

**Ahlia University**  
**COLLEGE OF INFORMATION TECHNOLOGY**  
**BACHELOR'S DEGREE IN MULTIMEDIA SYSTEMS**  
**BSMS 18-19**

**BSMS 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
					<b>17</b>	

**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
					<b>15</b>	

**BSMS 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
					<b>18</b>	

**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
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**BSMS 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
ITMS	302	Human Computer Interaction	2	2	3	ITCS 222
ITCS	323	Database Systems: Design and Application	2	2	3	ITCS 222
ITMS	307	Multimedia Softwares I	2	2	3	ITMS 205
HU/SS	XXX	Humanities / Social Sciences	3	0	3	
					<b>15</b>	

**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
ITMS	325	Web Applications Design	2	2	3	ITMS 205
ITMS	327	Multimedia Softwares II	2	2	3	ITMS 307
ITMS	335	Web Programming I	2	2	3	ITCS 221
ITMS	3XX	Major Elective I	2	2	3	
ECTE	329	Computer Networks	2	2	3	ITCS 214
					<b>18</b>	

**Summer Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
INTR	464	BSMS Internship	0	0	3	Completion of at least 90 credits And Minimum CGPA 2
					<b>3</b>	

**BSMS 18-19 - FOURTH YEAR (33 CREDITS)**

**First Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ITCS	409	Operating Systems	3	0	3	ITCS 214 OR ECCE 303
ITMS	426	3D Graphics Softwares	2	2	3	ITMS 327
ITMS	336	Web Programming II	2	2	3	ITMS 335
IERM	498	Research Methods in Information Technology & Engineering	3	0	3	Completion of at least 90 credits
ITMS	4XX	Major Elective II	2	2	3	
XXXX	XXX	Free Elective II	X	X	3	
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**Second Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ITCS	422	Distributed Systems	2	2	3	ITCS 409
ITMS	436	Multimedia Applications	2	2	3	ITMS 426
ITMS	4XX	Major Elective III	2	2	3	
ITCS	427	Mobile Computing	2	2	3	ITCS 221 AND ECTE 329
ITMS	499	Major Project	0	6	3	IERM 498 AND ETHC 392
					<b>15</b>	

**LIST OF PROGRAMME ELECTIVE COURSES**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ITMS	347	Video Post Production	2	2	3	ITMS 327
ITMS	350	Desktop Publishing	2	2	3	ITMS 327
ITMS	435	Web Programming III	2	2	3	ITMS 336
ITMS	437	Cloud Services Development	2	2	3	ITMS 435
ITMS	445	Modelling and Animating characters in 3D	2	2	3	ITMS 426