Program Catalogue | 2023-2024 | دليل البرنامج الدراسي

جامعة الانبار

First Cycle – Bachelor's degree of (B.Sc.) – Information System

بكالوريوس نظم المعلومات

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1. Mission & Vision Statement

Vision Statement

The Information Systems Department was established in 1999 to prepare qualified cadres in the field of building systems and information bases to supply state departments with expert cadres in order to develop the software industry in the country and to keep abreast of the tremendous developments in this field and to deal with modern technologies and information network. The main interest of the department is focused on the software industry in the country and keeping pace with The tremendous developments in this field and dealing with modern technologies and the information network, and the main concern of the department is to study all technical issues, issues of senior management, planning policies and decision-making associated with the employment of computers in the establishment of information systems for major institutions, and the department deals with the theoretical and practical aspects related to the description, analysis, design, implementation and management of systems Information while maximizing the utilization of the information and communication technology infrastructure.

Mission Statement

The Information System Department academic staff pursues a multifaceted charge at University of Anbar. The Program seeks to provide all Information System Department students with fundamental knowledge of Information System, as well as a deeper understanding of a selected focus area within the Computer sciences. The curriculum and advising have been designed to prepare graduates for their professional future, whether they choose to work as Information System specializing in botany or wildlife, or to pursue advanced degrees in the Information Technology. The Information System program also provides the necessary fundamental knowledge of the Computer sciences to support the

Computer Science degree, the Network Technology degree, and the Artificial intelligence degree in Forest Technology. In addition, Information System courses provide a key laboratory science experience for those students seeking to complete the general education requirements

2. Program Specification

Programme code:	BSc-IT	**ECTS**	240	
Duration:	4 levels, 8 Semesters	**Method of Attendance:**	Full Time	

Information System is a wonderfully wide-ranging subject and is well equipped to deliver. The emphasis of the program is the whole organism to which everything is related, be it the molecules that form proteins or communities of organisms in an ecosystem. The degree is popular - –or some it's' the breadth of the subject that appeals, for others it's a path to specialization. All students have the opportunity to transfer onto our specialist degrees in Information System at the end of the first year.

Level 1 exposes students to the fundamentals of Information System, suitable for progression to all programs within the Information System program group. Program-specific core topics are covered at Level 2 preparing for research-led subject specialist modules at Levels 3 and 4. The University Information System graduate is therefore trained to appreciate how research informs teaching, according to the University and School Mission statements.

At Levels 2, 3 and 4 students are able to study a range of modules which are selected, that reflect the complexity of life forms from Data Structure , information security, Networks , to free to choose more than half of their module credits with the proviso Artificial Intelligence to ensure the breadth of knowledge expected of a graduate with Information System degree. This allows students to develop their own wide-ranging interests in Information System and Data Science. Decisions on what to study are made with input from personal tutors.

The research ethos is developed and fostered from the start via practical's, which are either embedded in lecture modules or taught in dedicated practical modules, research seminars and tutorials. There is a compulsory field course in Level 1, which students must pass in order to progress into Level 2, and optional field courses in Levels 2, 3 and 4. At Level 4 all students carry out an independent research project, which may be a 8 credit library or data analysis project, or a 8 credit field or laboratory based project.

Academic tutorials are held at Levels 1 and 2 with the same tutor, who is also the personal tutor, providing continuity and progressive guidance. Level 1 and 2 tutorials include a number of workshops to teach skills, e.g. library use and presentation skills, followed by assessed exercises, e.g. essays and talks, as opportunities to practice these skills in a subject-specific context.

International years and Industrial placements are also offered and individual needs are discussed with the appropriate tutor and accommodated wherever possible.

3. Program Objectives

1. The department aims to prepare qualified cadres in the field of building systems and databases to provide state departments and institutions with expert cadres, in a way that develops the software industry in Iraq, keeping abreast of the tremendous developments in this field, and dealing with modern technologies and the information network. To be able to study the problems and challenges in the field of information systems science and technology.
2. Prepare the student systematically
3. Enable the systems analyst to lead a software team to prepare a computer system that solves the problems of users and beneficiaries.
4. Developing the students' mental abilities through analysis and logical deduction, and enabling them to solve programming problems
5. The necessary development of school curricula to ensure the integration of recent changes in computer science technology and e-learning applications.
6. Encouraging innovative ideas and projects and developing leadership and creative skills in the field of information technology by urging students to participate in computer events and forums.

4. Student Learning Outcomes

Information System is the study of the organization and operation of life at business and organizations levels. Graduates obtain information on how to collect, retrieve, process, store and disseminate information for the purpose of facilitating planning , control , analysis ,coordination and decision making in business and other organizations. The Department offers a Bachelor of Science in Information system. Additionally, the Department offers courses to a large number of students from other departments and supports pre-professional programs. The Information System curriculum and experiences are designed to prepare students, in part, for entry into professional Technology programs, graduate studies, technical careers and education

Outcome 1

Identification of Complex Relationships

Graduates will be able to illustrate the structure and function of information systems components and explain how they interact in a living cell.

Outcome 2

Oral and Written Communication

Graduates will be able to formally communicate the results of technology investigations using both oral and written communication skills.

Outcome 3

Laboratory and Field Studies

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.

Outcome 4

Scientific Knowledge

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.

Outcome 5

Data Analyses

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.

Outcome 6

Critical Thinking

Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

5. Academic Staff

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6. Credits, Grading and GPA

Credits

University of Anbar is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	التقدير	**Marks (%)**	**Definition**
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

   CGPA of a 4-year B.Sc. degree:

   CGPA = [(1st module score x ECTS) + (2nd module score x ECTS) + ……] / 240

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CSIT107	Structured programming	80	120	8.00	B	
CSIT110	Fundamental of Information Technology	65	85	6.00	B	
CSIT109	Logic Design I	95	55	6.00	B	
ISDC115	Mathematic I	50	100	6.00	C	
UOA140	English (1)	35	65	4.00	B	
		325	425	30.00		

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CSIT108	Structured programming II	80	120	8.00	B	CSIT107
CSIT112	Discrete Structures	50	100	6.00	B	
CSIT111	Logic Design II	65	85	6.00	B	CSIT109
ISDC116	Mathematic II	50	100	6.00	C	ISDC115
UOA137	Arabic Language	35	65	4.00	B	`
		280	470	30.00		

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ISDC207	Object Oriented Programming I	80	120	8.00	B	CSIT108
CSIT201	Data Structures and Algorithms	65	85	6.00	B	
ISDE215	Computational Theory	35	65	4.00	B	
ISDC198	Introduction to Electronic information system	35	90	5.00	E	
ISDC202	Design and Analysis of Information Systems	35	90	5.00	E	
UOA135	Democracy and Human Rights	25	25	2.00	B	
ISDC203	Advanced Mathematics	55	70	5.00	B	ISDC116
		295	455	30.00		

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ISDE211	Object Oriented Programming II	80	120	8.00	B	ISDC207
ISDC205	Design and Analysis of Databases	65	85	6.00	B	
ISDE190	Web Technologies	65	85	6.00	E	
ISDE219	Design Internet Pages	65	85	6.00	E	
ISDC303	Numerical Analysis	65	85	6.00	C	
UOA240	English (2)	35	65	4.00	B	
UOA140	AlBaath Party Crimes	15	15	2.00	B	
		310	440	30.00		

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ISDC308	Visual Programming I	80	120	8	B	
ISDC305	Principles Of Computer Network	65	85	6	B	
ISDC306	Distributed Database Management systems	65	85	6	B	ISDC205
ISDE389	Natural Lagnauge Processing	65	85	6	E	ISDE215
ISDE324	Compiler	65	85	6	E	
ISDC307	Project Management Systems	35	65	4	B	
ISDE325	Artificial Intelligent I	310	440	30		

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ISDE323	Visual Programming II	80	120	8	B	ISDC308
ISDE325	Artificial Intelligent II	65	110	7	B	ISDC305
ISDC323	Data Storage Engineering	35	90	5	E	
ISDC309	Software Engineering				E	
ISDC327	Data Management Systems	35	90	5	C	
ISDC328	Decision Support Systems	35	90	5	B	
		250	500	30		

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ISDE323	Information Security I	35	90	5	B	
ISDE322	Internet of Things	65	85	6	E	
ISDE324	Cloud Computing				E	
ISDE325	Machine learning	65	85	6	B	
ISDC375	Operating Systems I	35	90	5	C	
ISDC327	Web Application Programming	65	85	6	B	ISDE219
CSDE423	Research Methodology	35	15	2	B	
		300	450	30		

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ISDC406	Cyber-Security Principles	35	100	4	B	ISDE323
ISDC405	Deep Learning	65	85	5	B	ISDE325
ISDE333	Information Technology Governance	35	65	4	E	
ISDE414	E- Commerce				E	
ISDC309	Data Warehouse and Data Minining	35	65	4	B	
ISDC422	Operating Systems II	65	85	5	C	
ISDC407	Project	95	105	8	B	
		330	505	30		

8. Contact

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