

## Information System and Business Process

Course Title: Information System and Business Process					
Course Code: CIE61014	Student Workload: 5.67 Hours/ Weeks	Credits: 2 Credits (2.67 ECTS)	Semester: 3 <sup>rd</sup> Semester	Frequency: Odd Semester	Duration: 16 Weeks/ Semester (Lecture: 14 weeks; Midterm assessment: 1 week; Final assessment: 1 week)
1	Types of Courses: Content Knowledge Course	Contact Hours: Lecturing: 1.67 Hours/ Week; Practical Work: 0.00 Hours/ Week	Independent Study: Self-study: 2.00 Hours/ Week; Structured Assignment: 2.00 Hours/ Week	Class Size: 40 Students	
2	Prerequisites for Participation (If Applicable): -				
3	Learning Outcomes: 1. M1: Able to distinguish between principles and configurations of organizations and information systems to simplify the problem-solving process (ILO-2) (0,3) 2. M2: Able to distinguish between business processes and functions in the context of organizational management and information systems, both in the scope of education and industry organizations (ILO-5) (0,3) 3. M3: Able to apply BPMN notations so that process models are arranged that can describe the organization's business processes and detect which parts can be improved through the simulation process (ILO-9) (0,2) 4. M4: Able to differentiate within software engineering development paradigm and choose one of them according to the context of the problem want to solve, both in the scope of education and industry organizations (ILO-10) (0,2)				
4	Subject aims/Content: At the end of the course, students are expected: 1. L1: Able to distinguish the definition, principles, rules, and configuration of an organization and information system (M1) 2. L2: Able to define the steps in the business process life cycle and distinguish between business processes and business functions (M2) 3. L3: Able to understand the basic concepts of the business modelling process and apply the modelling process modelling into the BPMN modelling language under the business process issues in the organization (M3) 4. L4: Able to distinguish software engineering concepts and the interrelationships between the software life cycle and the Software development model (M4) 5. L5: Able to explain the phases of requirements engineering, design, implementation, testing, and evolution in the Software development life cycle (M4)				
5	Teaching Methods: Lecturing, Group Discussion, Case-Based Learning, Project-Based Learning				
6	Assessment Methods: Essay, multiple-choice, product assessment, project assessment, anecdotal record/logbook				
7	This Course is Used in The Following Study Programme/s as Well: -				
8	Responsibility for Course: 1. Aditya Rachmadi, S.ST., MTI. 2. Admaja Dwi Herlambang, S.Pd., M.Pd.				
9	Other Information: Bibliography: 1. Mathias Weske. Business Process Management Concepts Languages Architectures.				

**Compulsory Course Handbook**  
**Bachelor Program of Information Technology Education**  
**Computer Science Faculty, Universitas Brawijaya**

	<ol style="list-style-type: none"><li>2. Dumas, Marlon. Fundamentals of Business Process Management.</li><li>3. Alexander Osterwalder. Business Model Generation.</li><li>4. Wayne L. Winston, Operations Research-Applications and Algorithms.</li><li>5. Reynolds, George Walter; Stair, Ralph M. Principles of Information Systems.</li><li>6. Stephen P. Robbins, David A. DeCenzo, Mary Coulter, Ian Anderson. Fundamentals of Management.</li><li>7. Richard L. Daft, Dorothy Marcic. Understanding Management, 5th Edition.</li><li>8. Richard L. Daft. Organization Theory and Design, 10 th Edition.</li><li>9. Henry Mintzberg. The Strategy Concept I: Five Ps of Strategy.</li><li>10. Jeff Madura. Introduction to Business, 4 th Edition.</li><li>11. William G. Nickels. Understanding Business.</li><li>12. Pressman, Roger. S, Software Engineering – A Practitioner’s Approach.</li><li>13. Sommerville, Ian, Software Engineering.</li><li>14. Vliet, Hans van, Software Engineering: Principles and Practice.</li></ol>
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