahuddin. (2015). Rekayasa Perangkat Lunak. Bandung : Penerbit Informatika. 2. Meilan Anastasia Maharani. (2018). Analisa dan Perancangan Sistem Informasi dengan Code Igniter dan Laravel. Yogyakarta : CV. Lokomedia. 3. Adi Nugroho. (2005). Rational Rose untuk Pemodelan Berorientasi Objek. Bandung : Penerbit Informatika.