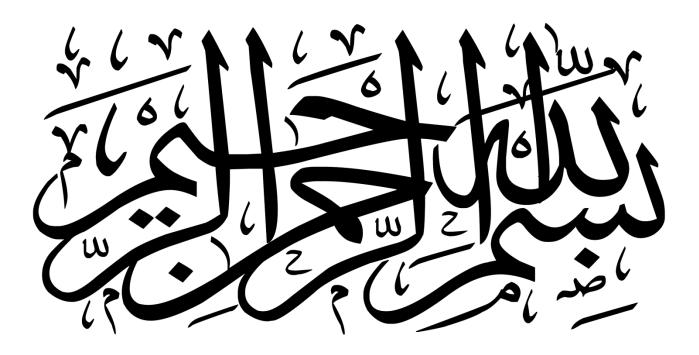


### Introductory guide for computer science program

College of Computer and Information Sciences



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## **Program foundation**

As a result of increased demand for sophisticated computing environments, applications, and scientific research inside and outside of the academic field, today's organizations in both public and private sectors need high qualified graduates relevant to the workplace. Jouf University is committed to developing employable graduates in the field of computer science through establishing this program and achieving its goals and objectives. Specifically, <u>the program was established for the following reasons:</u>

- To compensate the shortage in computer science specialty for the local and regional communities.
- To increase the level of dependency on national graduates.
- To offer training, consultancy, and services in the field of Computer Science to the community.
- To prepare graduates for higher studies in computer science domain.
- To contribute to the technological development plans of the Kingdom of Saudi Arabia as a partial fulfillment of the national development plan.
- Contribute to achieving the vision of the Kingdom of Saudi Arabia 2030.

The program contributes to the mission of the college as well as the university. It focuses on preparing cadres in the domain of computer science to serve the local as well as regional communities in different aspects of technological development.

### **Program vision**

Excellence locally and internationally in education, scientific research and community service in the field of computer science.

## **Program mission**

Providing distinct educational, professional, research and societal outputs locally and regionally in the field of computer science consistent with quality standards and contribute to filling the needs of the labor market and community service.

### **Program Goals**

- Creating an attractive and integrated academic environment that provides equal opportunities for learning and developing various skills for program's stockholders.
- Contributing to enhancing the academic reputation of computer science program.
- Providing educational outputs that meet the requirements of the local labor market.
- Supporting and enhancing knowledge production in the field of computer science.
- Enhancing the benefit of local community from the field of computer science
- Achieving business sustainability in the program

### **Program learning outcomes**

	NQF Learning Domains and Learning Outcomes	Teaching Strategies	Assessment Methods	
1.0	Knowledge and understanding			
K1	Recognize the concepts of computing and mathematics appropriate to the discipline	•Lectures •Tutorials	•Exams •Assignments	
K2	Recognize the essentials of design, implementation, and evaluation of computer-based system, process, component, or program to meet desired needs	<ul><li>Self-learning</li><li>Handouts</li><li>Problem Solving</li></ul>	•Quizzes •Homework	
K3	Define the computing requirements to solve computer-based problems and state them in appropriate forms.	•Class Discussions		
2.0	Skills			
S1	Analyze a complex computing problem to apply principle of computing and other relevant disciplines to identify solutions.	<ul><li>Lectures</li><li>Tutorial</li><li>Lab activities</li></ul>	•Quizzes •Homework •Exams	
S2	Design a computing –based solution to meet a given set of computing requirements in the context of the program's discipline.	<ul> <li>Group Working</li> <li>Handouts</li> <li>Class Discussions</li> </ul>	<ul> <li>Assignments</li> <li>Rubric-based Project Report</li> </ul>	
S3	Apply computer science theory and software development fundamentals to produce computing-based solutions.	•Case study	<ul> <li>Presentation</li> <li>Lab Exam/ Lab reports</li> </ul>	
S4	Identify user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems.			
S5	Communicate effectively in a variety of professional contexts			
3.0	Values			
V1	Recognize the professional, ethical, legal, security and social issues and responsibilities	•Lectures •Tutorials	•Rubric-based Project Report	
V2	Function effectively as a member or leader of a team engaged in activates appropriate to the program's discipline.	<ul><li>Reading Lists</li><li>Group Working</li><li>Self-learning</li></ul>	<ul> <li>Class Graded Discussion</li> <li>Summarizes</li> </ul>	
V3	Identify the local and global impact of computing on individuals, organization, and society.	•Class Discussions	reading • Lab Exam/Lab reports • Graded Class Discussion	

### **Program graduates' characteristics**

- An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
- Analyze a problem, and identify and define the computing requirements appropriate to its solution.
- Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
- Function effectively on teams to accomplish a common goal.
- Adhere to high scientific and societal values and norms.
- Seeks to serve the community.
- Communicate effectively with a range of audiences.

## **Fields of work**

- Programming and software engineering.
- Software developer
- Computer technical support
- Computer Scientist / Researcher
- Computer systems manager
- Computer Scientist / Researcher
- Network Security Manager
- Information Technology Specialist
- Contribute to the development and programming of information systems.
- Management and participation in the design of computer networks.
- Multimedia Developer
- Database Administrator
- Database Analyst
- Database Administrator
- Database developer
- Website design and development.
- Working in teams on smart applications or using data.

### - Admission requirements

- Passing the university preparatory year according to the admission rates determined by the scientific department of the program.
- The details of the admission requirement are available through this <u>link</u>.

# <u>Curriculum study plan</u>

The study in the computer science program is divided into 8 levels according to the following schedule. The students should pass 133 credits.

		C	urriculum Stu	ıdy Plan		
Level	Course Code	Course Name	Required or Elective	* Pre- Requisite Courses	Credit Hours	GE/ Math & Sc. / College / CIS
		Firs	atory Year)			
	ENGL 001	English Language (1)	Required		6	GE
Level 1	EDU 101	University Life Skills	Required		2	GE
Le	CIS 101	Computer skills	Required		3	GE
	MTH	Introductory	Required		3	Math & Sc.
	101	Mathematics <b>Total</b>			14	
	ENGL	English Language (2)	Required	ENGL 001	<b>14</b> 6	GE
	002	English Language (2)	Required	ENGL 001	0	UE
el 2	CHM 103	Principle of Chemistry	Required		3	Math & Sc.
Level 2	CIS 102	Problem Solving and Programming	Required	CIS 101	3	CIS
	MTH 102	Differential Calculus	Required	MTH 101	3	Math & Sc.
		Total			15	
			Second Ye	ar		
	ISL 101	Fundamentals of Islamic Culture	Required		٢	GE
	ARB 100	Arabic Language Skills	Required		2	GE
Level 3	MTH 203	Integral Calculus	Required	MTH 102	٣	Math & Sc.
Γ	CIS 203	Computer programming (1)	Required	CIS 102	4	CIS
	CIS 211	Discrete Mathematics	Required	MTH 102	3	CIS
	PHS 101	General Physics (1)	Required		4	Math & Sc.
	ICI 107	Total	Domine 1		18	CE
	ISL 107 ARB 102	Professional Ethics Writing Skills	Required Required	ARB 101	۲ 2	GE GE
Level 4	CNE 261	Logic Design	Required	MTH 102	4	CIS
Lev	CIS 204	Computer programming (2)	Required	CIS 203	ź	CIS
	CIS 205	Data structures	Required	CIS 203	4	CIS
		16				
		Total			·	
			Third Ye	ar		

ISL100 Studies in the				Requ	ired		٢	GE
	or	Biography of the	;	noqu	incu			
	ISL108	Prophet						
	or	or						
	ISL109	Contemporary Issu	ues					
		or The Role of Wome	n in					
S		Development	11 111					
Level 5	MTH	Principles of Linea	ar	Requ	ired	MTH 203	٣	Math & Sc.
Le	285	Algebra		. 1.				
	CIS 312	Theory of Computat	tion	Requ	ired	CIS 211	٣	CIS
	CIS 331	Programming		Requ	ired	CIS 205	3	CIS
		Languages and						
	CIS 321	compilation Software Engineeri	ng	Requ	ired	CIS 204	3	CIS
	CIS 343		-	<b>^</b>		CNE 261	3	
	CIS 343	Computer Organizat Tota		Requ	ineu	CIVE 201	<u> </u>	CIS
	ISL100	Studies in the		Requ	ired		۲	GE
	or	Biography of the		noqu				
	ISL108	Prophet						
	or	or						
	ISL109	Contemporary Issu	ues					
		or The Role of Wome	n in					
el 6		Development						
Level 6	MTH	Probabilities and		Requ	ired	MTH 203	3	Math & Sc.
Ι	281	Statistics						<b>610</b>
	CIS 322	Concepts of Databa Systems	ase	Requ	ured	CIS 205	4	CIS
	CIS 313	Artificial Intelligence		Requ	ired	CIS 205	3	CIS
	CIS 323	Software Project		Required		CIS 321	3	CIS
		Management						
	CIS 342	Operating system Tota		Requ	ured	CIS 205	۳ 18	CIS
			11				10	
Cl	IS 391	Field Training	Req	equired Complete 90 hours			1	CIS
					from	the program		
		Tota	ıl				1	
							I	l
				Fo	urth Ye	ar		
	CIS 432	Parallel Computing	Req	uired		CIS 343	3	CIS
	CNE	Computer	Req	uired		CIS 342	٣	CIS
	463	Networks						
	CIS 414	Design and	Req	uired		CIS 205	3	CIS
Ъ		analysis of Algorithms						
Level 7	CIS 492	Graduate Project	Req	uired	Com	olete 90 credit	2	CIS
Le		(1)			-	hours		
	CIS 424	Mobile	Req	uired		CIS 322	3	CIS
		applications and				CIS 204		
	CIS	development Elective (1)	Ele	ctive			3	CIS
	XXX							
		Tota	ıl				١7	

	CIS 441	Introduction to Computer & Network Security	Required	CNE 463	3	CIS
	CIS 493	Graduate Project (2)	Required	CIS 492	٣	CIS
Level 8	CIS XXX	Elective (2)	Elective		3	CIS
Γ	CIS XXX	Elective (3)	Elective		3	CIS
	CIS XXX	Elective (4)	Elective		٣	CIS
	EDU	University Elective	Elective		2	GE
	XXX	topic				
					١7	

Credit	Requirements	Hours
<b>General University Education</b> <b>Requirements</b> (GE)	Required Courses	<b>Y9</b>
	Elective Courses	2
<b>Department Requirements</b> ( Math & Sc. + CIS)	Math & Science Required Courses	22
	CIS Required Courses Compulsory Courses	68
	<b>CIS Elective Courses</b> Student can choose 4 courses from any combination of areas	12
	Total hours	133

#### **University Required Courses (29 Hours)**

			Christy Required	0001000	````	ours		
SN	Course Code	Course Number	Course Name	Theore tical	Practic al	Traini ng/Exe rcises	Accredit ed	Prior requirements
1.	ENGL	001	English Language (1)	5	5	10	6	
2.	EDU	101	University Life Skills	2	0	0	2	
3.	CIS	101	Computer skills	2	0	0	3	
4.	ENGL	002	English Language (2)	5	5	10	6	ENGL 001
5.	ISL	101	Fundamentals of Islamic Culture	2	0	0	2	
6.	ARB	100	Arabic Language Skills	2	0	0	2	
7.	ISL	107	Professional Ethics	2	0	0	2	
8.	ARB	102	Writing Skills	2	0	0	2	ARB 101
9.		The s	tudent select two course	s from Tl	nose Thre	e Islamic	courses	
10.	ISL	100	Studies in the Biography of the Prophet	2	0	0	۲	
11.	ISL	108	Contemporary Issues	2	0	0	۲	
12.	ISL	109	The Role of Women in Development	2	0	0	۲	

#### University Elective Courses (select 2 Hours)

					Ho			
SN	Course Code	Course Number	Course Name	Theore tical	Practic al	Traini ng/Exe rcises	Accre dited	Prior requirements
1.	EDU	102	Volunteer Work	2	0	1	2	
2.	BUS	101	Entrepreneurship	2	0	1	2	

#### **Department Required Courses - (90) Hours**

	Cours							
SN	e Code	Course Number	Course Name	Theoretic al	Practical	Training / Exercises	Accredite d	Prior requirement s
1.	CHM	103	Principle of Chemistry	2	*	۲	3	

2.	MTH	101	Introductory Mathematics	2	•	۲	٣	
3.	MTH	102	Differential	2	0	2	3	MTH 101
4.	MTH	203	Calculus Integral Calculus	2	0	2	3	MTH 102
5.	MTH	283	Statistics and	2	0	2	3	MTH 203
5.			Probabilities	Z	0	2	3	MTH 205
6.	PHS	101	General Physics (1)	3	2	0	4	
7.	MTH	285	Principles of Linear Algebra	2	0	2	3	MTH 2۰۳
8.	CIS	211	Discrete Mathematics	3	0	1	3	MTH 102
9.	CIS	102	Problem Solving and Programming	2	2	0	3	CIS 101
10.	CIS	203	Computer Programming (1)	3	2	0	4	CIS102
11.	CIS	204	Computer Programming (2)	3	2	0	4	CIS 203
12.	CIS	205	Data Structures	3	2	0	4	CIS 203
13.	CIS	342	Operating Systems	3	0	1	٣	CIS 205
14.	CIS	322	Concepts of Database Systems	٣	۲	•	4	CIS 205
15.	CIS	323	Software Project Management	3	0	1	3	CIS 322
16.	CNE	261	Logic Design	٣	2	0	4	MTH 102
17.	CIS	312	Theory of computation	3	0	1	٣	CIS 211
18.	CIS	371	Software Engineering	3	0	0	3	CIS 204
19.	CIS	331	Programming Languages and Compilation	3	0	1	٣	CIS 20°
20.	CIS	343	Computer Organization	3	0	0	٣	CNE 261
21.	CIS	313	Artificial Intelligence	3	0	0	3	CIS 205
22.	CIS	432	Parallel Computing	3	0	0	3	CIS 343
23.	CIS	391	Field Training	1	0	0	1	Complete 90 credit hours
24.	CNE	463	Computer Networks	3	0	1	3	CIS 342
25.	CIS	424	Mobile Applications and Development	2	۲	•	3	CIS 322 CIS 204
26.	CIS	414	Design and Analysis of Algorithms	3	0	1	3	CIS 205
27.	CIS	49۲	Graduate Project (1)	2	0	0	2	Complete 90 credit hours
28.	CIS	441	Introduction to Computer & Network	2	2	0	3	CNE 463

			Security					
29.	CIS	49۳	Graduate Project (2)	3	0	0	3	CIS 49 <sup>7</sup>

<b>Department Elective</b>	Courses (	select 12)	Hours
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				Hours				
SN	Course Code	Course Number	Course Name	Theore tical	Practic al	Traini ng/Exe rcises	Accre dited	Prior requirements
1.	CIS	428	Programming on the Web	2	2	0	3	CIS 322 CIS 204
2.	CIS	425	Database Management System	3	0	1	3	CIS 322
3.	CIS	426	Advanced Software Engineering	3	0	0	3	CIS 321
4.	CIS	427	Web engineering and Development	2	2	0	٣	CIS 424
5.	CIS	461	Computer Graphics	٣	0	1	٣	CIS 414
6.	CNE	484	Digital Image Processing	٣	0	0	٣	CIS 205
7.	CNE	471	Computer Vision	٣	0	1	3	CIS 414
8.	CIS	464	Machine Learning	3	0	0	٣	CIS 313
9.	CIS	465	Expert System	3	0	0	٣	Complete 90 credit hours
10.	CIS	466	Human Computer Interaction	3	0	1	٣	Complete 90 credit hours
11.	CIS	494	Selected Topics I	3	0	0	3	Complete 90 credit hours
12.	CIS	495	Selected Topics II	3	0	0	3	Complete 90 credit hours
13.	CIS	433	Distributed Systems	3	0	0	3	CIS 432
14.	CNE	478	Intelligent Systems & Robotics	2	2	0	3	Complete 90 credit hours
15.	CIS	434	Cloud Computing	2	2	0	3	Complete 90 credit hours
16.	CNE	474	Pattern Recognition	2	2	0	3	Complete 90 credit hours
17.	CIS	463	Bioinformatics	2	2	0	3	Complete 90 credit hours
18.	CIS	462	Natural Language Processing	3	0	0	3	Complete 90 credit hours
19.	CIS	442	Applied Cryptography	2	2	0	3	Complete 90 credit hours
20.	IS	427	Fundamentals of Big Data	3	0	0	3	Complete 90 credit hours

### **Program advisory committee**

The program advisory committee is constructed as follows:

- Dr. Ibrahim Alrashdi (department chair)
- Dr. Youssef Al-Hwaiti (assistant professor)
- Dr. Asyaa BenAliaa (assistant professor girls Section.)
- Dr. Abdoallah Alamery (assistant professor Baha university)
- Mr. Eid Almubarak ( IT manger in education sector in Jouf)
- Mra. Asmaa Yahia (IT manger united Ahli Bank)
- Mr. Ahmed Mohialdin (IT manger in secure networks institution)

The committee have periodic meetings with the following responsibilities:

- Contribute to developing future plans to meet current and future challenges.
- Improving research, development and consulting methods
- Provide advice, guidance and advice regarding the development of the academic program.

# **Program regulations**

The graduate studies' unified regulations of Saudi universities and its executive rules will be applied at Jouf University with regard to admission requirements, graduation rules, obtaining a degree, as well as the additional criteria for the program. For more details you can visit the following links:

751 1 11 1	
The skill record	https://bit.ly/38FTQQk
Student Council rules	https://bit.ly/3oIPiOr
Student discipline rules	https://bit.ly/3oJi4yx
Students' rights and duties	https://bit.ly/2LKmV3W
Campus regulations	<u>https://bit.ly/2LPwQoJ</u>

Student club rules	https://bit.ly/35ET7wR
Students' complaints regulations	https://bit.ly/3nH1Zs3
Study rules and exams	https://bit.ly/39t7pSi

### **Student Administration and Support**

#### Student academic counseling

Each student is assigned to an academic advisor who will act as a mentor, providing academic and career advice, and general counseling. Each student is required to meet his advisor at least once a week, during the eighth semester. The Academic advising center of the university provide support to the students in the form of hosting extracurricular activities, field trips, and seminars by inviting guest speakers and providing an interactive learning environment. The Head of the Department is also available to meet the students and listen to their academic problems and concerns. The general advising duties can be stated as follows:

- The academic advisor is expected to deal with students' academic, career, and personal problems.
- The academic advisor helps his/her advisee students select the appropriate courses in order to fulfil the
- graduation requirements.
- The academic advisor helps the student explore the career fields within his/her major, and obtain
- related career information and survey job opportunities.
- The academic advisor serves as a link between the student and the administration by counseling the
- student on matters of failure, on the procedures for dropping and adding courses, course scheduling, and academic progress.
- The academic advisor must alert students of any subsequent changes in the curriculum that might be enforced during the course of their studies.

#### Learning resources, facilities and equipment

Courses instructors are requested to select textbooks that are commonly used by top universities in the world. Also, they are required to specify other teaching materials they need. The course coordinators submit all the department requests in appropriate form to library administration through departmental head. Course files are prepared for all courses where textbooks and helping materials are included. The faculty offer various facilities for leering such as:

- Fully equipped laboratories for teaching all subjects.
- A large number of scientific references were provided in coordination with the Central Library.
- The college has 17 classrooms of different sizes. Equipped with projectors and some of them are equipped with a smart board.
- Three video conference rooms
- Meeting rooms and offices for college committees and units.
- Blackboard: It is an electronic system for communication between teachers and their students.

#### **Classrooms, laboratories and equipment**

The department responsible for the program currently contains four computer laboratories, each of which has twenty computers with programs installed to be used to teach all the courses of the program. The department also benefits from the laboratories of other departments and colleges. As laboratories of the Computer Engineering Department, which are equipped with computer devices installed with programs used to teach programming courses and simulation programs used in teaching some courses such as data communication, networks and digital control. The department also currently contains logic design laboratories, electronics and electrical circuits that contribute effectively to the quality of the educational process.







#### **E-learning**

Students of the program can benefit from Blackboard as an educational system to provide educational or training programs to students or trainees at anytime and anywhere, as well as by using interactive information and communication technology such as (Internet, TV channels, e-mail, computers, and teleconferences ...) in a synchronous or asynchronous manner.

E-learning can be considered a method of education that depends in providing educational content and conveying skills and concepts to the learner on information and communication technologies and their multiple media in a way that allows the student to actively interact with the content, the teacher and colleagues simultaneously or asynchronously in time, place and speed that suit the circumstances of the learner and his ability, and the management of all activities The educational scientific and its requirements in electronic form through the electronic systems designated for that purpose.

## **Faculty Members:**

### **Boys section**

NO.	Name	Academic degree
1.	Dr. Ibrahim Alrashdi	Assistant professor (program chair)
2.	Dr. Saad Alanizi	Associative professor
3.	Dr. Youssef Al-Hwaiti	Assistant professor
4.	Dr. Shadi Ismail Nashwan	Professor
5.	Dr. Muhammad Al-Hafiz	Associative professor
6.	Dr. Osama Ouda	Associative professor
7.	Dr. Mohamed Ezzedine	Associative professor
8.	Dr. Muhammad Qamar Al-Zaman	Associative professor
9.	Dr. Musharraf Al-Ruwaili	Assistant professor
10.	Dr. Abdel Halim Samaei	Assistant professor
11.	Dr. Muhammad Hamid Sadiq	Assistant professor
12.	Dr. Ahmed Al Sayyat	Assistant professor
13.	Dr. Hadi Hamdy	Assistant professor
14.	Dr. Muhammad Mohi Azad	Assistant professor
15.	Dr. Nasser Al-Shammari	Assistant professor
16.	Dr. Eslam Hamouda	Assistant professor
17.	Dr. Alaa Saleh Al-Arjan	Assistant professor
18.	Dr. Muhammad Abdul Hamid Al-Nusairi	Assistant professor
19.	Dr. Akram Ajouli	Assistant professor
20.	Dr. Amjad Al–Sirhani	Assistant professor
21.	Dr. Medhat Abdel Hadi	Assistant professor

22.	Mr.Abdel Moneim Al-Zabali	Lecturer
23.	Mr. Abdulaziz Al-Sharari	Lecturer
24.	Mr. Ayman Al-Majnouni	Lecturer
25.	Mr. Badr Al-Enezi	Lecturer
26.	Mr. Aish Al-Biladi	Lecturer
27.	Mr. Abbas Al-Shuraimi	Lecturer
28.	Mr. Abdul Rahman Al-Yami	Lecturer
29.	Mr. Issa Al-Kuwaikibi	Lecturer
30.	Mr. Fadi Abed Al-Harbi	Lecturer
31.	Mr. Faris Al-Ruwaili	Lecturer
32.	Mr. Fawaz Al-Ruwaili	Lecturer
33.	Mr. Walid Al-Hamoud	Lecturer
34.	Mr. Muhannad Al-Khalidi	Lecturer
35.	Mr. Abdul Rahman Al-Harbi	Lecturer
36.	Mr. Sultan Al-Falah	Demonstrator
37.	Mr. Ayed Al-Shammari	Demonstrator
38.	Mr. Hilal Al-Shammari	Lecturer
39.	Mr. Mokhaled Al-Harbi	Lecturer
40.	Mr. Abdullah Khalif Al-Kuwaikibi	Lecturer

#### **Girls section**

No.	Name	Academic degree
1)	Dr. Asia Benalieh	Assistant professor
2)	Dr. Salwa Hindawi	Assistant professor
3)	Dr. Randa Jaber	Assistant professor
4)	Dr. Mayada Tarek	Assistant professor
5)	Dr. Orida Banu Bakr	Assistant professor
6)	Dr. Ghada Al-Waked	Assistant professor
7)	Dr. Fatima Al-Qaeed	Assistant professor
8)	Dr. Menwa Alshammeri	Assistant professor
9)	Mrs. Kholoud Al-Shadoukhi	Lecturer
10)	Mrs. Noura Al-Ghuwairi	Demonstrator
11)	Mrs. Aisha Al-Waked	Lecturer
12)	Mrs. Ashwaq Aljuhaysh	Lecturer
13)	Mrs. Wissam Al-Ruwaili	Lecturer
14)	Mrs.Rafeef Al-Shammari	Lecturer
15)	Mrs. Thana Al-Nusairi	Lecturer
16)	Mrs. Mona Al-Zahrani	Lecturer
17)	Mrs. Amjad Al-Enezi	Demonstrator
18)	Mrs. Fatima Al-Ruwaili	Lecturer
19)	Mrs. Mashael Alsuwailem	Lecturer
20)	Mrs. Azzah Allahem	Lecturer
21)	Mrs. Amirah Al-Shammari	Lecturer

22)	Mrs. Deemah Almofarreh	Lecturer
23)	Mrs. Marwah Alsadun	Lecturer
24)	Mrs. Aala Alsalem	Lecturer
25)	Mrs. Amjad alowageel	Lecturer
26)	Mrs. Yasmeen Alomair	Lecturer
27)	Mrs. Maha AL-Frhood	Lecturer
28)	Mrs. Amal Almrshed	Lecturer
29)	Mrs. Meshail Alkhamsan	Lecturer
30)	Mrs. Malak Al-amri	Lecturer