

System Analysis and Design					
Course code CIF62016	student workload 150 hours	credits (according to ECTS) 7.5	semester Sem.4	frequency even. semester	duration 16 meetings
1	Types of courses <i>Compulsory</i> (Study Programme level)	contact hours 105 hours	independent study 45 hours	class size 40 students	
2	Prerequisites for participation .				
3	<p>Learning outcomes</p> <p>Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. (IF-ILO-3)</p> <p>Graduates have the ability to think computationally, design-based thinking, conduct analysis with scientific writing, and are able to apply the values of Technopreneurship in creating product innovations in the Systems or Information Technology domain. (IF-ILO-4)</p> <p>Mastering the theoretical concept and principles of computer science, especially in the aspect of algorithms, programming, intelligent systems, information management, parallel and distributed computing, information security, human-computer interaction, software engineering, and fundamentals of computer systems and networks. (IF-ILO-7)</p> <p>Graduates are able to perform abstraction, modeling, representation, and data acquisition in order to perform the data analysis. (IF-ILO-13)</p>				
4	<p>Subject aims</p> <ol style="list-style-type: none"> Students are able to formulate the requirements specifications of a software system that has been validated and build a model of these requirements with the object approach correctly. Students are able to design the software system with the object approach correctly. 				
5	<p>Teaching methods</p> <p>lectures, case study, class discussion, presentation</p>				
6	<p>Assessment methods</p> <p>assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment</p>				
7	This module is used in the following degree programmes as well				
8	Responsibility for module				

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Other information

1. Pressman RS (2009) Software Engineering A Practitioner's Approach 7th Ed - Roger S. Pressman.
2. Sommerville I (2016) Software engineering (10th edition)