ATTACHMENT 2 (g)

Course Report

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course REPORT
(CR)

Compiler Design
(CSI 413)
Sami Smadi

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.

Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكـة العربيـة السعوديـة
الهيئـة الوطنيـة للتقويـم
والاعـتمـاد الأكـاديـمـي

Course Report

For guidance on the completion of this template refer to the NCAAA handbooks or the NCAAA Accreditation System help buttons.
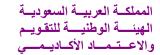
Institution Almajmaah university	Date of Course Report 29/7/1435

College/ Department College of Science / Department of Computer science and Information

A. Course Identification and General Information

Course title **Compiler Design**   Code #   CIS 413-Z   Section # 259

2. Name of course instructor   Sami Smadi   Location College of Science in Azulfi

3. Year and semester to which this report applies. 2nd Semester 1434/1435

4. Number of students starting the course?   5   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
1. Introduction to Compilers: The role of language translation in the programming process; Comparison of interpreters and compilers, language translation phases, machine-dependent and machine-independent aspects of translation, language translation as a software engineering activity	3	6	The student need more background information in this field
2. Lexical Analysis: Application of regular expressions in lexical	6	6	

Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكــة العربيــة السعوديــة
الهيئــة الوطنيــة للتقـويـم
والاعـتـمـاد الأكـاديـمــي

Topic		
scanners,		
3. Lexical Analysis: hand coded scanner vs. automatically generated scanners	**6**	**6**
4. Lexical Analysis: formal definition of tokens, implementation of finite state automata.	**3**	**3**
5. Syntax Analysis: Revision of formal definition of grammars, BNF and EBNF; bottom-up vs. top-down parsing,	**6**	**8**
6. Syntax Analysis: tabular vs. recursive-descent parsers, error handling,	**6**	**5**
7. Parsers Implementation: automatic generation of tabular parsers, symbol table management, the use of tools in support of the translation process	**3**	**3**
8. Semantic Analysis: Data type as set of values with set of operations, data types, type-checking models, semantic models of user-defined types, parametric polymorphism, subtype polymorphism, type-checking algorithms.	**3**	**2**
9. Intermediate Representation, code generation: Intermediate and object code, intermediate representations, implementation of code generators	**3**	**4**
10. Code generation: code generation by tree walking; context sensitive translation, register use.	**3**	**3**

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

Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكــة العربيــة السعوديــة
الهيئـــة الوطنيـــة للتقويـم
والاعـتـمــاد الأكـاديـمـــي

No topics	-	-

3.   Course learning outcome assessment.

	List course learning outcomes	List methods of assessment	Summary analysis of assessment results
1	Understand the main abstract concepts related to the layered communication architecture	Written Exam Homework assignments Lab assignments Class Activities Quizzes	
2	Students will explain the core concepts of the computer network as will as network protocols as OSI ans TCP/IP	Written Exam Homework assignments Lab assignments Class Activities Quizzes Observations	
3	Explain the technology infrastructure and network requirements for local LAN.		
4	Understand the legal, ethical, and managerial requirements of internet useg		The average of results 74.71 (C+) for 21 students.
5	Analyze and implement some of the most advanced routing and congestion control algorithms.		
6	- Evaluate the performances of computer networks (through mathematical modeling and simulation)	Written Exam Homework assignments Lab assignments Class Activities Quizzes	

Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكـة العربيـة السعوديــة
الهيئـــة الوطنيـــة للتقـويـم
والاعــتـمــاد الأكـاديـمــي

Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.
- Individual presentations
- Brainstorming
- Small group discussion
- Whole group

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.		√	
• 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.

Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكــة العربيــة السعوديــة
الهيئـــة الوطنيـــة للتقويـــم
والاعـــتـــمــاد الأكـاديـمـــي

C.   Results

1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Explanation of Distribution of Grades
A+	0	0	
A	0	0	
B+	0	0	
B	0	0	
C+	0	0	
C	1	20	
D+	1	20	
D	3	60	
F	0	0	
Denied Entry	0	0	
In Progress	5	100%	
Incomplete	0	0	
Pass	5	100%	
Fail	0	0	
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

Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكــة العربيــة السعوديــة
الهيئـــة الوطنيـــة للتقـويـم
والاعــتــمـــاد الأكـاديــمــي

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
Interview students, including answers and model answer sheet and learning resources for decision	Good result

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

Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكــة العربيــة السعوديــة
الهيئــــة الوطنيــــة للتقـويـم
والاعـتـمــاد الأكـاديـمــــي

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.			
b.			
c.			
d.			

Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكــة العربيــة السعوديــة
الهيئـــة الوطنيــــة للتقويــم
والاعـتـمـــاد الأكـاديـمــــي

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.				
b.				
c.				
d.				
e.				

Name of Course Instructor: _____

Signature: _____ **Date Report Completed:** _____

Program Coordinator: _____

Signature: _____ **Date Received:** _____