College of Information Technology

Bachelor's Degree in Information Technology (BSIT) Program Plan 2024/25

BSIT - FIRST YEAR (32 CREDITS)

FIRST SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	PREREQUISITE
ARAB	101	Composition for Native Speakers of Arabic I	3	0	3	
ENGL	101	Academic English I	3	0	3	(ENGL 052 & 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	101	General Physics I	3	0	3	MATH 053 or passing placement test
		TOTAL PER SEMESTER	16	2	17	

SECOND SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	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
		TOTAL PER SEMESTER	14	2	15	

BSIT - SECOND YEAR (33 CREDITS)

FIRST SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	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	3	0	3	
ITCS	209	Discrete Structures	3	0	3	MATH 102
ITMS	205	Internet Applications and Services	2	2	3	ITCS 101
		TOTAL PER SEMESTER	16	4	18	

SECOND SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	PREREQUISITE
ENGL	213	Report Writing	3	0	3	ENGL 201
ITCS	226	Advanced Programming	2	2	3	ITCS 201
ITCS	214	Computer Systems	3	0	3	ITCS 101
ITCS	225	Introduction to Information Security	3	0	3	ITCS 101
ITCS	224	Data Structures	2	2	3	ITCS 201
		TOTAL PER SEMESTER	13	4	15	

BSIT - THIRD YEAR (36 CREDITS)

FIRST SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	PREREQUISITE
ITCS/MS	3XX	Major Elective I	2	2	3	
ITCS	313	Software Engineering I	2	2	3	ITCS 201
ITCS	323	Database Systems: Design and Application	2	2	3	ITCS 224
ITMS	302	Human Computer Interaction	2	2	3	ITMS205
HU/SS	XXX	Humanities/Social Sciences	3	0	3	
		TOTAL PER SEMESTER	11	8	15	

SECOND SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	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	349	IT Innovation and Entrepreneurship	3	0	3	Completion of at least 66 Credits
ITCS	341	System Administration I	2	2	3	ITCS 214
XXXX	XXX	Free Elective II	3	0	3	
		TOTAL PER SEMESTER	16	4	18	

SUMMER SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	PREREQUISITE
INTR	463	BSIT Internship	0	0	3	Completion of at least 90 credit hours with CGPA ≥2.00
		TOTAL PER SEMESTER	0	0	3	

BSIT - FOURTH YEAR (33 CREDITS)

FIRST SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	PREREQUISITE
ITCS	404	Information Security Engineering	2	2	3	ITCS 225
ITCS	407	IT Project Management	2	2	3	ITCS 327
ITCS	409	Operating Systems	3	0	3	ITCS 214
ITRD	498	Research and Development in Information Technology	3	0	3	Completion of at least 90 credits
ITCS/ECTE	4XX	Major Elective II	2	2	3	
ITMA	401	E-Commerce	3	0	3	ITCS 101
		TOTAL PER SEMESTER	15	6	18	

SECOND SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	PREREQUISITE
ITCS	425	Web Engineering	2	2	3	ITMS205 & ITCS 327
ITCS	422	Distributed Systems	2	2	3	ITCS409
ITCS/ECTE	4XX	Major Elective III	2	2	3	
ITCS	427	Mobile Computing	2	2	3	ECTE 329 & ITCS 201
ITCS	499	Major Project	0	6	3	ITRD 498 & ETHC 392
		TOTAL PER SEMESTER	8	14	15	

LIST OF MAJOR ELECTIVE COURSES

COURSE	CODE	COURSE TITLE	LEC.	LAB	CRE.	PREREQUISITE
ITCS	336	Database Administration I	2	2	3	ITCS 323
ITCS	435	Database Administration II	2	2	3	ITCS 336
ITCS	441	System Administration II	2	2	3	ITCS 341
ITCS	413	Intelligent Systems	2	2	3	ITCS 224
ITCS	335	IT Infrastructure	2	2	3	ITCS 214
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 335
ECTE	421	Network Design and Security	2	2	3	ECTE 329
ITCS	431	Introduction to Data Analytics	2	2	3	ITCS 323
ITMS	341	Digital Marketing Technologies	2	2	3	ITMS205

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