



T.C.
BARTIN UNIVERSITY
FACULTY OF SCIENCE

DEPARTMENT OF STATISTICS / UNDERGRADUATE CURRICULUM

FRESHMAN YEAR

1. SEMESTER							2. SEMESTER						
Code	Course Name	C/E	T	A	Credit	ECTS	Code	Course Name	C/E	T	A	Credit	ECTS
IST 101	Probability - 1	C	4	0	4	7	IST 102	Probability - 2	C	4	0	4	7
MAT 181	Mathematics - 1	C	4	0	4	7	MAT 182	Mathematics - 2	C	4	0	4	7
TBT 183	Use of Basic Information Technologies	C	3	0	3	6	IST 104	Introduction to Computer Programming	C	3	0	3	6
MAT 183	Linear Algebra	C	3	0	3	5	IST 106	Introduction to Statistics - 1	C	3	0	3	5
TUR 181	Turkish Language - 1	C	2	0	2	2	TUR 182	Turkish Language - 2	C	2	0	2	2
YDL 181	Foreign Language - 1	C	2	0	2	3	YDL 182	Foreign Language - 2	C	2	0	2	3
Total ECTS (Compulsory)			18	0	18	30	Total ECTS (Compulsory)			18	0	18	30
Total ECTS (First Semester)							Total ECTS (Second Semester)						

SOPHOMORE YEAR

3. SEMESTER							4. SEMESTER						
Code	Course Name	C/E	T	A	Credit	ECTS	Code	Course Name	C/E	T	A	Credit	ECTS
IST 201	Mathematical Statistics - 1	C	4	0	4	7	IST 202	Mathematical Statistics - 2	C	4	0	4	7
MAT 281	Mathematics - 3	C	4	0	4	6	MAT 282	Mathematics - 4	C	4	0	4	6
IST 203	Computer Programming - 2	C	3	0	3	6	IST 204	Computer Programming - 3	C	3	0	3	6
IST 205	Introduction to Operational Research	C	3	0	3	5	IST 206	Introduction to Statistics - 2	C	3	0	3	5
AIT 281	Principles of Atatürk and History of Revolutions - 1	C	2	0	2	2	AIT 282	Principles of Atatürk and History of Revolutions - 2	C	2	0	2	2
	Outside of Dept.-Selective	E	3	0	3	4		Outside of Dept.-Selective	E	3	0	3	4
Total ECTS (Compulsory)			16	0	16	26	Total ECTS (Compulsory)			16	0	16	26
Total ECTS (Elective)			3	0	3	4	Total ECTS (Elective)			3	0	3	4
Total ECTS (Third Semester)							Total ECTS (Fourth Semester)						

JUNIOR YEAR

5. SEMESTER							6. SEMESTER						
Code	Course Name	C/E	T	A	Credit	ECTS	Code	Course Name	C/E	T	A	Credit	ECTS
IST 301	Multivariate Statistics - 1	C	4	0	4	6	IST 302	Multivariate Statistics - 2	C	4	0	4	6
IST 303	Regression	C	4	0	4	6	IST 304	Design of Experiment	C	4	0	4	6
IST 305	Sampling	C	4	0	4	5	IST 306	Nonparametric Statistics	C	4	0	4	5
IST 307	Random Numbers and Simulation	C	4	0	4	5	IST 308	Statistical Methods using R	C	4	0	4	5
	Selective	E	3	0	3	4		Selective	E	3	0	3	4
	Selective	E	3	0	3	4		Selective	E	3	0	3	4
Total ECTS (Compulsory)			16	0	16	22	Total ECTS (Compulsory)			16	0	16	22
Total ECTS (Elective)			6	0	6	8	Total ECTS (Elective)			6	0	6	8
Total ECTS (Fifth Semester)							Total ECTS (Sixth Semester)						

SENIOR YEAR

7. SEMESTER							8. SEMESTER						
Code	Course Name	C/E	T	A	Credit	ECTS	Code	Course Name	C/E	T	A	Credit	ECTS
IST 401	Stochastic Processes	C	4	0	4	7	IST 402	Advanced Statistical Methods using R	C	4	0	4	7
IST 403	Data Analysis	C	4	0	4	7	IST 404	Categorical Data Analysis	C	4	0	4	7
	Elective	E	3	0	3	4		Elective	E	3	0	3	4
	Elective	E	3	0	3	4		Elective	E	3	0	3	4
	Elective	E	3	0	3	4		Elective	E	3	0	3	4
	Elective	E	3	0	3	4		Elective	E	3	0	3	4
	Elective	E	3	0	3	4		Elective	E	3	0	3	4
Total ECTS (Compulsory)			8	0	8	14	Total ECTS (Compulsory)			8	0	8	14
Total ECTS (Elective)			12	0	12	16	Total ECTS (Elective)			15	0	15	15
Total ECTS (Seventh Semester)							Total ECTS (Eighth Semester)						

SUMMARY OF PROGRAM-ECTS

Total ECTS-Credits (Compulsory)	180
Total ECTS-Credits (Elective)	60
Total ECTS-Credits (Graduation)	240

ELECTIVE COURSES

Code	Course Name	T	A	Cr	ECTS
ORD 383	Applied Entrepreneurship	2	2	3	4
IST 309	Numerical Analysis	3	0	3	4
IST 311	Professional Ethics in Statistical Research	3	0	3	4
IST 313	Biostatistics	3	0	3	4
IST 310	Research Methods	3	0	3	4
IST 312	Statistics in Life Sciences	3	0	3	4
IST 314	Official Statistics	3	0	3	4
IST 405	Special Issue - 1	0	2	1	4
IST 407	Linear Models	3	0	3	4
IST 409	Financial Mathematics	3	0	3	4
IST 411	Decision Making and Game Theory	3	0	3	4
IST 413	Bayesian Statistics	3	0	3	4
IST 415	Time Series	3	0	3	4
IST 417	Statistical Data Mining	3	0	3	4
IST 419	Advanced Design of Experiment	3	0	3	4
IST 421	Internship	1	0	1	4
IST 406	Special Topic - 2	0	2	1	4
IST 408	Econometrics	3	0	3	4
IST 410	Actuary	3	0	3	4
IST 412	Statistical Quality Control	3	0	3	4
IST 414	Statistical Software	3	0	3	4
IST 416	Reliability	3	0	3	4
IST 418	Risk Analysis	3	0	3	4
IST 420	Professional Foreign Language	3	0	3	4
IST 422	Operational Research	3	0	3	4

