

FACULTY OF SCIENCE DEPARTMENT OF STATISTICS UNDERGRADUATE PROGRAM													
FIRST YEAR													
1nd Semester							2nd Semester						
COURSE CODE	Course name	M/S	T	A	C	ECTS	COURSE CODE	Course name	M/S	T	A	C	ECTS
İST1101	Introduction to Probability and Statistics-I	M	2	2	3	8	İST1102	Introduction to Probability and Statistics-II	M	2	2	3	8
İST1111	Data Science	M	3	0	3	3	İST1112	Critical and Analytical Thinking	M	3	0	3	3
YMH1113	Algorithm and Programming-I	M	2	2	3	3	YMH1114	Algorithm and Programming-II	M	2	2	3	3
MAT1131	Linear Algebra-I	M	4	2	5	6	MAT1132	Linear Algebra-II	M	4	2	5	6
MAT1133	Mathematics-I	M	4	0	4	6	MAT1134	Mathematics-II	M	4	0	4	6
TRD109	Turkish Language-I	M	2	0	2	2	TRD110	Turkish Language-II	M	2	0	2	2
YDİ107	Foreign Language-I	M	2	0	2	2	YDİ108	Foreign Language-II	M	2	0	2	2
	Total Period		19	6	22	30		Total Period		19	6	22	30
SECOND YEAR													
3rd Semester							4th Semester						
COURSE CODE	Course name	M/S	T	A	C	ECTS	COURSE CODE	Course name	M/S	T	A	C	ECTS
İST2101	Sampling	M	3	0	3	5	İST2118	Nonparametric Statistical Methods	M	3	0	3	5
İST2103	Hypothesis Testing	M	3	0	3	6	İST2104	Experimental Design	M	3	0	3	6
İST2105	Mathematical Statistics-I	M	3	0	3	6	İST2106	Mathematical Statistics-II	M	3	0	3	6
	Intra-Field Elective Course-1	S	3	0	3	3		Intra-Field Elective Course-3	S	3	0	3	3
	Intra-Field Elective Course-2	S	3	0	3	3		Intra-Field Elective Course-4	S	3	0	3	3
	Out-of-Field Elective Course-1	S	3	0	3	3		Out-of-Field Elective Course-2	S	3	0	3	3
AİT209	History of Atatürk's Principles and Revolutions-I	M	2	0	2	2	AİT210	History of Atatürk's Principles and Revolutions-II	M	2	0	2	2
YDİ207	Foreign Language-III	M	2	0	2	2	YDİ208	English-IV	M	2	0	2	2
	Intra-Field Elective Course-1 List							Intra-Field Elective Course-3 List					
İST2107	Categorical Data Analysis with the Help of MAXQDA Program	S	3	0	3	3	İST2108	Statistical Software	S	3	0	3	3
İST2109	Demography	S	3	0	3	3	İST2110	Econometric Models	S	3	0	3	3
İST2111	Time Series Analysis	S	3	0	3	3	İST2112	Statistical Quality Control	S	3	0	3	3
	Intra-Field Elective Course-2 List							Intra-Field Elective Course-4 List					
İST2113	System Reliability-I	S	3	0	3	3	İST2114	System Reliability-II	S	3	0	3	3
İST2115	Combinatorial Probability	S	3	0	3	3	İST2116	Axiomatic Probability	S	3	0	3	3
İST2117	Variance Analysis	S	3	0	3	3	İST2102	Survey Design	S	3	0	3	3
	Out-of-Field Elective Course-1 List							Out-of-Field Elective Course-2 List					
YMH2119	Data Structures	S	3	0	3	3	YMH2120	Database Management Systems	S	3	0	3	3
MAT2135	Real Analysis	S	3	0	3	3	MAT2136	Z Transform	S	3	0	3	3
İKT2123	Basic Macroeconomic Indicators	S	3	0	3	3	İKT2124	Economic Systems	S	3	0	3	3
	Total Period		22	0	22	30		Total Period		22	0	22	30
THIRD YEAR													
5th Semester							6th Semester						
COURSE CODE	Course name	M/S	T	A	C	ECTS	COURSE CODE	Course name	M/S	T	A	C	ECTS
İST3101	Optimization	M	4	0	4	6	İST3102	Operations	M	4	0	4	6
İST3103	Regression	M	3	0	3	5	İST3104	Forecasting Theory	M	3	0	3	5
İST3105	Multivariate Normal Distribution	M	3	0	3	5	İST3106	Multivariate Statistical Analysis	M	3	0	3	5
	Intra-Field Elective Course-5	S	3	0	3	4		Intra-Field Elective Course-7	S	3	0	3	4
	Intra-Field Elective Course-6	S	3	0	3	4		Intra-Field Elective Course-8	S	3	0	3	4
	Out-of-Field Elective Course-3	S	3	0	3	3		Out-of-Field Elective Course-4	S	3	0	3	3
SSD3101	Social Elective Course-I	S	2	0	2	3	SSD3102	Social Elective Course-II	S	2	0	2	3
	Intra-Field Elective Course-5 List							Intra-Field Elective Course-7 List					
İST3107	Probability Problems	S	3	0	3	4	İST3108	Experimental Probability	S	3	0	3	4
İST3109	Experimental Design Applications with Packaged Programs	S	3	0	3	4	İST3110	Bivariate Distribution Functions	S	3	0	3	4
İST3111	Scale Development	S	3	0	3	4	İST3112	Quality Assurance and Standards	S	3	0	3	4
İST3113	Survival Analysis and Censored Data	S	3	0	3	4	İST3114	Statistical Randomness Tests	S	3	0	3	4
	Intra-Field Elective Course-6 List							Intra-Field Elective Course-8 List					
İST3115	Machine Learning	S	3	0	3	4	İST3116	R Programming	S	3	0	3	4
İST3117	Distribution Functions	S	3	0	3	4	İST3118	Data Analysis in Repeated Measures	S	3	0	3	4
İST3119	Programming with SAS	S	3	0	3	4	İST3120	Order Statistics	S	3	0	3	4
	Out-of-Field Elective Course-3 List							Out-of-Field Elective Course-4 List					
YMH3121	Web Design and Programming	S	3	0	3	3	YMH3122	Data Processing	S	3	0	3	3
İKT3123	Turkish Economy	S	3	0	3	3	YBS3124	Decision Support Systems for Businesses	S	3	0	3	3
İSG3125	Occupational Health and Safety	S	3	0	3	3	İSG3126	Disaster and Emergency Management	S	3	0	3	3

YMH3127	Data Mining	S	3	0	3	3	YMH3128	Artificial Intelligence	S	3	0	3	3
YBS3129	Electronic Commerce and Electronic Business	S	3	0	3	3	YBS3130	Information Systems Security and Risk Management	S	3	0	3	3
MAT3137	Numerical Analysis	S	3	0	3	3	MAT3138	Transformations	S	3	0	3	3
	Total Period		21	0	21	30		Total Period		21	0	21	30
FOURTH YEAR													
7th Semester							8th Semester						
COURSE CODE	Course name	M/S	T	A	C	ECTS	COURSE CODE	Course name	M/S	T	A	C	ECTS
IST4101	Discrete Parameter Markov Chains	M	4	0	4	6	IST4102	Markov Chains with Continuous Parameters	M	4	0	4	6
IST4103	Report Writing and Presentation Skills	M	3	0	3	6	IST4104	Graduation Project	M	0	4	2	6
IST4109	Risk Analysis	M	3	0	3	4	IST4106	Statistical Decision Theory	M	3	0	3	4
	Intra-Field Elective Course-9	S	3	0	3	4		Intra-Field Elective Course-11	S	3	0	3	4
	Intra-Field Elective Course-10	S	3	0	3	4		Intra-Field Elective Course-12	S	3	0	3	4
	Out-of-Field Elective Course-5	S	3	0	3	3		Out-of-Field Elective Course-6	S	3	0	3	3
SSD4101	Social Elective Course-III	S	2	0	2	3	SSD4102	Social Elective Course-IV	S	2	0	2	3
	Intra-Field Elective Course-9 List							Intra-Field Elective Course-11 List					
IST4107	Biostatistics	S	3	0	3	4	IST4108	Statistical Methods in Clinical Trials	S	3	0	3	4
IST4105	Research Methods in Social Sciences	S	3	0	3	4	IST4110	Data Envelopment Analysis	S	3	0	3	4
IST4111	Robust Estimation Methods	S	3	0	3	4	IST4112	Discrete Multivariate Data Analysis	S	3	0	3	4
	Intra-Field Elective Course-10 List							Intra-Field Elective Course-12 List					
IST4113	High-Dimensional Covariance Estimations	S	3	0	3	4	IST4114	Simulation Techniques	S	3	0	3	4
IST4115	Statistical Analysis with MATLAB	S	3	0	3	4	IST4116	Statistical Information Criteria	S	3	0	3	4
IST4117	Operations Applications with Packaged Programs	S	3	0	3	4	IST4118	History of Statistics	S	3	0	3	4
	Out-of-Field Elective Course-5 List							Out-of-Field Elective Course-6 List					
YMH4119	Data Analysis with Artificial Intelligence	S	3	0	3	3	YMH4120	Blockchain Technologies	S	3	0	3	3
İKT4121	World Economy	S	3	0	3	3	İKT4122	Financial Crises	S	3	0	3	3
İSG4123	Risk Management and Assessment	S	3	0	3	3	İSG4124	Occupational Health and Safety Management Systems	S	3	0	3	3
YMH4125	Bioinformatics	S	3	0	3	3	YMH4126	Cryptology	S	3	0	3	3
YBS4127	Supply Chain Methodology	S	3	0	3	3	YBS4128	Innovative and Product Service Design	S	3	0	3	3
MAT4139	Custom Defined Functions	S	3	0	3	3	MAT4140	Metric and Normed Structures	S	3	0	3	3
	Total Period		21	0	21	30		Total Period		18	4	20	30