



**MATARAM UNIVERSITY**  
*(University of Mataram )*  
**FACULTY OF ENGINEERING**  
*( Faculty of Engineering )*  
**INFORMATION ENGINEERING STUDY PROGRAM**  
*(Department of Informatics Engineering)*

**MODULE HANDBOOK DESCRIPTION**

Object Oriented Programming (IB1105)

Module design	Object Oriented Programming
Semester(s) in which the module is taught	<i>5 / third year</i>
Person responsible for the module	<i>Royana Afwani , ST, MT</i>
Language	<i>English</i>
Relations to curriculum	<i>Compulsory</i>
Teaching methods	<i>Lectures, Discussions, Quiz, Project</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"> <li>● 3 x 50 minutes lecturer/week</li> <li>● 3 x 60 minutes class exercise/week</li> <li>● Self Study hours = 120 minutes/week</li> </ul> Total workload 450 minutes/week
Credit points	<i>3 (~4.8 ECTS)</i>
Required and recommended prerequisites for joining the module	Algorithms and Data Structures

<p>Module objectives/intended learning outcomes</p>	<p>Object Oriented Programming course is to provide mastery of the basic principles Object Oriented Programming in the form of objects , method classes , and concepts inheritance as well as polymorphism. Based on these main objectives, the Object Oriented Programming courses have subject learning outcomes, namely:</p> <ol style="list-style-type: none"> <li>1. Able to make a simple program suitable PBO based with rule PBO programming with language Java programming that is for class , attribute , method types ( constructor , assessor , mutator , main ), and object .</li> <li>2. Able to understand principle main programming oriented object as well as make example the programming that is for abstraction , encapsulation , derivation , and polymorphism .</li> <li>3. Able to understand and make example programming oriented object for abstract methods, abstract classes, and multiple inheritance with interfaces.</li> <li>4. Able to understand and use classes that have is in the java library for make programming oriented object , especially for Graphical User Interface (GUI), Threads, and more .</li> </ol>
<p>Content</p>	<p>This course provides students with knowledge, design, and coding skills about Introduction PBO Programming , Constructor, Inheritance , Encapsulation , Polymorphism , Abstract class, Interface, Static Class.</p>
<p>Examination forms</p>	<p><i>Assignments , Quiz, practicum , Project (Oral Presentation)</i></p>
<p>Study and examination requirements</p>	<p><i>25% Assignments , 25% Quiz, 25% practicum Projects 25%</i></p>
<p>Reading list</p>	<ol style="list-style-type: none"> <li>1. Core Java, Cornel Gary, Hostmann Cay S.</li> <li>2. Haryanto Bambang, Engineering System Oriented Object</li> <li>3. <a href="http://www.docs.oracle.com/java">www.docs.oracle.com/java</a></li> </ol>