

<b>Cloud Computing</b>					
<b>Course Code</b> CIF62029	<b>Student Workload</b> 90 hours	<b>Credits</b> (according to ECTS) 4.5	<b>Semester</b> Sem. 6	<b>Frequency</b> each even-semester	<b>Duration</b> 16 meetings
<b>1</b>	<b>Types of courses</b> <i>elective</i>	<b>contact hours</b> 63 hours	<b>independent study</b> 27 hours	<b>class size</b> 40 students	
<b>2</b>	<b>Prerequisites for participation</b> Have completed Computer Network course				
<b>3</b>	<b>Learning outcomes</b> IF-ILO-3 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-7 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-11 Graduates are able to plan, develop, manage, and analyze the computer network-based system and the services running on top of them by considering the network security aspects.				
<b>4</b>	<b>Subject aims</b> Students are able to implement and manage services in a cloud-based environment Students are able to integrate various Cloud Computing Based Services according to needs				
<b>5</b>	<b>Teaching methods</b> lectures, case study, class discussion, presentation, practice				
<b>6</b>	<b>Assessment methods</b> assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment				
<b>7</b>	<b>This module is used in the following degree programs as well</b>				
<b>8</b>	<b>Responsibility for module</b>				

<b>9</b>	<b>Other information</b> <ol style="list-style-type: none"><li>1. Wittig, Andreas, and Michael Wittig. Amazon web services in action. Manning Publications Co., 2015.</li><li>2. AWS Team. Overview of Amazon Web Services Whitepaper. Amazon Web Services, Inc., 2019.</li><li>3. AWS Team. How AWS Pricing Works Whitepaper. Amazon Web Services, Inc., 2019.</li><li>4. AWS Team. AWS Security Best Practice Whitepaper. Amazon Web Services, Inc., 2019.</li><li>5. AWS Team. AWS Storage Services Overview Whitepaper. Amazon Web Services, Inc., 2019.</li><li>6. AWS Team. Introduction on DevOps on AWS Whitepaper. Amazon Web Services, Inc., 2019.</li><li>7. AWS Documentation (<a href="https://docs.aws.amazon.com/">https://docs.aws.amazon.com/</a>)</li><li>8. Apache HTTP Server Project Documentation (<a href="http://httpd.apache.org/docs/2.4/">http://httpd.apache.org/docs/2.4/</a>)</li><li>9. NGINX Documentation (<a href="https://nginx.org/en/docs/">https://nginx.org/en/docs/</a>)</li><li>10. MySQL Documentation (<a href="https://dev.mysql.com/doc/">https://dev.mysql.com/doc/</a>)</li><li>11. Journals and research proceedings related to learning materials</li></ol>