Database Systems

Basic Course Information

Course Number	02005112	Subject Category	Compulsory (C)
Class Format	Lecture	Credit Type and Number of Credits	1
Department	Computer	Student Category	Year 3
Period of Study	Semester 1	Classes per Week	1
Required Materials			
Instructor	Hideyuki Kobayashi(Hide)	Saung Hninpwint Ooh	Phrapai

Course Objective

The course provides students with the fundamental concepts of database systems. It covers data models (ER, relation), query languages (relation algebra, SQL), and implementation techniques of database management systems.

Evaluation (Rubric)

Evaluation (Rubric)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)
	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)
Relational algebra	Explain relational algebra operations	Understand relational algebra	Doesn't understand relational algebra
SQL	embedded SQL and understand simple applications You can embed	SQL operations, functions, etc,. Able to use calculations, logical operations, functions, etc.	SQL, operations, functions, etc,. can not use calculations, logical operations, functions, etc.

Relationship with Learning Outcomes

G(5) As an engineer, attitude to act with awareness of social roles and responsibility to make a better society.

C(1) Ability to operate and administer the computer software and hardware

Please change

Teaching Method

Outline:	Learning throw the experiments
Class Format:	Lab work
Please Note :	

Course Plan

Semester 1	Contents and Method of Course	Goals	Related MCC		
8/May	Date base overview and data model	Understand DB overview	V-D	8	105
			V-D	8	106
15/May	Date base overview and data model	understand DBMS	V-D	8	105
			V-D	8	106
22/May	Date base overview and data model	Install MySQL, and how to use it	V-D	8	105
			V-D	8	106
29/May	relational algebra	Understand relational algebra	V-D	8	105
			V-D	8	106
5/June	holiday				
12/June	relational algebra	Understand relational algebra	V-D	8	105
			V-D	8	106
19/June	relational algebra	Understand relational algebra and information math matics	V-D	8	105
			V-D	8	106
26/June	Prepare Exam				
3/July	Midterm Exam				
10/July	Midterm Exam				
17/July	Database design	understand database design	V-D	8	105
			V-D	8	106
24/July	Database Design and functional Dependency	understand database design and functional dependecy	V-D	8	105
			V-D	8	106
5/Aug	Draw ER Diagram	able to draw er diagram	V-D	8	105
			V-D	8	106
7/Aug	Normal Form	Understand Normal	V-D	8	105
			V-D	8	106
14/Aug	Holiday				
21/Aug	Normal Form	Understand Normal	V-D	8	105
			V-D	8	106
28/Aug	MySQL	Make SQL DB from ER diagram	V-D	8	105
			V-D	8	106
4/Sept	SQL and PHP	Using SQL on PHP server	V-D	8	105
			V-D	8	106
11/Sept	Prepare Final Exam				
18/Sept	Final Exam				

Do not

	Examination	Quiz	Mutual Evaluations between students	Report	Portfolio	Other
Basic Ability	70					
Technical Ability				30		
Interdisciplinary Ability						