## **Database Design and SQL**

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Course Title: Database Design and SQL									
Course Code: CIE61011		Student Workload: 8.50 Hours/	Credits: 3 Credits (4.50 ECTS)	Semester: 3 <sup>rd</sup> Semester		<b>Frequency:</b> Odd Semester		<b>Duration:</b> 16 Weeks/ Semester	
		Weeks						(Lecture and	
								practical work: 14 weeks;	
								Midterm	
								assessment: 1	
								week; Final	
								assessment: 1	
								week)	
1	Types of Courses:		Contact Hours:		Independent Study:		Class Size:		
		nt Knowledge	Lecturing: 1.67 Hour	ek; <i>Practical Work</i> : Week; <i>Str</i>		study: 2.00 Hours/ 4 k; Structured Inment: 2.00		Students	
	Course								
			2.83 Hours/ Week		Hours/ W				
2	Prere	Prerequisites for Participation (If Applicable):							
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3	Learning Outcomes:  1. M1: Able to understand the concept of using database architecture as the basis for data processing transformations under the school or non-school organization's problem domain (ILO-2) (0,35)  2. M2: Able to design various forms of a normalized database (ILO-5) (0,2)  3. M3: Able to manage database system (ILO-5) (0,15)								
	4. M4: Able to design applications that are connected to the database as the deliverable o							deliverable of	
the organizational problem-solving domain process (ILO									
4	Subject aims/Content:								
	At the end of the course, students are expected:								
	1. L1: Able to distinguish between databases, database systems, and database management								
	2	systems (M1) 2. L2: Able to design database conceptually and relationally (M2)							
		3. L3: Able to design database conceptually and relationally (M2)							
		4. L4: Able to configure database management system (M3)							
	5. L5: Able to integrate the database into a developed application (M4)								
5		ing Methods:							
	Lecturing, Group Discussion, Case-Based Learning, Project-Based Learning								
6	Assessment Methods:								
7	Essay, performance test, anecdotal record/logbook, case assessment, project assessment  This Course is Used in The Following Study Programme/s as Well:								
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8	Respo								
		Satrio Agung Wicaksono, S.Kom., M.Kom.							
	Tri Afirianto, S.T., M.T.								
9	Other Information:								
	Bibliography:								
	<ol> <li>Fundamentals of Database Systems (7th Edition) Elmasri-navathe</li> <li>Database Fundamentals First Edition (November 2010) IBM Canada</li> </ol>								
	3.	· · · · · · · · · · · · · · · · · · ·							
	5. Datavase Management systems stu Euriton, Kalliaki isililah								