ATTACHMENT 2 (g)

Course Report

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

COURSE REPORT
(CR)

Data Structure - CIS 312

Dr. Ahmed Shehata

1435-1436H
2014-2105

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.

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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 :**16/3/1436**

College/ Department: Az Zulfi College of Science / Computer Science and Information Department

A.   Course Identification and General Information

1. Course title : **Data Structure**   Code #   **CIS 312**   Section # 1037

2. Name of course instructor   **Dr. Ahmed Shehata**   Location: **College of Science in Azulfi**

3. Year and semester to which this report applies. **5th Level**

4. Number of students starting the course? | 9 | Students completing the course? | 5 |

5. Course components (actual total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	45	-	30	-		75
Credit	45	-	15			60

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
• Review of C++ Topics • Classes and Structures	12	16	A weakness of background programming language C++ of all students.
• Basic data structures. • Arrays (Insertion & Deletion) • Sorting(non-recursive)	12	12	---

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• Recursion • Sorting Algorithms • Pointers • Linked Lists	12	12	
• Stacks • Queues and Priority Queues	9	9	
• Trees • Searching algorithms	9	9	
• Graphs • Networks • File Structure	9	9	

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	Effected Learning Outcomes	Possible Compensating Action
Hashing	Not	Could be learn in Algorithms Course
Graphs	Not	Could be learn in Algorithms Course
Networks	Not	Could be learn in Algorithms Course
File Structure	Not	Could be learn in Algorithms Course

3.   **Course learning outcome assessment.**

	List course learning outcomes	List methods of assessment	Summary analysis of assessment results
1	Analysis basic data structures and their relative advantages and disadvantages.	Homework assignments Lab assignments Class Activities Quizzes	
2	Describe data structure types and their process (storing , insertion, deletion , and search).	Written programs with C++ Homework assignments Lab assignments problems	
3	Describe the linked list, Stack, Queue and Trees.	Class Activities Quizzes Observations	The average of results ##74.71 (C) for 5 students.
4	Update data structure type by any process: insertion, deletion , and search.		
5	ability to implement and use common data structures for any	Homework assignments	

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	actual problem such as:	• Exercises	
	• **Patient Records**	• Problem solving	
6	• **Web text**	• Oral quizzes	
	• **Web search**	• Essay questions	
7	• **Fuel Station**	• Encourage students to use programming by C++ or Visual C	
8	Prepare mini project	Lab	

Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.
1- Partition the students into groups weakly
2- Each group will execute an individual task
3- Discussion and Evaluate each group through all other students
4- Collect all tasks and prepare as a project

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 • Homework • conversation		√	
• Conversation between student. • Indirected questions. • Work group for some cases.		√	

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• Making groups and distributed tasks. • Presentation skills. • Skill constructive Monetary and dialogue and discussion with others • The ability to clearly express an opinion, and accept the opinions of others	√	
• E-mail • Web sit	√	

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
C	1	20%	The weakness of the students achievement level due to their weakness in Programming and English language and their careless.
D+	1	20%	
D	2	40%	
F	1	20%	
Denied Entry	0	-	
In Progress	5		
Incomplete	0		
Pass	4	80%	
Fail	1	20%	
Withdrawn	4		

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

The students have not complete skills background in programming languages, and the Data structure course is based on the skills programming.

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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
Hashing algorithm did not learn	Not enough weeks
Graphs algorithm did not learn	Not enough weeks
Networks algorithm did not learn	Not enough weeks

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

Variation	Reason
Lab practical	Students have not enough skills in programming

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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.
Using Lab in application practical	Students have not enough skills in programming

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E.   Administrative Issues

1 Organizational or administrative difficulties encountered (if any) *Nothing*	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 I recommend to prepare a workshop training   for the students have not enough skills in programming
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

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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. Scientific presentations	1 Scientific presentation (1x5)	Successive process but there is a problem which is the weakness of English language	5 Marks from the 60 marks of the student activities
b. Homeworks	2 Homeworks (2x5)	Successive process but there is a problem which is the make a copy of the homework without understanding which is written	10 Marks from the 60 marks of the student activities
c. Quizzes	1Quizze (1 x10)	Successive process but there is a problem which is the weakness of English language	5 Marks from the 60 marks of the student activities
d. Practical Exam	1 Exam(1 x10)	Successive process but there is a problem which is the carless and weakness in programming basics.	15 Marks from the 60 marks of the student activities
e. Exams	2 Exams (1x15+1 x20)	Successive process but there is a problem which is the weakness of English language	25 Marks from the 60 marks of the student activities

List what actions have been taken to improve the course (based on previous CR, surveys, independent opinion, or course evaluation).
1- Scientific presentations.
2- Quizzes.
3- Exams
4-Questionnaires to students on the course evaluation.
5-Questionnaires to students on the exam evaluation.
6- **Continuous training courses on teaching improvements for staff members.**

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3. Action Plan for Improvement for Next Semester/Year				
Actions Recommended	Intended Action Points and Process	Start Date	Completion Date	Person Responsible
a. Review on C++ and programming basics	Giving extra hours in programming c++ basics			The college management
b. Increase cares students	Quiz after each chapter			Instructor of the course
c. Concentrate on the weakness students in practical exercises	Practical exercises during each lecture			Instructor of the course
d. Extra practical exercises for the weakness students after each lecture.	Practical homeworks			Instructor of the course

Name of Course Instructor: Dr. Ahmed Shehata

Signature: _____ **Date Report Completed:** __18/3/1436_____

Program Coordinator: Dr. Yousry Azzam

Signature: _____ **Date Received:** _____