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

1. CLASS

1ST SEMESTER

CODE	COURSE TITLE	C/E	T	A	Credit	ECTS
BTS101	University Culture	C	1	0	1	1
BSM103	Algorithms and Introduction to Programming	C	1	2	2	2
BTS105	Information Technologies I	C	3	0	3	7
MAT101	Mathematics-I	C	3	1	3,5	6
YDl101	Foreign Language I	C	2	0	2	3
TDl10	Turkish Language-I	C	2	0	2	2
ATA101	Ataturk's Principles and The History of Revolution 1	C	2	0	2	2
BTS109	Web Design-I	C	3	0	3	7
Total Credits and ECTS of Compulsory Courses			**17**	**3**	**18,5**	**30**
Total Credits and ECTS of Elective Courses						
Total of Credits and ECTS						**30**

2ND SEMESTER

CODE	COURSE TITLE	C/E	T	A	Credit	ECTS
BSM104	Introduction to Computer Systems and Programming	C	1	2	2	2
BTS104	General Management	C	3	0	3	3
BTS106	Information Technologies-II	C	3	0	3	6
MAT102	Mathematics-II	C	3	1	3,5	7
YDl102	Foreign Language II	C	2	0	2	3
TDl10	Turkish Language-II	C	2	0	2	2
ATA102	History of Turkish Revolution and Ataturk's Principles 2	C	2	0	2	2
BTS110	Web Design-II	C	3	0	3	5
Zorunlu Derslerin AKTS Toplamı			**19**	**3**	**20,5**	**30**
Seçmeli Derslerin AKTS Toplamı						
Total of Credits and ECTS						**30**

2. CLASS

3RD SEMESTER

CODE	COURSE TITLE	C/E	T	A	Credit	ECTS
BTS201	Introduction to Economics	C	3	0	3	4
BTS203	Object Oriented Programming-I	C	2	2	3	5
BTS205	Cartoon Design	C	3	2	4	5
EEM203	Electronic Circuit Elements	C	3	0	3	4
BTS207	Graphic Design	C	4	0	4	4
	Departmental Elective Courses	E	3	0	3	4
	Elective Courses Out of Department	E	2	0	2	4
Total Credits and ECTS of Compulsory Courses			**15**	**4**	**17**	**22**
Total Credits and ECTS of Elective Courses			**5**	**0**	**5**	**8**
Total of Credits and ECTS						**30**

4TH SEMESTER

CODE	COURSE TITLE	C/E	T	A	Credit	ECTS
BTS202	Three Dimensional Modeling	Z	3	2	4	7
BTS204	Object Oriented Programming-II	Z	2	2	3	4
BTS206	Internet Programming	Z	3	2	4	6
BTS208	Game and Animation	Z	4	0	4	5
	Departmental Elective Courses	S	3	0	3	4
	Elective Courses Out of Department	S	2	0	2	4
Total Credits and ECTS of Compulsory Courses			**12**	**6**	**15**	**22**
Total Credits and ECTS of Elective Courses			**5**	**0**	**5**	**8**
AKTS Toplamı						**30**

3. CLASS

5TH SEMESTER

CODE	COURSE TITLE	C/E	T	A	Credit	ECTS
BTS301	Visual Programming I	C	3	2	4	4
BTS303	Database Management Systems-I	C	3	2	4	4
BTS305	Operating Systems	C	3	2	4	5
BSM307	Computer Networks	C	3	1	3,5	5
MAT307	Statistics	C	4	0	4	4
	Departmental Elective Courses	E	3	0	3	4
	Departmental Elective Courses	E	3	0	3	4
Total Credits and ECTS of Compulsory Courses			**16**	**7**	**19,5**	**22**
Total Credits and ECTS of Elective Courses			**6**	**0**	**6**	**8**
Total of Credits and ECTS						**30**

6TH SEMESTER

CODE	COURSE TITLE	C/E	T	A	Credit	ECTS
BTS302	Visual Programming II	C	3	2	4	6
BTS304	Database Management Systems-II	C	3	2	4	6
BTS306	Mobile Application Development-I	C	3	2	4	4
BTS308	Occupational health and Safety	C	2	0	2	2
BTS310	Augmented and Virtual Reality Applications	C	4	0	4	4
	Departmental Elective Courses	E	3	0	3	4
	Departmental Elective Courses	E	3	0	3	4
Total Credits and ECTS of Compulsory Courses			**15**	**6**	**18**	**22**
Total Credits and ECTS of Elective Courses			**6**	**0**	**6**	**8**
Total of Credits and ECTS						**30**

4. CLASS

7. YARIYIL

CODE	COURSE TITLE	C/E	T	A	Credit	ECTS
BTS401	Graduation Project-I	C	1	6	4	10
MAT403	Fuzzy Logic	C	3	2	4	4
BSM405	Big Data Analysis	C	2	2	3	4
BTS407	Applied Data Analysis	C	3	2	4	4
	Departmental Elective Courses	E	3	0	3	4
	Departmental Elective Courses	E	3	0	3	4
Total Credits and ECTS of Compulsory Courses			**9**	**12**	**15**	**22**
Total Credits and ECTS of Elective Courses			**6**	**0**	**6**	**8**
Total of Credits and ECTS						**30**

8TH SEMESTER

CODE	COURSE TITLE	C/E	T	A	Credit	ECTS
BTS402	Graduation Project-II	C	1	6	4	10
BTS404	Production and Planning	C	2	2	3	4
BTS406	Data Mining	C	4	0	4	4
	Departmental Elective Courses	E	3	0	3	4
	Departmental Elective Courses	E	3	0	3	4
	Departmental Elective Courses	E	3	0	3	4
Total Credits and ECTS of Compulsory Courses			**7**	**8**	**11**	**18**
Total Credits and ECTS of Elective Courses			**9**	**0**	**9**	**12**
Total of Credits and ECTS						**30**

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

DEPARTMENTAL ELECTIVE COURSES

Course code	Course title	T	A	C	ECTS
BTS221	NEW TECHNOLOGIES	3	0	3	4
BTS223	DESKTOP PUBLISHING	3	0	3	4
BTS225	MEDIA LITERACY	3	0	3	4
BTS222	MULTIMEDIA DESIGN	3	0	3	4
BTS224	REQUIREMENT ANALYSIS	3	0	3	4
BTS226	VIDEO DESIGN	3	0	3	4
BTS321	E-COMMERCE	3	0	3	4
BTS323	ENTREPRENEURSHIP	3	0	3	4
BTS325	COMMUNICATION TECHNIQUES	3	0	3	4
BTS327	HUMAN COMPUTER INTERACTION	3	0	3	4
BTS322	Virtualization and Cloud Computing	3	0	3	4
BSM324	Artificial intelligence	3	0	3	4
BTS326	Game Programming	3	0	3	4
BTS328	Human Performance Technologies	3	0	3	4
BTS421	Robotic Programming	3	0	3	4
BSM423	System Analysis	3	0	3	4
BTS425	Research Methods	3	0	3	4
BTS427	Mobile Application Development-II	3	0	3	4
BTS429	Cyber Security and IT Law	3	0	3	4
BTS422	Open Source Software	3	0	3	4
BTS424	Learning Management Systems	3	0	3	4
BTS426	Ethical and Social Issues in Information Systems	3	0	3	4
BTS428	Interactive Content Design	3	0	3	4
BTS430	Project Development and Method	3	0	3	4
BTS432	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.