

T.C. BARTIN UNIVERSITY FACULTY OF SCIENCE COMPUTER TECHNOLOGY AND INFORMATION SYSTEMS COURSE PLAN

					1. CLASS	
1ST SEM	ESTER				2ND SEMESTER	
CODE COURSE TITLE	C/E	T A	Credit	ECTS	CODE COURSE TITLE C/E T A	Credit I
BTS101 University Culture	С	1 0	1	1	BSM104 Introduction to Computer Systems and Programming C 1 2	2
3SM103 Algorithms and Introduction to Programming	C	1 2	2	2	BTS104 General Management C 3 0	3
BTS105 Information Technologies I	C	3 0	3	7	BTS106 Information Technologies-II C 3 0	3
MAT101 Mathematics-I	C	3 1	3.5	6	MAT102 Mathematics-II C 3 1	3.5
YD1101 Foreign Language I	C	2 0	2	3	YDİ102 Foreign Language II C 2 0	2
DI10 Turkish Language-I	C	2 0	2	2	TDİ10 Turkish Language-II C 2 0	2
ATA101 Ataturk's Principles and The History of Revolution		2 0	2	2	ATA102 History of Turkish Revolution and Ataturk's Principles 2 C 2 0	2
BTS109 Web Design-I	C	3 0	3	7	BTS110 Web Design-II C 3 0	3
otal Credits and ECTS of Compulsory Courses	Ū,	17 3	18.5	30	Zorunlu Derslerin AKTS Toplamı 19 3	20.5
otal Credits and ECTS of Elective Courses					Secmeli Derslerin AKTS Toplami	
otal of Credits and ECTS				30	Total of Credits and ECTS	
of a of creates and ECTS				50	2. CLASS	
3RD SEM	IESTER				4TH SEMESTER	
CODE COURSE TITLE	C/E	TA	Credit	ECTS	CODE COURSE TITLE C/E T A	Credit I
BTS201 Introduction to Economics	C	3 0	3	4	BTS202 Three Dimensional Modeling Z 3 2	4
BTS203 Object Oriented Programming-I	C	2 2	3	5	BTS202 Infee Differsional Woldering Z 3 2 BTS204 Object Oriented Programming-II Z 2 2	3
BTS205 Cartoon Design	c	3 2	4	5	BTS204 Diject Oriented Programming II Z 3 2 BTS206 Internet Programming Z 3 2	4
EEM203 Electronic Circuit Elements	c	3 0	3	4	BTS200 Internet Programming Z 3 2 BTS208 Game and Animation Z 4 0	4
BTS207 Graphic Design	c	4 0	4	4	Departmental Elective Courses S 3 0	3
Departmental Elective Courses	E	3 0	3	4	Elective Courses Out of Department S 2 0	2
Elective Courses Out of Department	E	2 0	2	4	Elective Courses out of Department 3 2 0	2
otal Credits and ECTS of Compulsory Courses	E	15 4	17	22	Total Credits and ECTS of Compulsory Courses 12 6	15
otal Credits and ECTS of Compulsory Courses		5 0	5	8	Total Credits and ECTS of Compulsory Courses 12 0 Total Credits and ECTS of Elective Courses 5 0	5
otal of Credits and ECTS		5 0	3	30	AKTS Toplami	3
oral of Credits and EC13		+ + -	!	- 30	3. CLASS	
5TH SEM	IFSTER				6TH SEMESTER	
CODE COURSE TITLE	C/E	TA	Credit	ECTS	CODE COURSE TITLE C/E T A	Credit I
				4	BTS302 Visual Programming II C 3 2	4
		3 2	4			
BTS301 Visual Programming I	С	3 2	4	4	BTS304 Database Management Systems-II C 3 2	4
BTS301 Visual Programming I BTS303 Database Management Systems-I	C C	3 2	4	4		4
BTS301 Visual Programming I BTS303 Database Management Systems-I BTS305 Operating Systems	C C C	3 2 3 2	4	5	BTS306 Mobile Application Development-I C 3 2	
BTS301 Visual Programming I BTS303 Database Management Systems-I BTS305 Operating Systems BSM307 Computer Networks	C C C C	3 2 3 2 3 1	4	5 5	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0	4
BTS301 Visual Programming I BTS303 Database Management Systems-I BTS305 Operating Systems BSM307 Computer Networks MAT307 Statistics	C C C C C	3 2 3 2 3 1 4 0	4 4 3,5	5	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS304 Augmented and Virtual Reality Applications C 2 0	4 2
BTS301 Visual Programming I BTS303 Database Management Systems-1 BTS305 Operating Systems BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses	C C C C C E	3 2 3 2 3 1 4 0 3 0		5 5 4 4	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0	4 2 4
BTS301 Visual Programming I BTS305 Database Management Systems-I BTS305 Operating Systems BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses	C C C C C	3 2 3 2 3 1 4 0 3 0 3 0 3 0	4 4 3,5 4 3 3	5 5 4 4 4	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0	4 2 4 3 3
BTS301 Visual Programming I BTS305 Database Management Systems-I BTS305 Operating Systems BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Compulsory Courses	C C C C C E	3 2 3 2 3 1 4 0 3 0 3 0 16 7	4 4 3,5 4 3 3 19,5	5 5 4 4 4 22	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 BTS310 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses E 3 0	4 2 4 3 3 18
BTS301 Visual Programming I BTS302 Database Management Systems-1 BTS305 Operating Systems BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses tal Credits and ECTS of Compulsory Courses tal Credits and ECTS of Elective Courses	C C C C C E	3 2 3 2 3 1 4 0 3 0 3 0 3 0	4 4 3,5 4 3 3	5 5 4 4 4 22 8	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Credits and ECTS of Steerive Courses 6 0	4 2 4 3 3
BTS301 Visual Programming I BTS305 Database Management Systems-1 BTS305 Operating Systems BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses total Credits and ECTS of Compulsory Courses total Credits and ECTS of Elective Courses	C C C C C E	3 2 3 2 3 1 4 0 3 0 3 0 16 7	4 4 3,5 4 3 3 19,5	5 5 4 4 4 22	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total of Credits and ECTS E 0	4 2 4 3 3 18
BTS301 Visual Programming I BTS302 Database Management Systems-1 BTS305 Operating Systems BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS	C C C C C E E E	3 2 3 2 3 1 4 0 3 0 3 0 16 7	4 4 3,5 4 3 3 19,5	5 5 4 4 4 22 8	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Credits and ECTS 6 0 Total Credits and ECTS 4 0	4 2 4 3 3 18
BTS301 Visual Programming I BTS303 Database Management Systems-1 BTS305 Operating Systems BSM307 Computer Networks MAT307 Computer Networks Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Compulsory Courses otal Credits and ECTS of Elective Courses otal of Credits and ECTS otal Credits and ECTS of Selective Courses otal of Credits and ECTS	C C C C C E E ARIYIL	3 2 3 1 4 0 3 0 3 0 16 7 6 0	4 4 3,5 4 3 3 19,5 6	5 5 4 4 4 22 8 30	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Orcedits and ECTS 6 0 4. CLASS 8TH SEMESTER	4 2 4 3 3 18 6
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BTS301 Visual Programming I BTS302 Database Management Systems-1 BTS305 Operating Systems BSM3072 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Elective Courses otal Credits and ECTS of Elective Courses otal of Credits and ECTS CODE COURSE TITLE BTS401 Graduation Project-1	C C C C E E ARIYIL C/E C	3 2 3 2 3 1 4 0 3 0 3 0 16 7 6 0 16 7 6 0	4 4 3,5 4 3 3 19,5 6 Credit 4	5 5 4 4 4 22 8 30 5 5 5 4 4 4 22 8 30 5 5 10	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS3108 Occupational health and Safety C 2 0 BTS3104 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Computory Courses 15 6 Total Credits and ECTS 6 0 4. CLASS 8TH SEMESTER CODE COURSE TITLE C/E ST42Q2 Graduation Project-II C 1	4 2 4 3 3 18 6 Credit I
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BTS301 Visual Programming I BTS302 Database Management Systems-I BTS302 Operating Systems BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Compulsory Courses otal Credits and ECTS of Elective Courses otal of Credits and ECTS OCDE COURSE TITLE BTS401 Graduation Project-I MAT403 Fuzzy Logic BS4040 Bitz Data Analysis	C C C C C E E E C C C C C C C C C C C C	3 2 3 2 3 1 4 0 3 0 3 0 3 0 16 7 6 0 16 7 6 0 17 A 1 6 3 2 2 2	4 4 3,5 4 3 3 19,5 6 Credit 4 4 3	5 5 4 4 22 8 30 ECTS 10 4	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS304 Jugmented and Virtual Reality Applications C 4 0 BTS306 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Credits and ECTS of Elective Courses 6 0 Total Credits and ECTS E 3 4. CLASS STH SEMESTER 6 BTS402 Graduation Project-II C 1 BTS404 Production and Planning C 2 2 BTS404 Data Mining C 4 0	4 2 4 3 3 18 6 6 4 4 3 4
BTS301 Visual Programming I BTS302 Database Management Systems-1 BTS305 Operating Systems B BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Compulsory Courses otal Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal	C C C C C E E E C C C C C C C C C C C C	3 2 3 2 3 1 4 0 3 0 3 0 16 7 6 0 T A 1 6 3 2 2 2 3 2	4 4 3,5 4 3 3 19,5 6 Credit 4 4 3 4	5 5 4 4 4 22 8 30 ECTS 10 4 4 4	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Oredits and ECTS 6 0 4 CLASS 8TH SEMESTER CODE COURSE TITLE C/E T RTS402 Graduation Project-II C 1 6 BTS402 Data Mining C 2 2 BTS402 Data Mining C 2 2	4 2 4 3 3 8 6 6 4 4 3 4 3 3
BTS301 Visual Programming I BTS302 Database Management Systems-1 BTS302 Operating Systems BSM307 Computer Networks Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Compulsory Courses otal Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Compulsory Courses otal of Credits and Sectors Total Credits and Sectors (State Courses) otal of Credits and Sectors (State Courses) otal Credits and Sectors (State Courses) (State Courses) (C C C C E E E S C C C C C C C C C C C C	3 2 3 2 3 1 4 0 3 0 16 7 6 0 16 7 6 0 1 6 3 2 2 2 3 2 3 0 16 7 6 0 1 6 3 0 16 7 6 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	4 4 3,5 4 3 3 19,5 6 Credit 4 4 4 3 3	5 5 4 4 4 22 8 30 ECTS 10 4 4 4 4 4	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS304 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Credits and ECTS 6 0 4. CLASS STH SEMESTER CODE CODE COURSE TITLE C/E T BTS402 Graduation Project-II C 1 BTS404 Production and Planning C 2 2 BTS406 Data Mining C 2 2 BTS406 Data Mining C 2 2	4 2 4 3 3 18 6 6 4 3 3 4 4 3 3 3
BTS301 Visual Programming I BTS302 Database Management Systems-I BTS305 Operating Systems BSM307 Computer Networks MAT307 Statistics Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Compulsory Courses otal Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal Of Cred	C C C C C E E E C C C C C C C C C C C C	3 2 3 2 3 1 4 0 3 0 3 0 16 7 6 0 T A 1 6 3 2 2 2 3 2	4 4 3,5 4 3 3 19,5 6 Credit 4 4 3 4	5 5 4 4 4 22 8 30 ECTS 10 4 4 4	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Oredits and ECTS 6 0 4 CLASS 8TH SEMESTER CODE COURSE TITLE C/E T RTS402 Graduation Project-II C 1 6 BTS402 Data Mining C 2 2 BTS402 Data Mining C 2 2	4 2 4 3 3 8 6 6 4 4 3 4 3 3
BTS301 Visual Programming I BTS302 Database Management Systems-1 BTS303 Operating Systems BSM307 Computer Networks Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Compulsory Courses otal Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal of Credits and Strops of Elective Courses otal of Credits and Strops of Elective Courses otal of Credits and Strops of Elective Courses otal of Courses of the Course of the Cou	C C C C E E E S C C C C C C C C C C C C	3 2 3 2 3 1 4 0 3 0 3 0 16 7 6 0 7 6 1 6 2 2 3 2 3 2 3 2 3 0 3 0 3 0 3 0	4 4 3,5 4 3 3 19,5 6 Credit 4 4 4 3 3 4 4 3 3	5 5 4 4 4 22 8 30 ECTS 10 4 4 4 4 4 4 4	BTS306 Mobile Application Development-1 C 3 2 BTS308 Occupational health and Safety C 2 0 BTS310 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Credits and ECTS 6 0 Total O Credits and ECTS 1 6 4. CLASS STH SEMESTER 1 CODE COURSE TITLE CE 1 BTS404 Production and Planning C 2 2 BTS405 Data Mining C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0	4 2 4 3 3 18 6 4 3 4 3 3 3 3 3
BTS301 Visual Programming I BTS301 Database Management Systems-I BTS305 Operating Systems BSM307 Computer Networks Departmental Elective Courses Departmental Elective Courses otal Credits and ECTS of Compulsory Courses otal Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Compulsory Courses otal of Credits and ECTS of Elective Courses otal of Credits and ECTS of Elective Courses otal Graduation Project-I MAT403 [Puzzy Logic BSM405 Big Data Analysis Departmental Elective Courses	C C C C E E E S C C C C C C C C C C C C	3 2 3 2 3 1 4 0 3 0 3 0 16 7 6 0 7 6 1 3 2 2 3 2 3 2 3 2 3 2 3 0 3 0 3 0	4 4 3,5 4 3 3 19,5 6 Credit 4 4 4 3 3	5 5 4 4 4 22 8 30 ECTS 10 4 4 4 4 4	BTS306 Mobile Application Development-I C 3 2 BTS308 Occupational health and Safety C 2 0 BTS304 Augmented and Virtual Reality Applications C 4 0 Departmental Elective Courses E 3 0 Departmental Elective Courses E 3 0 Total Credits and ECTS of Compulsory Courses 15 6 Total Credits and ECTS 6 0 4. CLASS STH SEMESTER CODE CODE COURSE TITLE C/E T BTS402 Graduation Project-II C 1 BTS404 Production and Planning C 2 2 BTS406 Data Mining C 2 2 BTS406 Data Mining C 2 2	4 2 4 3 3 18 6 6 4 3 3 4 4 3 3 3

PROGRAM ECTS SUMMARY	
Total ECTS required to be taken from compulsory courses for all years	188
Total ECTS required to be taken from elective courses for all years	52
Total ECTS required to be taken from elective courses for all years	240

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IS223 DESKTOP PUBLISHING	3			4
		0		4
	2		3	4
IS225 MEDIA LITERACY	5	0	3	4
IS222 MULTIMEDIA DESIGN	3	0	3	4
IS224 REQUIREMENT ANALYSIS	3	0	3	4
IS226 VIDEO DESIGN	3	0	3	4
IS321 E-COMMERCE	3	0	3	4
IS323 ENTREPRENEURSHIP	3	0	3	4
IS325 COMMUNICATION TECHNIQUES	3	0	3	4
IS327 HUMAN COMPUTER INTERACTION	3	0	3	4
IS322 Virtualization and Cloud Computing	3	0	3	4
M324 Artificial intelligence	3	0	3	4
IS326 Game Programming	3	0	3	4
IS328 Human Performance Technologies	3	0	3	4
IS421 Robotic Programming	3	0	3	4
M423 System Analysis	3	0	3	4
IS425 Research Methods	3	0	3	4
IS427 Mobile Application Development-II	3	0	3	4
IS429 Cyber Security and IT Law	3	0	3	4
IS422 Open Source Software	3	0	3	4
IS424 Learning Management Systems	3	0	3	4
IS426 Ethical and Social Issues in Information Systems	3	0	3	4
IS428 Interactive Content Design	3	0	3	4
IS430 Project Development and Method	3	0	3	4
IS432 Sectoral Applications in Information Systems	3	0	3	4

NOTE: Credit represents the national credit value and is equal to the sum of theoretical hours + 1/2 practice hours of a course. NOTE: Undergraduate students must take at least 2 elective courses outside the department during their 4-year education period, and associate degree students must take at least 1 non-departmental elective course during their 2-year education period.