

COURSE REPORT (CR)

Najran University
College of Computer Science and Information Systems
Department of Computer Science

Course Name: Fundamentals of Database Systems

Course Code: 380 CSS-3

Prepared By:

Soad Moahmmed

June 2017

Course Report

Institution: Najran University	Date of Course Report: June, 2017
College/ Department: College of Computer Science and Information Systems/Department of Computer Science	

A. Course Identification and General Information

1. Course title :Fundamentals of Database Systems Code # 380CSS-3 Section # 331female						
2. Name of course instructor: Soad Mohammed Location: Main Campus/ Najran						
3. Year and semester to which this report applies. 1437-1438(2016/2017) Second Semester						
4. Number of students startingthe course? <input type="text" value="3"/> Students completing the course? <input type="text" value="3"/>						
Started 12 Students Completing the course: 12Student						
5. Course components (actual total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30	6	30	-	-	63
Credit	2	0	1	-	-	3

B. - Course Delivery

1. Coverage of Planned Program			
Topics Covered	Planned Contact Hours	Actual Contact Hours	Reason for Variations if there is a difference of more than 25% of the hours planned
Introduction to Databases and DBMS	4 Hrs	4 Hrs	N/A
Introduction to SQL	4 Hrs	4Hrs	N/A
Entity / Relationship Model (E/R)	4 Hrs	4 Hrs	N/A

Relational Data Model	4 Hrs	4 Hrs	N/A
Functional Dependencies	2 Hrs	2 Hrs	N/A
Normalization	4 Hrs	4 Hrs	N/A
Relational Algebra	4 Hrs	4 Hrs	N/A
Database Design (Object Definition Language ODL)	2 Hrs	2 Hrs	N/A
<p>2. Consequences of Non Coverage of Topics</p> <p>For any topics where the topic was not taught or practically delivered, comment on how significant you believe the lack of coverage is for the course learning outcomes or for later courses in the program. Suggest possible compensating action.</p>			
Topics (if any) not Fully Covered	Effectuated Learning Outcomes	Possible Compensating Action	
N/A	N/A	N/A	

3. Course learning outcome assessment.

	List course learning outcomes	List methods of assessment	Percentage of Achievements (a student achieves a CLO if he achieves 65% of it)	Summary analysis of assessment results
1	Explain the general concepts of database, database system, data, DBMS, database design, database programming languages	Lectures	100%	.

2	Design the best E/R diagram data model for a realistic application.	Lectures, small group work, small group discussion	100%	Students do marked small project
3	Construct an Object-Oriented data model for simple application	Lectures	100%	Student not attend for important lectures
4	Create a normalized, well-structured relational data model by using database theories such as the conversion from E/R to set of relational tables and functional dependencies, canonical covers, decomposition and normalization techniques	Lectures	100%	Student do more exercise
5	Solve simple queries by using the operations (selection, projection, join, Cartesian product) of the theoretical database language Relational Algebra	Lectures	100%	Student do more exercise
6	Write statements in SQL data definition language (Create, etc.) and data manipulation language (select, etc.) in order to manage relational database schemas and instances.	Lectures, debate, small group discussion, lab demonstrator	100%	Students were aware about SQL
8	Solve effectively in teams the course project goal within time and resource constraints.	Small group work, role playing	100%	Student work with group
9	Practice communication skills in writing and presenting the course project.	Project	100%	

Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.

- Encourage them to be more responsible.
- Devote more time to solve more quires by using relation algebra.
- Devote more time to solve more quires by using SQL.
- Encourage them to be attending tutorial and lab.

4. Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification. (Refer to planned teaching strategies in Course Specification and description of Domains of Learning Outcomes in the National Qualifications Framework)

List Teaching Methods set out in Course Specification	Were these Effective?		Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties.
	No	Yes	
TS-1: Relate Course Learning Outcomes (CLOs) to the topics		Yes	
TS-2: Lectures: using PPT presentation and other software to address verbally in front of students the concepts associated with examples with taking help of writing on the board as needed.		Yes	
TS-3: LAB Work: Every student in the lab is using a separate PC. Practically showing them how to install the needed software, to write a quires, and execute it.		Yes	The lab works must be consistent and aligned with the theory part. I suggest to have on instructor teaching both sections (Lab and Theory)

TS-4: Tutorial: In the tutorials, we ask students to solve some problems in front of each other's and give them some comments and the right answers.	NO		Tutorials are compulsory but students did not attend the tutorials. We arranged several times for tutorials but only few students attended.
TS-5: Cooperative Learning: Divide students into groups who are given project to be submitted by the end of the semester.	YES		give them course term project.
TS-6: Communication: Given to students the main requirements of the project's reports and presentation	YES		project was given.
TS-7: Encourage students to browse different journals, seminars or websites at their leisure time to have better understanding about SQL	NO		The most important difficulties faced that students are weak in English and they don't have the motivation to even read the handouts of the course.
TS-8: Recall the topics of last lecture and the critical issues based on different topics, which certainly helps students to recall memory frequently and store that topic in their memory for long term		Yes	

Note: In order to analyze the assessment of student achievement for each course learning outcome, student performance results can be measured and assessed using a KPI, a rubric, or some grading system that aligns student work, exam scores, or other demonstration of successful learning.

C. Results

1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Explanation of Distribution of Grades
A	1	33.34%	In this semester all students achieved the Clos This patch are interested for this course

B	1	33.33%	
C	1	33.33%	
D		0%	
F	0	0%	
Denied Entry	0	0%	
In Progress	0	0%	
Incomplete	0	0%	
Pass	0	0%	
Fail	0	0%	
Withdrawn	0	0%	

2. Analyze special factors (if any) affecting the results

The most important factors that affect the results are:

1. Students' backgrounds in English are very weak.
2. Students' backgrounds in mathematic are very weak.
3. Students' for solve problem are very weak.

3. Variations from planned student assessment processes (if any) (see Course Specifications).

a. Variations (if any) from planned assessment schedule (see Course Specification)

Variation	Reason

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b. Variations (if any) from planned assessment processes in Domains of Learning (see Course Specification)	
Variation	Reason
N/A	N/A

4. Student Grade Achievement Verification (eg. cross-check of grade validity by independent evaluator).	
Method(s) of Verification	Conclusion
Course coordinator checks all exams and make sure that they are related to CLOs and appropriate for the course.	The coordinator of the course checked all exams and other related materials related to the course. The course coordinator gave some comments and suggested to reduce the complexity levels of some exams.
By the end of the semester, the curriculum committee review all courses and approve actions to be taken in the subsequent semester.	The curriculum committee will review the final report of the course and will approve a list of actions to improve the quality of the course.
The vice dean and the dean of the college have to review and approve the final grades.	The dean and vice dean discussed the grades with me. They were surprised with the low percentage of passing. Based on my justification, they approved the students' grades.
A list of staff members have to check the grades of each one of the students in all exams.	The college assigned one faculty member to recheck the validity of the students' grades. More specifically, he checked the grades of students in all exams. Minor changes were happened based on his rechecking.

D. Resources and Facilities

1. Difficulties in access to resources or facilities (if any)	2. Consequences of any difficulties experienced for student learning in the course.
Each student must have a hard copy text	Students are only studying the lecture handouts that are not

book.	enough for full understanding.
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E. Administrative Issues

1 Organizational or administrative difficulties encountered (if any) N/A	2. Consequences of any difficulties experienced for student learning in the course. N/A
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F Course Evaluation

1 Student evaluation of the course (Attach survey results report)
<p>a. List the most important recommendations for improvement and strengths</p> <p>According to the students' opinion in the online course survey, the following recommendations are found:</p> <p>No weakness for evolution</p>
<p>b. Response of instructor or course team to this evaluation</p> <p>1. A two pages course syllabus was distributed to students in the first week. Course syllabus contains the learning outcomes, weekly topics, assessment methods, etc.</p> <p>2. All assessment methods were reviewed and approved by the course coordinators.</p> <p>3. Teaching strategies were based on outcomes-based educational system. For example, active learning was use, etc.,</p> <p>4. The main reason of their responses is the grade. They were trying to get grades without studying and achieving the minimum requirement of learning outcomes.</p>
<p>2. Other Evaluation (e.g. by head of department, peer observations, accreditation review, other stakeholders)</p> <p>The evaluation of course learning outcomes using students' performances.</p>

a. List the most important recommendations for improvement and strengths

b. Response of instructor or course team to this evaluation

Refer to section B. CLOs achievements using students' performance.

G. Planning for Improvement

1. Progress on actions proposed for improving the course in previous course reports (if any).

Actions recommended from the most recent course report(s)	Actions Taken	Results	Analysis
vote more time to Solve simple queries by using SQL	Yes	Students were aware about SQL	Students do more exercise for SQL Last semester students achieved the clo by 87.5 but in this semester achieved by 100%
Devote more time to Solve simple queries by using the operations (selection, projection, join, Cartesian product) of the theoretical database language Relational Algebra	Yes	Student do more exercise	The result of student best than last semester 100%
Devote more time to solve problem for normalization	yes	Students were aware about normalization	The result of student best than last semester 100%

2. List what actions have been taken to improve the course (based on previous CR, surveys, independent opinion, or course evaluation).

Actions Taken:

1. Give students more exercise for the relation algebra
2. Give students more exercise for SQL.
3. Give students more exercise for normalization

3. Action Plan for Improvement for Next Semester/Year

Actions Recommended	Intended Action Points and Process	Start Date	Completion Date	Person Responsible
vote more time to Solve simple queries by using SQL	Give more exercises	Week2 Week10	Week 10	Instructor
Devote more time to Solve simple queries by using the operations (selection, projection, join, Cartesian product) of the theoretical database language Relational Algebra	Give more exercises	Week 10	Week11	Instructor
Devote more time to solve problem for normalization	Give students more exercise for normalization	Week 11	Week12	Instructor

Name of Course Instructor: Soad Mohammed

Signature: _____

Date Report Completed: June, 21, , 2017

Program Coordinator: Nyla Khadm

Signature: _____

Date Received: _____