

Computer Science Fundamental					
Course Code	Student Workload	Credits	Semester	Frequency	Duration
COM60016	60 Hours	3	1	Each odd-semester	16 meetings
1	Types of courses Compulsory (Faculty level)	contact hours 42 Hours	independent study 18 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 understand various computer science groups in relation to IT profiles/ professions, basic competencies of IT graduates and basic conceptions of IT fields. • Students are able to explain about computers that include basic understanding of hardware, software and brainware. • Students are able to explain several topics of computer science including internet, network, database, software development and security. • Students are able to apply computational thinking and informatics logic in some examples of computer science cases. • Students are able to apply the concept of information technology integration in the learning process using some IT utilization • Students are able to understand some of the trends of technological development and research in the field of computer science. 				
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 <ol style="list-style-type: none"> 1. ACM Computing Curricula Computer Science 2013, ACM. 2. Naskah Akademik Kerangka Kualifikasi Nasional Indonesia (KKNI) Rumpun Ilmu Informatika dan Komputer v.1., 2015. 				

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| | <ol style="list-style-type: none">3. Future Works Skill, Institute for the Future, http://www.iff.org/futureworkskills/4. Abdul Kadir, Pengantar Teknologi Informasi Edisi Revisi, Penerbit Andi, 2013. |
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