

<b>Data Warehouse</b>					
<b>Course Code</b> CIS62016	<b>Student Workload</b> 90 hours	<b>Credits</b> (according to ECTS) 4.5 ECTS (3 for theory and 1.5 for practical work)	<b>Semester</b> 4	<b>Frequency</b> each even-semester	<b>Duration</b> 16 meetings
<b>1</b>	<b>Types of courses</b> <i>Compulsory (study programme level)</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> Completed Database Administration course				
<b>3</b>	<b>Learning outcomes</b> 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.				
<b>4</b>	<b>Subject aims</b> <ul style="list-style-type: none"> <li>• Students are able to explain the concept and comprehend data warehouse characteristics that emphasize extraction, transformation, and loading steps in fulfilling specific data analysis.</li> <li>• Students are able to identify problems and needs for data analysis from an organization as well as organize planning steps for project development.</li> <li>• Students are able to design logical and physical models for data warehouse as well as implement Extract, Transform, Load (ETL) process independently using data integration software.</li> <li>• Students are able to demonstrate the ability in developing data warehouse project, operating data integration software that is able to fulfill exact queries and data analysis.</li> </ul>				
<b>5</b>	<b>Teaching methods</b> lectures, case study, class discussion, presentation				
<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> Inmon, William H. 2005. Building the Data Warehouse. 4th Edition. Wiley Publishing, Inc.				

	<p data-bbox="327 230 1461 300">Kimball, Ralph and Ross, Margy. 2013. The Data Warehouse Toolkit. 3rd Edition. John Wiley and Son, Inc.</p> <p data-bbox="327 320 1461 389">Lane, Paul and Potineni, Padmaja. 2014. Oracle Database Data Warehousing Guide, 12c Release 1 (12.1). Oracle.</p> <p data-bbox="327 409 1461 479">Ponniah, Paulraj. 2010. Data Warehousing Fundamentals For IT Professionals. 2nd Edition. John Wiley and Son, Inc.</p>
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