

# BACHELOR'S DEGREE IN MULTIMEDIA SYSTEMS (BSMS)

## BSMS - FIRST YEAR ( 32 CREDITS)

### 1<sup>ST</sup> 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
<b>TOTAL PER SEMESTER</b>			16	2	17	

### 2<sup>ND</sup> 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
<b>TOTAL PER SEMESTER</b>			14	2	15	

## BSMS - SECOND YEAR ( 33 CREDITS)

### 1<sup>ST</sup> SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB.	CRE.	PREREQUISITE
ENGL	201	Academic English III	3	0	3	ENGL 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	201	Introduction to Multimedia Systems	3	0	3	ITCS 101
<b>TOTAL PER SEMESTER</b>			16	4	18	

### 2<sup>ND</sup> SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB.	CRE.	PREREQUISITE
ENGL	202	Academic English IV	3	0	3	ENGL 201
ITMS	205	Internet Applications and Services	2	2	3	ITCS 101
ITCS	214	Computer Systems	3	0	3	ITCS 101
ITCS	221	Object-Oriented Programming II	2	2	3	ITCS 201
ITCS	222	Visual Programming	2	2	3	ITCS 122
ITCS	224	Data Structures	2	2	3	ITCS 201
<b>TOTAL PER SEMESTER</b>			12	6	15	

## BSMS - THIRD YEAR ( 36 CREDITS)

### FIRST SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB.	CRE.	PREREQUISITE
ITMS	313	Game Development I	2	2	3	ITCS 221 and ITCS 209
ITMS	302	Human Computer Interaction (HCI)	2	2	3	ITCS 222
ITCS	323	Database Systems: Design and Application	2	2	3	ITCS 222
ITMS	307	Multimedia Software I	2	2	3	ITMS 201
HU/SS	XXX	Humanities/ Social Sciences	3	0	3	
<b>TOTAL PER SEMESTER</b>			11	8	15	

### SECOND SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB.	CRE.	PREREQUISITE
ETHC	392	Ethics and Professional Practice in IT and Computer Engineering	3	0	3	Completion of at least 66 Credits
ITMS	325	Web Applications Design	2	2	3	ITMS 205
ITMS	327	Multimedia Software II	2	2	3	ITMS 307
ITMS	335	Web Programming I	2	2	3	ITMS205
ITMS	3XX	Major Elective I	2	2	3	
ECTE	329	Computer Networks	2	2	3	ITCS 214
<b>TOTAL PER SEMESTER</b>			13	10	18	

### SUMMER

COURSE	CODE	COURSE TITLE	LEC.	LAB.	CRE.	PREREQUISITE
INTR	464	BSMS Internship	0	0	3	Completion of at least 90 credit hours with CGPA >=2.00
<b>TOTAL PER SEMESTER</b>			0	0	3	

## BSMS - FOURTH YEAR ( 33 CREDITS)

### FIRST SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB.	CRE.	PREREQUISITE
ITCS	409	Operating Systems	3	0	3	ITCS 214 or ECCE 303
ITMS	426	3D Graphics Software	2	2	3	ITMS 327
ITCS	427	Mobile Computing	2	2	3	ITCS 221 and ECTE 329
IERM	498	Research Methods in Information Technology & Engineering	3	0	3	Completion of at least 90 credits
ITMS/CS	4XX	Major Elective II	2	2	3	
XXXX	XXX	Free Elective II	X	X	3	
<b>TOTAL PER SEMESTER</b>			15	6	18	

### SECOND SEMESTER

COURSE	CODE	COURSE TITLE	LEC.	LAB.	CRE.	PREREQUISITE
ITMS	432	Game Development II	2	2	3	ITMS 313
ITMS	436	Multimedia Applications	2	2	3	ITMS 426
ITMS/CS	4XX	Major Elective III	2	2	3	
ITMS	421	Web Programming II	2	2	3	ITMS 335
ITMS	499	Major Project	0	6	3	IERM 498 and ETHC 392
<b>TOTAL PER SEMESTER</b>			8	14	15	

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## LIST OF MAJOR ELECTIVE COURSES

COURSE	CODE	COURSE TITLE	LEC.	LAB.	CRE.	PREREQUISITE
ITMS	347	Video Post-Production	2	2	3	ITMS 327
ITMS	350	Desktop Publishing	2	2	3	ITMS 327
ITCS	422	Distributed Systems	2	2	3	ITCS 409
ITMS	435	Web Programming III	2	2	3	ITMS 421
ITMS	437	Cloud Services Development	2	2	3	ITMS 435
ITMS	445	Modelling and Animating characters in 3D	2	2	3	ITMS 426
ITCS	431	Introduction to Data analytics	2	2	3	ITCS 323
ITCS	452	Advanced Mobile Computing	2	2	3	ITCS 427
ITMS	341	Digital Marketing technologies	2	2	3	ITMS 325