



جامعة اليرموك  
Yarmouk University  
كلية تكنولوجيا المعلومات وعلوم الحاسوب  
Information Technology and Computer  
Sciences



Document Code	Study Plan	Document Approval Date
AP02-PR04		

Department: Information Technology	Program: Business Information Technology	Official Stamp
The study plan was approved by the decision of the Deans' Council no. .... on .....		

Overview
<p>The Bachelor of Business Information Technology (BIT) is a modern program that combines information technology and a business environment. Designed to focus on the periphery space, this program responds to market needs, enhancing student employment opportunities.</p> <p>A Bachelor's degree in Business Information Technology helps you bridge the gap between business needs and technology capabilities in any industry. Students learn to use current technology in communications, databases, data analytics, and programming. In addition, students are taught not only to understand and analyze problems related to information technology, but also to suggest solutions and solve problems and decisions and correct them through the application of computing principles and related technologies.</p> <p>In essence, this program provides an effective environment suitable for the production of skilled graduates with a sound understanding of the relevant disciplines of network technologies, communication principles, software engineering, security and legal issues, programming, systems analysis, design, databases, web technology, and data analysis and mining. In other words, the program will provide you with the skills to evaluate and implement technology-based solutions to business problems. You will learn to evaluate the benefits that a particular technology brings to a particular organization, and you will understand how the technologies can be used in existing systems. We focus on developing critical thinking, communication and collaboration skills among students. The demand is high and rapidly growing for professionals who have the ability to add strategic value by aligning business with technology.</p>

Vision and Mission	
Vision	To Keep pace with the development of the business sector and responding to the challenges and meeting the requirements of this sector related to information and communication technology.
Mission	To supply the labor market with graduates equipped with the knowledge and skills needed to design, develop and use various business information technologies for developing Enterprise systems and the capacity for creativity and innovation.



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Program Objective	
1	Implement computing solutions for real world problems and carry out basic and applied research leading to new innovations in Business Information Technology (BIT) and related interdisciplinary areas.
2	Apply knowledge of societal impacts of information technologies in the course of their career related activities ethically and appropriately.
3	Have strong communication and interpersonal skills, broad knowledge, and an understanding of multicultural and global perspectives to work effectively and ethically in multidisciplinary teams, both as team members and leaders.
4	Engage in life-long learning, to remain current in their profession and obtain additional qualifications to enhance their career positions in IT industries.

Program Learning Outcomes PLOs	
PLO1	Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
PLO2	Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of Business Information Technology discipline.
PLO3	Communicate effectively in a variety of professional contexts.
PLO4	Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
PLO5	Function effectively as a member or leader of a team engaged in activities appropriate to the Business Information Technology discipline.
PLO6	Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals.



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**Credit hours to obtain a degree in Information Technology and Computer Sciences in a specialization of Business Information Technology**

	Credit Hours		
	Compulsory	Elective	Total
University Requirements	15	12	27
Faculty Requirements	22	0	22
Department Requirements	67	18	85
<b>Total</b>	<b>104</b>	<b>30</b>	<b>134</b>

**First: University Compulsory Courses (15) Credit Hours**

Course Code	Course No.	Course Name	Number of Credit Hours			Pre-requisite
			Theoretical	Practical	Total	
HUM	117	Pioneering and Creativity	1	0	1	
HUM	118	Leadership and Society	1	0	1	
HUM	119	Life Skills	1	0	1	
HUM	120	Communication Skills (English Language)	3	0	3	
HUM	121	Communication Skills (Arabic Language)	3	0	3	
PS	102	National Education	3	0	3	
MILT	100A	Military Sciences	3	0	3	
EL	099	English Language Skills - Remedial	Remedial	0	0	
AL	099	Arabic Language - Remedial	Remedial	0	0	
COMP	099	Computer Skills - Remedial	Remedial	0	0	

**Second: University Elective Courses (12) Credit Hours**



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Course Code	Course No.	Course Name	Number of Credit Hours			Pre-requisite
			Theoretical	Practical	Total	
HUM	101	Basic of Mass Communication	3	0	3	
HUM	102	Citizenship and Allegiance	3	0	3	
HUM	103	Islamic: Intellect & Civilization	3	0	3	
HUM	104	Arts and Behaviours	3	0	3	
HUM	105	Jordan Contribution to Human Civilization	3	0	3	
HUM	106	Introduction to Human Cultural Studies	3	0	3	
HUM	107	Human Rights	3	0	3	
HUM	108	Thinking Skills	3	0	3	
HUM	109	Islamic Systems	3	0	3	
HUM	110	The Culture of Tourism and Hospitality	3	0	3	
HUM	111	History of Jerusalem	3	0	3	
HUM	112	Geography of Jordan	3	0	3	
HUM	113	Islamic Educational Thinking	3	0	3	
HUM	114	Good Governance and Integrity	3	0	3	
HUM	115	Legal Education	3	0	3	
HUM	116	Ancient Writings of Jordan	3	0	3	
HUM	122	Economy and Society	3	0	3	
HUM	123	Performing Arts	3	0	3	
SCI	101	Environment & Public Health	3	0	3	
SCI	102	Information	3	0	3	



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		Technology and Society				
SCI	103	Physical Education for All	3	0	3	
SCI	104	Effective Communication Skills	3	0	3	
SCI	105	Renewable Energy	3	0	3	
SCI	106	Management and Society Development	3	0	3	
SCI	107	Scientific Research	3	0	3	
SCI	109	Digital Culture	3	0	3	
SCI	110	Development and Environment	3	0	3	
SCI	111	Principle of Epidemiology and Community Immunity	3	0	3	

Third: Faculty Compulsory Courses (22) Credit Hours						
Course Code	Course No.	Course Name	Number of Credit Hours			Pre-requisite
			Theoretical	Practical	Total	
CS	111	Programming in a Selected Language	3	0	3	-
CS	111L	Programming in a Selected Language Lab	0	3	1	CS 111
MATH	101	Calculus 1	3	0	3	-
CIS	101	Introduction to Information Systems	3	0	3	-
CIS	260	Database Systems	3	0	3	CS 210 and CIS 101
STAT	111	Introduction to Probability (1)	3	0	3	-



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BIT	221	Legal Issues in Information Technology	3	0	3	CYS 230
BIT	381	Web Application Development (1)	3	0	3	CIS 260

**Fourth: Department Compulsory Courses (67) Credit Hours**

Course Code	Course No.	Course Name	Number of Credit Hours			Pre-requisite
			Theoretical	Practical	Total	
BIT	222	Entrepreneurship in IT	3	0	3	CIS 101 and BA 101
BIT	241	Operations Research	3	0	3	CS 142
BIT	250	E-Commerce	3	0	3	BIT 221
BIT	332	Resources Management	3	0	3	BIT 222
BIT	364	Systems and Project Management	3	0	3	CIS 260
BIT	370	Enterprise Resource Planning	3	0	3	BIT 332
BIT	382	Knowledge Management	3	0	3	BIT 250 and BIT 222
BIT	386	Web Technology	3	0	3	BIT 381
BIT	480	Decision Support Systems	3	0	3	BIT 241
BIT	480L	Decision Support Systems Lab	0	3	1	Synchronous with BIT 480
BIT	481	Web Application Development (2)	3	0	3	BIT 381
BIT	483	Business Intelligence	3	0	3	CIS 260
BIT	499	Graduation Project	3	0	3	Successfully completed 98 hours
CYS	230	Cyber Security Principles	3	0	3	CS 111



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<b>CS</b>	<b>142</b>	Discrete Structures	3	0	3	<b>MATH 101</b>
<b>CS</b>	<b>210</b>	Object Oriented Programming	3	0	3	<b>CS 111</b>
<b>CS</b>	<b>250</b>	Data Structure	3	0	3	<b>CS 210</b>
<b>CS</b>	<b>332</b>	Data Communication and Networks	3	0	3	<b>CYS 230</b>
<b>CS</b>	<b>214</b>	Visual Programming	3	0	3	<b>CIS 101 and CS 210</b>
<b>CIS</b>	<b>342</b>	Systems Analysis and Design	3	0	3	<b>CIS 260 and CIS 240</b>
<b>CIS</b>	<b>240</b>	Introduction to Software Engineering	3	0	3	<b>CIS 101 and CS 210</b>
<b>CIS</b>	<b>265</b>	Database Management Systems	3	0	3	<b>CIS 260</b>
<b>BA</b>	<b>101</b>	Management Principles	3	0	3	

**Fifth: Department Elective Courses (9) Credit Hours**

Course Code	Course No.	Course Name	Number of Credit Hours			Pre-requisite
			Theoretical	Practical	Total	
<b>BIT</b>	<b>270</b>	Digital Marketing	3	0	3	<b>BIT 250</b>
<b>BIT</b>	<b>385</b>	Data Visualization	3	0	3	<b>CIS 260</b>
<b>BIT</b>	<b>461</b>	Quality Management and Control	3	0	3	<b>BIT 382</b>
<b>BIT</b>	<b>485</b>	Business Mobile Applications	3	0	3	<b>BIT 481</b>
<b>BIT</b>	<b>492</b>	Special Topics in BIT	3	0	3	<b>BIT 483</b>
<b>BIT</b>	<b>497</b>	Training Certificate (*)	3	0	3	
<b>BIT</b>	<b>498</b>	Internship/Practical Training	3	0	3	Successful completion of 90 hours and approval of the department



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(\*) Equivalent to an accredited international certificate in one of the fields of specialization approved by the department according to special foundations

Sixth: Department Elective Courses (3) Credit Hours – faculty of IT						
Course Code	Course No.	Course Name	Number of Credit Hours			Pre-requisite
			Theoretical	Practical	Total	
CS	281	Mmultimedia Systems	3	0	3	CIS 101 and CS 210
CS	351	Algorithm's Analysis and Design	3	0	3	CS 142 and CS 250
CIS	367	Data Warehousing	3	0	3	CIS 260
CIS	382	Cloud Computing	3	0	3	CS 332 and CIS 260
CIS	467A	Data Mining	3	0	3	CIS 260

Seventh: Department Elective Courses (3) Credit Hours – Faculty of Science						
Course Code	Course No.	Course Name	Number of Credit Hours			Pre-requisite
			Theoretical	Practical	Total	
STAT	101	Introduction to Statistics	3	0	3	--
MATH	241	Linear Algebra	3	0	3	MATH 101
MATH	322	Numerical Analysis (1) (for IT students)	3	0	3	CS 142

Mapping of Program Learning Outcomes							
No.	Course Code and number	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6
1	BIT 221	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	BIT 381	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	BIT 222	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>





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4	BIT 241	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	BIT 250	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	BIT 332	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	BIT 364	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	BIT 370	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	BIT 382	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	BIT 386	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	BIT 480	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	BIT 480L	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	BIT 481	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	BIT 483	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	BIT 498	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
16	BIT 499	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
17	BIT 270	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	BIT 385	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	BIT 461	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	BIT 492	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	BIT 497	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22	BIT 498	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>