Data Warehouse

Course Title: Data Warehouse							
Course Code: Student			Cre	edits:	Semester:	Frequency:	Duration:
CIE60046		Workload		redits		Even Semeste	
	8.50 Hours/			ECTS)			Semester
	Weeks						(Lecture: 14 weeks;
							Midterm assessment:
							1 week; Final
							assessment: 1 week)
1	Types of Co	Types of Courses: Contact Hours:			Independent S	tudy: (Class Size:
	Technological Lecturing: 1.67 Hours			7 Hours/	Self-study: 2.00		10 Students
	Knowledge Course Week		Veek; <i>Practic</i>		Week; Structured Assignment: 2.00 Hours/		
			.83 Hours/V				
					Week		
2	Prerequisites for Participation (If Applicable):						
	Database Design and SQL						
3	Learning Outcomes:						
	1. M1: Able to explain concepts and understand the characteristics of a data warehouse that						
	focuses on the stages of extraction, transformation, and load in meeting specific data analytics						
	(ILO-2) (0,25)						
	2. M2: Able to identify problems and data analytic needs of an organization and develop a stage						
	plan for project development (ILO-5) (0,35)						
	3. M3: Able to design logical and physical models for data warehouse and implement Extract,						
	Transform, Load (ETL) process independently using data integration tools (ILO-9) (0,2)						
	4. M4: Able to demonstrate the ability to develop data warehouse projects, operate data						
	integration tools capable of fulfilling specific data queries and analytics (ILO-12) (0,2)						
4	Subject aims/Content:						
	At the end of the course, students are expected:						
	1. L1: Able to master theoretical concepts related to the definition, characteristics, components						
	and architecture of a data warehouse (M1)						
	2. L2: Able to design a conceptual model of the ETL stage to be carried out (M2)						
	3. L3: Able to plan data warehouse project development (M3)						
	4. L4: Able to demonstrate the ability to develop ETL and operate it periodically to meet specific						
	organizational data analytics (M4)						
	5. L5: Able to demonstrate the ability to develop OLAP that provides visualization or reporting o						
	data specific to the organization (M4)						
5	Teaching Methods:						
	Lecturing, Group Discussion, Discovery Learning, Case-Based Learning						
6	Assessment Methods:						
_	Performance test, essay, portfolio This Course is Used in The Following Study Programme/s as Well:						
7							
_	-						
8	_	lity for Cours					
_	Satrio Agung Wicaksono, S.Kom., M.Kom.						
9	Other Information:						
	Bibliography:						
	1. Inmon, William H. 2005. Building the Data Warehouse. 4th Edition. Wiley Publishing, Inc.						
	2. Kimball, Ralph and Ross, Margy. 2013. The Data Warehouse Toolkit. 3rd Edition. John Wiley						
	and Son, Inc						
	3. Lane, Paul and Potineni, Padmaja. 2014. Oracle Database Data Warehousing Guide, 12c						
	Release 1 (12.1). Oracle.						
	4. Ponniah, Paulraj. 2010. Data Warehousing Fundamentals For IT Professionals. 2nd Ed						sionals. 2nd Edition.
	Joh	n Wiley and S	on, Inc				