Module designation	*Object Oriented Programming*
Semester(s) in which the module is taught	*5*
Person responsible for the module	*Dr. Sri Andayani, M.Kom*
Language	*Bahasa Indonesia*
Relation to curriculum	*Compulsory course*
Teaching methods	*150 minutes lectures and 180 minutes structured activities per week.*
Workload (incl. contact hours, self-study hours)	*Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.*
Credit points	*3*
Required and recommended prerequisites for joining the module	*MAT6307 Algorithm and Programming*
Module objectives/intended learning outcomes	*After taking this course the students have ability to:* *CO1. Demonstrating respect for opinions and work results of classmates in discussion and presentation of program results.* *CO2.Delivering critics, suggestions and ideas in solving the problem of object-oriented programming both independently and in groups* *CO3. Using the concept of object oriented programming for software development and engineering* *CO4. Using the concept of object-oriented programming correctly and efficiently to form a software system to solve a problem.* *CO5. Utilizing python and java programming languages to implement object oriented programming.*
Content	*This course discusses material relating to class and object modeling, and Java programming. The main material covered includes: introduction of object-oriented programming, Java Programming Language and its editor, Class and Object, Instant / Instance, Inheritance / Polarity, Polymorphism / Exception / Exception and Input-Ouput / Input Streams, and Graphic User Interfaces (GUI).*

<table>
<tr><td>Examination forms</td><td>CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude.</td></tr>
<tr><td>Study and examination requirements</td><td>The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.

The final mark will be weight as follow:
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO2, CO3, CO4 and CO5</td><td>a. Individual Assignment
b. Group Assignment
c. Quiz
d. Mid
e. Final Exam</td><td>Presentation / written test</td><td>10%
20%
20%
20%
30%</td></tr>
<tr><td colspan="3">a.</td><td>Total</td><td>100%</td></tr>
</table></td></tr>
<tr><td>Reading list</td><td>

1. Patrick Niemeyer, Jonathan Knudsen, Learning Java, O'reilly, CA,2000.
2. Ariesto Hadi Sutopo & Fajar Masya, Pemrograman Berorientasi Objek dengan Java, Graha Ilmu, 2005
3. Dietel. Java How To Program 4th Edition. Preintice-Hall.2002.
4. Patrick Naughton, Java Handbook : Konsep dasar pemrograman java, McGraw-Hill/Osborne
5. Benny Hermawan, Menguasai Java 2 & Object Oriented Programming, Andi Offset, 2004

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