

ATTACHMENT 2 (g)

Course Report

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

**COURSE REPORT
(CR)**

Digital Logic Design

CSI 223

Dr. Yosry A. Azzam

A separate Course Report (CR) should be submitted for every course and for each section or campus location where the course is taught, even if the course is taught by the same person. Each CR is to be completed by the course instructor at the end of each course and given to the program coordinator

A combined, comprehensive CR should be prepared by the course coordinator and the separate location reports are to be attached.

Course Report

For guidance on the completion of this template refer to the NCAAA handbooks or the NCAAA Accreditation System help buttons.

Institution : Majmaah University	Date of Course Report: 30/7/1435
College/ Department: College of Science in Zolfi/ Computer Science & Information	

A. Course Identification and General Information

1. Course title: Logic Design	Code # CSI 223	Section #1				
2. Name of course instructor: Dr. Yosr A. Azzam		Location: College of Science in Zolfi				
3. Year and semester to which this report applies.: 1435/ 2nd Semester						
4. Number of students starting the course?	16	Students completing the course? 14				
5. Course components (actual total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30	0	30	0	0	60
Credit	30	0	15	0	0	45

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
Course Introduction	5	5	
Introduction to digital systems and their applications			
Binary systems	10	10	
Boolean Algebra and logic gates	15	15	
Gate Level Minimization	10	10	
Combinational Logic	15	15	
Synchronous Sequential Logic	15	15	

2. Consequences of Non Coverage of Topics

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.

Topics (if any) not Fully Covered	Effectuated Learning Outcomes	Possible Compensating Action

3. Course learning outcome assessment.

	List course learning outcomes	List methods of assessment	Summary analysis of assessment results
1	Gain knowledge and understand of Binary Systems, Boolean Algebra and Logic Gates.	1- Written Exam 2-Homeworks 3- Lab assignments 4- Class Activities	The average of results was 71.4 % for 14 students.
2	Understand of Canonical and standard forms, and Gate level minimization.		
3	Gain knowledge of Combinational Logic, Storage elements, and Sequential synchronous circuits		
4	Demonstrate the use of number systems and codes as well as explaining the mathematical characteristics of logical gates.	1- Written Exam 2-Homeworks 3- Lab assignments 4- Class Activities	
5	Apply truth tables, Boolean algebra, Karnaugh maps, and other methods to the design and characterization of digital circuits as well as to obtain design equations.		
6	Implement design equations and procedures to design combinational systems consisting of gates.		
7	Apply alternative techniques to simplify the design process yielding innovative designs.		
8	Submit a group final project at the end of the semester that involves the implementation of design theory, and the use of a simulation package to develop a complex digital circuit.	1- Written Exam 2-Homeworks 3- Lab assignments 4- Class Activities	
9	Each student should submit a report and give a presentation of his work.		

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

Increase the presentations that students has to do in order to improve their interpersonal and communication skills.

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	
Lectures Lab demonstrations		✓	Some Students sleep during the lecture. Action: They have to be asked to solve problems after explanations given to them relating to a subject.
Case studies		✓	Students usually forget what they have learnt before. Action: Each class students have to be remembered by what being studied before.
Individual presentations		✓	Students are usually ashamed of being in front of their colleagues. Action: They are being encouraged by giving them marks for that presentations.
Brainstorming		✓	Students find it difficult to make brainstorming. Action: They are being helped by simplifying them the subjects.
Small group discussion		✓	

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	2	14.28	
B	4	28.56	
C	1	7.14	
D	3	21.42	
F	4	28.57	
Denied Entry	0	0	
In Progress	0	0	
Incomplete	0	0	
Pass	10	71.42	
Fail	4	28.57	
Withdrawn	0	0	

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

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

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

4. Student Grade Achievement Verification (eg. cross-check of grade validity by independent evaluator).	
Method(s) of Verification	Conclusion

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.
---	---

E. Administrative Issues

1 Organizational or administrative difficulties encountered (if any)	2. Consequences of any difficulties experienced for student learning in the course.
--	---

F Course Evaluation

1 Student evaluation of the course (Attach survey results report)
a. List the most important recommendations for improvement and strengths a- Strengths: - The teacher explains course objectives to the students at the start of the semester. -The teacher has full knowledge of the course content. b- Criticisms: - nothing

b. Response of instructor or course team to this evaluation
2. Other Evaluation (e.g. by head of department, peer observations, accreditation review, other stakeholders)
a. List the most important recommendations for improvement and strengths
b. Response of instructor or course team to this evaluation

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
a. Freeware SW was suggested to enable students implement what they had studied in their lectures	The SW has been put on teacher home page and students were able to download it and use it in their homes	Improvements in their experimental and lab skills.	
b.			
c.			

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

3. Action Plan for Improvement for Next Semester/Year

Actions Recommended	Intended Action Points and Process	Start Date	Completion Date	Person Responsible
a. Give students more questions to solve in their homes				
b. Make monthly online assessment quizzes for students in order to improve their preparations and their use of internet and improve their communication skills				
c.				
d.				
e.				

Name of Course Instructor: _____

Signature: _____ Date Report Completed: _____

Program Coordinator: _____

Signature: _____ Date Received: _____