



MODULE HANDBOOK DESCRIPTION

Module designation	Basic Programming	
Code	FBS1215	
Semester(s) in which the module is taught	1 / First year	
Person responsible for the module	Dr. Misbahuddin.,ST.,MT Giri Wahyu Wiriasto.,ST.,MT Muhammad Irwan.,ST.,MT Cipta Ramadhani.,S.T.,M.Eng	
Language	Indonesian/English	
Relation to curriculum	Compulsory for all Students	
Teaching methods	Lectures, Small Group Discussion.	
Workload (incl. contact hours, self-study hours)	Contact Hours every week, each week of the 16 weeks/semester: (per week includes) <ul style="list-style-type: none"> • 3 x 50 minutes : Lecture • 3 x 60 minutes : Exercise and Assignment • 3 x 60 minutes : Self-learning Total study hours = 8 hours 30 minutes/week.	
Credit points	3 SKS (~ 4.8 ECTS)	
Required and recommended prerequisites for joining the module	-	
Module objectives/intended learning outcomes	1. Students are able to apply knowledge and analyze the concept of algorithm and language programming. 2. Students are able to apply knowledge the concept of pointer in C++.	PLO2 and PLO3
	3. Students are able to apply knowledge and create sequencial in C++ 4. Students are able to apply knowledge and create selection in C++. 5. Students are able to apply knowledge and create looping process in C++	PLO 2

	6. Students are able to understand and develop simple project in C++	PLO9
Content	Algorithm and language programming, pointer, sequencing and selection, looping.	
Examination forms	<ul style="list-style-type: none"> - Multiple choice examinations and Essay. - Presentation case study. 	
Study and examination requirements	<p>The final grade in the module is composed of:</p> <ul style="list-style-type: none"> a. Per-meeting score = 5 % x 16 meeting = 80%. b. Exercise Report/ Homework/Portofolio = 20%. <p>Students must have a final grade of 65% or higher to pass</p>	
Reading list	<ol style="list-style-type: none"> 1. Introduction to Algorithm, 1989, Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein. MIT Press. 2. Head First Java, 2nd edition, 2008, Bert Bates and Kathy Sierra, O'Reilly. 3. Java™ How to Program, 9th, 2012, Prentice Hall. 4. Algoritma dan Struktur Data Dengan Bahasa Java, 2015, Cipta Ramadhani, Andi Publisher. 	