Database Programming

Course Title: Database Programming							
		Student	Credits:	Semester:	Frequency	: Duration:	
Code:		Workload:	3 Credits	5 th Semester	Odd Semeste		
CIE60045		8.50 Hours/	(4.50 ECTS)	5 Schlester	Semester		
CI	L000 13	Weeks	(1.50 E015)			(Lecture: 14	
		WCCKS				weeks; Midterm	
						assessment: 1	
						week; Final	
						assessment: 1	
						week)	
1	Trunca	of Courages	Contact House	Indonanda	nt Ctuder	Class Size:	
1			Contact Hours:	Independent Study: Class Size: cturing: 1.67 Hours/ Self-study: 2.00 Hours/ 40 Students			
	Course					40 Students	
	Course	, , , , , , , , , , , , , , , , , , , ,					
		ľ	Iours/ Week		: 2.00 Hours/		
	D .	· · · · · · · · ·	' '' (IC A 1: 1	Week			
2		Prerequisites for Participation (If Applicable):					
	_	Database Design and SQL					
3	Learning Outcomes:						
	1. M1: Able to explain concepts in database programming and examine appropriate database						
	objects to support better information system performance (ILO-2) (0,1)						
	2. M2: Able to identify problems that become a need in application development for better						
	database access and performance (ILO-5) (0,3)						
	3. M3: Able to apply basic concepts of database programming to database objects to be used in						
	the development of information systems needed by the organization (ILO-9) (0,3)						
	4. M4: Able to demonstrate understanding and application of database programming on Stored						
	Procedure, Function, and Trigger objects appropriately according to needs in informatio						
	system development (ILO-12) (0,3)						
4	Subject						
	At the end of the course, students are expected:						
	1. L1: Able to determine database objects that suit the needs of information system developm						
	(M1)						
	2. L2: Able to solve database access and performance problems through the application of Sto					application of Stored	
	Procedures, Functions, and Triggers (M2)						
	3. L3: Able to apply Dynamic SQL, Conditional Handling, and nested and recursive SQL on						
	database objects (M3)						
	4. L4: Able to develop database programming results in Stored Procedures, Functions, and						
	Triggers on the selected RDBMS server (M4)						
1	5. L5: Able to complete the provision of Stored Procedure, Function, and Trigger database objects to manage access, improve performance, and response from database servers (M4)						
<u> </u>			mprove performance	e, and response from	m database ser	vers (M4)	
5		Teaching Methods:					
<u> </u>	Lecturing, Group Discussion, Project-Based Learning						
6	Assessment Methods: Essay, Performance Test, Anecdotal Record/Logbook, Project Assessment						
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7	This Co	urse is Used in '	The Following Study	y Programme/s as	s Well:		
	-						
8	Responsibility for Course:						
1	Satrio Agung Wicaksono, S.Kom., M.Kom.						
		Satrio Hadi Wijoyo, S.Si., S.Pd., M.Kom.					
9		Other Information:					
1		Bibliography:					
1	1. Yip, Paul. 2003. DB2 SQL Procedural Language for Linux, Unix, and Windows, Prentice Hall						
1	Professional.						
1	2. Bedoya, Hernando. 2006. Stored Procedures, Triggers, and User-Defined Functions on DB2					Functions on DB2	
			for iSeries, IBM Redl				