

Computational Mathematics					
Course Code COM60015	Student Workload 90 Hours	Credits (According to ECTS) 4.5	Semester 1	Frequency Each odd-semester	Duration 16 meetings
1	Types of courses Compulsory (Faculty level)	contact hours 63 Hours	independent study 27 Hours	class size 40 students	
2	Prerequisites for participation				
3	Learning outcomes IS-ILO-4 Graduates can develop professional careers in computer science based on quality aspects, data-driven decision making, be responsible, and make continuous improvements.				
4	Subject aims <ul style="list-style-type: none"> • Students are able to explain discrete concepts in the field of computer science • Students are able to apply logical inference • Students are able to apply the concepts of sets, relationships and functions • Students are able to apply the concepts of series numbers, rows and induction • Students are able to apply the concepts of enumeration, discrete probability, and number theory • Students are able to apply the concept of recursion • Students are able to understand matrices and vectors 				
5	Teaching methods Lectures, case study, class discussion, presentation				
6	Assessment methods Assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment				
7	This module is used in the following degree programs as well Computer Engineering (CE), Computer Science (CS), Information Systems (IS), Information Technology (IT)				
8	Responsibility for module				
9	Other information 1. Munir, Rinaldi, Matematika Diskrit edisi ke-4 revisi ke-5, Penerbit Informatika Bandung, 2011				

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| | <ol style="list-style-type: none">2. Rossen, Kenneth H., Discrete Mathematics and Its Application 7th Edition, McGrawHill, 20123. Ema Utami, Sukrisno, 10 Langkah Belajar Logika dan Algoritma Menggunakan Bahasa C dan C++ di GNU/Linux, Penerbit Andi Yogyakarta, 20054. Jong Jek Siang. Matematika Diskrit dan Aplikasinya Pada Ilmu Komputer. Edisi Kedua, Penerbit Andi Yogyakarta, 2010 |
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