Ahlia University
COLLEGE OF INFORMATION TECHNOLOGY
BACHELOR'S DEGREE IN INFORMATION TECHNOLOGY
BSIT 18-19

BSIT 18-19 - FIRST YEAR (32 CREDITS)

First Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ARAB	101	Composition for Native Speakers of Arabic I	3	0	3	
ENGL	101	Academic English I	3	0	3	ENGL 052 AND ENGL 055 or passing placement test
ITCS	101	Introduction to Computers & IT	2	2	3	
MATH	101	Calculus I	3	0	3	MATH 053 or passing placement test
HUMR	101	Principles of Human Rights	2	0	2	
PHYS	111	General Physics	3	0	3	MATH 053 or passing placement test
					17	

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ENGL	102	Academic English II	3	0	3	ENGL 101
HIST	121	Modern History of Bahrain	3	0	3	
ITCS	122	Introduction to Programming Techniques	2	2	3	ITCS 101
MATH	102	Calculus II	3	0	3	MATH 101
STAT	101	Introduction to Statistics	3	0	3	MATH 053 or passing placement test
					15	

BSIT 18-19 - SECOND YEAR (33 CREDITS)

First Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ENGL	201	Academic English III	3	0	3	ENGL 102
MATH	202	Calculus III	3	0	3	MATH 102
ITCS	201	Object-Oriented Programming I	2	2	3	ITCS 122
XXXX	XXX	Free Elective I	X	X	3	
ITCS	209	Discrete Structures	3	0	3	MATH 102
ITMS	205	Internet Applications and Services	2	2	3	ITCS 101
					18	

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ENGL	202	Academic English IV	3	0	3	ENGL 201
ITCS	221	Object-Oriented Programming II	2	2	3	ITCS 201
ITCS	214	Computer Systems	3	0	3	ITCS 101
ITCS	222	Visual Programming	2	2	3	ITCS 122
ITCS	224	Data Structures	2	2	3	ITCS 201
					15	

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BSIT 18-19 - THIRD YEAR (36 CREDITS)

First Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ITCS	303	Design and Analysis of Algorithms	2	2	3	ITCS 224 AND ITCS 209
ITCS	313	Software Engineering I	2	2	3	ITCS 201
ITCS	323	Database Systems: Design and Application	2	2	3	ITCS 222
ITMS	302	Human Computer Interaction	2	2	3	ITCS 222
HU/SS	XXX	Humanities/ Social Sciences	3	0	3	
					15	

Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ETHC	392	Ethics and Professional Practice in IT and Engineering	3	0	3	Completion of at least 66 credits
ITCS	327	Software Engineering II	3	0	3	ITCS 313
ECTE	329	Computer Networks	2	2	3	ITCS 214
ITCS	333	Introduction to SQL (ODBA - 1)	2	2	3	ITCS 323
ITCS/MS	3XX	Major Elective I	2	2	3	
XXXX	XXX	Free Elective II	X	X	3	
					18	

Summer Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
INTR	463	BSIT Internship	0	0	3	Completion of at least 90 credits And Minimum CGPA 2
					3	

BSIT 18-19 - FOURTH YEAR (33 CREDITS)

First Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ITCS	404	Information Security Engineering	2	2	3	ITCS 327
ITCS	401	Software Project Management	2	2	3	ITCS 327
ITCS	409	Operating Systems	3	0	3	ITCS 214 OR ECCE 303
IERM	498	Research Methods in Information Technology & Engineering	3	0	3	Completion of at least 90 credits
ITCS	4XX	Major Elective II	2	2	3	
ITMA	401	E-Commerce	3	0	3	ITCS 101
					18	

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Second Semester

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ITCS	425	Web Engineering	2	2	3	ITMS 205 AND ITCS 327
ITCS	413	Intelligent Systems	2	2	3	ITCS 303
ITCS	4XX	Major Elective III	2	2	3	
ITCS	427	Mobile Computing	2	2	3	ECTE 329 AND ITCS 221
ITCS	499	Major Project	X	X	3	IERM 498 AND ETHC 392
					15	

LIST OF PROGRAMME ELECTIVE COURSES

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ITCS	334	Introduction to PL/SQL (ODBA - 2)	2	2	3	ITCS 333
ITCS	335	IT Infrastructure	2	2	3	ITCS 214
ITCS	341	System Administration I	2	2	3	ITCS 214
ITCS	422	Distributed Systems	2	2	3	ITCS 409
ITCS	433	Database Administration I (ODBA - 3)	2	2	3	ITCS 334
ITCS	434	Database Administration II (ODBA - 4)	2	2	3	ITCS 433
ITCS	441	System Administration II	2	2	3	ITCS 341
ITCS	442	Virtualization	2	2	3	ITCS 335
ITCS	443	Security Services	2	2	3	ITCS 404
ITCS	444	Cloud Services Implementation	2	2	3	ITCS 442
ITMS	351	Graphics and Multimedia	2	2	3	ITMS 205