1. (\*)

Item with (\*) are only for the ABEEK Program.

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(Year)	2016		(Semester)	1		
(Instructor)			(Course Title)			
(Course No.)	2150565701	(Class)	01	(Course Classification)	-	
	100					
(Open to)	4	( *) (Credit)	3 (1 )	(Class hour per week)	3	
(*) (ABEEK Classification)	- /	(*) (ABEEK Requirement)	- /	(Department)		
(Office)		(Telephone)		(e-mail)		
(*) (Teaching Assistant)		(*) (Office Hour)				
(Course Description)	This is a sequel of the database course offered during the last semester, and this course requires students to have taken the prerequisite course. Students should have a knowledge on database concepts and SQL. This course covers advanced materials of database systems, which include transaction management, storage, indexing, and object-relational databases. New topics such as data warehouse, OLAP, etc. are also covered. Course materials will be posted for students.					
(Ssq)	(Course Objectives)					
1	(Course Objectives)					
2						
3						
(Lecture Type) 가	( 90 %) 45% (midterm) + 45%	( 00 %) (final exam) + at most 1	( 10 %) 0% (assignmer	( 00 %)		
(Course Grading)	* / 11/					
(Required Texts)						
(*) (Bulletin Board)						
(*) (Prerequisite Courses)						

2.

(Week)	(Keyword)	(Description)	(Texts)	(Note)
1	Transaction Management	transaction concepts	chapter 1	
2	Transaction Management	serializability, recoverability	chapter 1	

## (SYLLABUS)

(Week)	(Keyword)	(Description)	(Texts)	(Note)
3	lock - based protocol, multiple granularity  Concurrency control		chapter 2	
4	Concurrency control	deadlock, weak level of consistency	chapter 2	
5	failure classification, log-based recovery, buffer management		chapter 3	
6	Recovery	WAL, remote backup	chapter 3	
7	Storage	Physical stortage, RAID, Tertiary storage	chapter 4	
8	Storage	Datbase buffer Midterm examination	chapter 4	
9	Indexing	Indexing, B+-tree	chapter 5	
10	Indexing	static hashing, dynamic hashing, bitmap	chapter 5	
11	Query processing	transformation of relational expressions query processing, selection, sorting	chapter 6	
12	Query processing	join operation, evaluation of expressions choice of evaluation plans, query optimization	chapter 6	
13	ORDB	object - relational databases	chapter 7	
14	OLAP OLAP		chapter 8	
15	Warehouse/mining	Data warehouse, data mining	Chapter 8	
16		final exam		

## (SYLLABUS)

3. 가 (\*)

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	/		1, 2, 3

## (SYLLABUS)

4. (\*)

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