

<b>Database Administration</b>					
<b>Course Code</b> CIS61010	<b>Student Workload</b> 120 hours	<b>Credits</b> (according to ECTS) 6	<b>Semester</b> 3	<b>Frequency</b> each odd-semester	<b>Duration</b> 16 meetings
<b>1</b>	<b>Types of courses</b> <i>Compulsory (study programme level)</i>	<b>contact hours</b> 84 hours	<b>independent study</b> 36 hours	<b>class size</b> 40 students	
<b>2</b>	<b>Prerequisites for participation</b> Have completed Database Fundamental course				
<b>3</b>	<b>Learning outcomes</b> IS-ILO-1 Graduates are expected to be able to design, build, operate, and evaluate information systems in organizations to align with organizational needs and to produce technological solutions for organizations.				
<b>4</b>	<b>Subject aims</b> <ul style="list-style-type: none"> <li>• Students are able to identify, formulate and analyze the problem of information system requirements of an organization in the context of providing database servers.</li> <li>• Students are able to identify, formulate and analyze database server performance problems in complex data transaction environments, maintain performance, availability, and security of data stored therein.</li> <li>• Students are able to implement database server architecture and perform database governance via modules or commands already available in popular RDBMS tools.</li> <li>• Students are able to demonstrate understanding and application of database server architecture which includes requirements planning, performance monitoring and handling, data security, and mitigating access availability from potential system failures</li> <li>• Students are able to demonstrate ability to set up database server architecture through scenarios of handling key server issues using the popular RDBMS tool</li> </ul>				
<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>				

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**Other information**

1. Craig S. Mullins. (2002) 'Database Administration: The Complete Guide to Practices and Procedures', Addison-Wesley, ISBN 0201741296
2. Agarwal, K.K. and Mohanty, M. and Jamshed, A.(2019) 'Fundamental of Database Administration: Dba', Independently Published, ISBN 9781092885171