Fundamental of Information System Development

Course Title: Fundamental of Information System Development					
Course Code: CIT62003	**Student Workload:** 5.67 Hours / Weeks	**Credits:** 2 Credits (3.00 ECTS)	**Semester:** 2nd Semester	**Frequency:** Even Semester	**Duration:** 16 Weeks/ Semester (*Lecture*: 14 weeks; *Midterm assessment* : 1 week; *Final assessment* : 1 week)

1	**Types of Courses:** knowledge	**Contact Hours:** *Lecturing*: 1.67 Hours/ Week; *Practical Work*: 0.00 Hours/ Week	**Independent Study:** *Self-study:* 2.00 Hours/ Week; *Strcutured Assignment*: 2.00 Hours/ Week	**Class Size:** 40 Students

2 **Prerequisites for Participation** (If Applicable)**:**
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3 **Learning Outcomes:**
1. M1: Know and understand the concepts and basics of Information System development
2. M2: Able to analyze differences in the variation of students' conditions as unique individuals
3. M3: Knowing the models used in developing information systems
4. M4: Knowing the stages and activities carried out in the software development process

4 **Subject aims/Content:**
At the end of the course, students are expected:
1. L1: Knowing the concept of data, information and information systems
2. L2: Knowing the concept of information system development
3. L3: Knowing business processes as a trigger for software requirements
4. L4: Know the mapping of business processes with software requirements
5. L5: Know the meaning of the software process model
6. L6: Knowledge of the agile software process model
7. L7: Knowledge of requirements engineering concepts and processes
8. L8: Knowledge of the requirements engineering process
9. L9: Knowing the types of models
10. L10: Know the concept of structured software design
11. L11: Know the concept of object-oriented software design
12. L12: Know the concept of software implementation
13. L13: Know the concept of software testing
14. L13: Know the concept of software testing

5 **Teaching Methods:**
Lecturing, Group Discussion, Case-Based Learning

6 **Assessment Methods:**
Essay, multiple-choice, project assessment, anecdotal record/logbook

7 **This Course is Used in The Following Study Programme/s as Well:**
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8 **Responsibility for Course:**
1. Widhy Hayuhardhika N P
2. Fajar Pradana
3. Djoko Pramono

9	**Other Information:** Bibliography: 1. Pressman, Roger. S, "Software Engineering – A Practitioner's Approach". Edisi ke-7 tahun 2010. (The latest (8th) edition was published in 2015) 2. Sommerville, Ian, "Software Engineering". Edisi ke-9 tahun 2011. (The latest (10th) edition was published in April 2015)