

Basic Programming

Course Title: Student Development					
Course Code: COM60 014	Student Workload: 11.33 Hours / Weeks	Credits: 4 Credits (6.00 ECTS)	Semester: 1 st Semester	Frequency: Odd Semester	Duration: 16 Weeks/ Semester (<i>Lecture:</i> 14 weeks; <i>Midterm assessment</i> : 1 week; <i>Final assessment</i> : 1 week)
1	Types of Courses: Knowledge Course	Contact Hours: <i>Lecturing:</i> 2.50 Hours/ Week; <i>Practical Work:</i> 0.833 Hours/ Week	Independent Study: <i>Self-study:</i> 4.00 Hours/ Week; <i>Strcutured Assignment:</i> 4.00 Hours/ Week	Class Size: 40 Students	
2	Prerequisites for Participation (If Applicable): -				
3	Learning Outcomes: 1. Able to understand, abstract, and identify simple computational problems into a structured programming approach. 2. M2: Able to compose algorithms in the form of flowcharts and/or pseudocode with a structured programming approach to solve simple computational problems. 3. M3: Able to make computer programs with a structured programming approach for simple computing problems using programming languages.				
4	Subject aims/Content: At the end of the course, students are expected: 1. L1: Able to understand the basic concepts of computer program work processes and the basic concepts of structured programming 2. L2: Able to abstract and identify simple computational problems into a structured programming approach 3. L3: Able to understand the basic concepts of algorithms and describe in flowchart form and/or write in pseudocode 4. L4: Able to apply the concepts of data values, literals, primitive data types, variables, and constants in algorithms and structured programming 5. L5: Able to apply standard output processes in the form of algorithms and structured programming 6. L6: Able to apply standard input processes in algorithms and structured programming 7. L7: Able to apply simple processes (arithmetic and logical calculation processes) in algorithms and structured programming 8. L8: Able to apply the basic logical structure of the selection process in algorithms and structured programming 9. L9: Able to apply the basic logical structure of the iterative process in algorithms and structured programming 10. L10: Able to apply the concept of sub-programs (functions/procedures/methods) in algorithms and structured programming 11. L11: Able to apply the concept of data storage in the form of an array				
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: Bayu Rahayudi, ST., MT.
9	Other Information: Bibliography: M. Deitel, P. J. Deitel. 2015. Java™ How to Program, Tenth Edition. Prentice Hall