

DEPARTMENT OF STATISTICS / UNDERGRADUATE CURRICULUM

FRESHMAN YEAR

First Semester							Second 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	7	7	IST 102	Probability - 2	C	4	0	7	7
MAT 181	Mathematics - 1	C	4	0	7	7	MAT 182	Mathematics - 2	C	4	0	7	7
TBT 183	Use of Basic Information Technologies	C	3	0	6	6	IST 104	Introduction to Computer Programming	C	3	0	6	6
MAT 183	Linear Algebra	C	3	0	5	5	IST 106	Introduction to Statistics - 1	C	3	0	5	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	3	3	YDL 182	Foreign Language - 2	C	2	0	3	3
Total ECTS (Compulsory)							Total ECTS (Compulsory)						
--- --- --- 30							--- --- --- 30						
Total ECTS (Elective)							Total ECTS (Elective)						
--- --- --- 0							--- --- --- 0						
Total ECTS (First Semester)							Total ECTS (Second Semester)						
--- --- --- 30							--- --- --- 30						

SOPHOMORE YEAR

Third Semester							Fourth 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	7	7	IST 202	Mathematical Statistics - 2	C	4	0	7	7
MAT 281	Mathematics - 3	C	4	0	6	6	MAT 282	Mathematics - 4	C	4	0	6	6
IST 203	Computer Programming - 2	C	3	0	6	6	IST 204	Computer Programming - 3	C	3	0	6	6
IST 205	Introduction to Operational Research	C	3	0	5	5	IST 206	Introduction to Statistics - 2	C	3	0	5	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
ORD 283	Methodology in Social Sciences	E	2	2	4	4	ORD 284	Introduction to Economy	E	3	0	4	4
ORD 285	Applied Entrepreneurship	E	2	2	4	4	ORD 286	General Management	E	3	0	4	4
Total ECTS (Compulsory)							Total ECTS (Compulsory)						
--- --- --- 26							--- --- --- 26						
Total ECTS (Elective)							Total ECTS (Elective)						
--- --- --- 4							--- --- --- 4						
Total ECTS (Third Semester)							Total ECTS (Fourth Semester)						
--- --- --- 30							--- --- --- 30						

JUNIOR YEAR

Fifth Semester							Sixth 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	6	6	IST 302	Multivariate Statistics - 2	C	4	0	6	6
IST 303	Regression	C	4	0	6	6	IST 304	Design of Experiment	C	4	0	6	6
IST 305	Sampling	C	4	0	5	5	IST 306	Nonparametric Statistics	C	4	0	5	5
IST 307	Time Series	C	4	0	5	5	IST 308	Random Numbers and Simulation	C	4	0	5	5
IST 309	Numerical Analysis	E	3	0	4	4	IST 310	Research Methods	E	3	0	4	4
IST 311	Statistical Methods	E	3	0	4	4	IST 312	Statistics in Life Sciences	E	3	0	4	4
IST 313	Biostatistics	E	3	0	4	4	IST 314	Official Statistics	E	3	0	4	4
Total ECTS (Compulsory)							Total ECTS (Compulsory)						
--- --- --- 22							--- --- --- 22						
Total ECTS (Elective)							Total ECTS (Elective)						
--- --- --- 8							--- --- --- 8						
Total ECTS (Fifth Semester)							Total ECTS (Sixth Semester)						
--- --- --- 30							--- --- --- 30						

SENIOR YEAR

Seventh Semester							Eighth 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	7	7	IST 402	Advanced Statistical Methods	C	4	0	6	6
IST 403	Data Analysis	C	4	0	7	7	IST 404	Categorical Data Analysis	C	4	0	4	4
IST 405	Special Topic - 1	E	0	2	4	4	IST 406	Special Topic - 2	E	0	2	4	4
IST 407	Linear Models	E	3	0	4	4	IST 408	Econometrics	E	3	0	4	4
IST 409	Risk Analysis	E	3	0	4	4	IST 410	Actuary	E	3	0	4	4
IST 411	Decision Making and Game Theory	E	3	0	4	4	IST 412	Statistical Quality Control	E	3	0	4	4
IST 413	Bayesian Statistics	E	3	0	4	4	IST 414	Statistical Software	E	3	0	4	4
IST 415	Operational Research	E	3	0	4	4	IST 416	Reliability	E	3	0	4	4
IST 417	Statistical Data Mining	E	3	0	4	4	IST 418	Financial Mathematics	E	3	0	4	4
							IST 420	Professional Foreign Language	E	3	0	4	4
Total ECTS (Compulsory)							Total ECTS (Compulsory)						
--- --- --- 14							--- --- --- 10						
Total ECTS (Elective)							Total ECTS (Elective)						
--- --- --- 16							--- --- --- 20						
Total ECTS (Seventh Semester)							Total ECTS (Eighth Semester)						
--- --- --- 30							--- --- --- 30						

SUMMARY OF PROGRAM-ECTS

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