	ELTE TAT	ľK Program	n Plan Si	urvey Stati:	stics and Data	Analytics For stude	ents admitted since 20)25		
Program: Survey Statistics and Data Analytics Schedule: daytime Toul credits: 120 (4 semesters) Level: Master (MSc) Language: english Prygram director: Renáta Németh										
Subject code	Subject name	Semester	Credit	Hours per week	Subject type	Course format	Requirement	Prerequisite courses*		
	M	MATHEMATI	CAL FOU	INDATIO	NS >> 21 cred	its are mandatory				
	Fundamentals of Mathematics I	1	3		Compulsory	Lecture	Exam (5)			
	Analysis Lecture	1	3		Compulsory	Lecture	Exam (5)	Analysis Practice		
	Analysis Practice Probability Theory Lecture	1	3		Compulsory	Seminar Lecture	Term mark (5) Exam (5)	Probability Theory Practice		
	Probability Theory Practice	1	2		Compulsory	Seminar	Term mark (5)	Trobability Theory Tractice		
	Fundamentals of Mathematics II	2	3		Compulsory	Lecture	Exam (5)			
	Mathematical Statistics Lecture	2	3		Compulsory	Lecture	Exam (5)	Mathematical Statistics Practice		
	Mathematical Statistics Practice	2	2	2	Compulsory	Seminar	Term mark (5)	Probability Theory Lecture		
	DA	TA COLLEC	ΓΙΟΝ ANI	PROCES	SSING >> 6 ci	redits are mandatory				
	Data Collection Methods and Sampling	1	3	2	Compulsory	Lecture	Exam (5)			
	Survey Data Processing	2	3	2	Compulsory	Seminar	Term mark (5)			
						credits are mandatory with courses similar in conte	nt)			
	Market Research I	2	3	2	Compulsory	Lecture	Exam (5)			
	Market Research II	3	3		Compulsory	Seminar	Term mark (5)	Market Research I		
				I	Compulsory					
	Project Seminar Communication and Project Management	3,4 2,3,4	4	3	Compulsory	Seminar	Term mark (5)	1		
	Communication and Project Management				Compulsory	Seminar	Term mark (5)			
	(4th semeste				credits are man mobility program v	datory vith courses similar in conte	nt)			
	Introduction to R	1	o de complete.		Compulsory	Seminar	Term mark (5)			
	Introduction to R Introduction to Python	2	3	2	Compulsory	Seminar	Term mark (5)			
	Data analysis infrastructure				Compulsory		(0)			
SST-PROG1	(SQL, Git, other tools)	2,4	4	2	elective	Seminar	Term mark (5)	Introduction to Python		
	(4th semeste				credits are man	ndatory vith courses similar in conte	nt)			
					7, 3	l	1	Mathematical Statistics Lecture,		
	Multivariate Statistics Lecture	3	3	2	Compulsory	Lecture	Exam (5)	Multivariate Statistics Practice		
	Multivariate Statistics Practice	3	2	1	Compulsory	Seminar	Term mark (5)	Mathematical Statistics Lecture, Multivariate Statistics Lecture		
	Data Analysis I	3	3	2	Compulsory	Seminar	Term mark (5)	Mathematical Statistics Lecture		
								Multivariate Statistics Lecture,		
	Data Analysis II	4	3	2	Compulsory elective	Seminar	Term mark (5)	Multivariate Statistics Practice, Data Analysis I		
	Data Science Lecture	4	4	2	Compulsory elective	Lecture	Exam (5)	Data Science Practice		
				_			(4)	Multivariate Statistics Lecture,		
	Data Science Practice	4	3	2	Compulsory elective	Seminar	Term mark (5)	Multivariate Statistics Practice, Data Analysis I		
	(4th semeste				9 credits are ma	ndatory with courses similar in conte	nt)			
	Social Science Research	1,2,3,4	4	2	Compulsory	Lecture	Exam (5)			
	Qualitative Methods	2,3	3	2	Compulsory elective	Lecture	Exam (5)			
		_,,,		Ī	Compulsory					
	Network Analysis	3	3	2	elective	Seminar	Term mark (5)	Mathematical Statistics Lecture		
	Official Statistics and Data in Public	launched every two years								
	Administration	1,2,3,4	2		Compulsory	Lecture	Exam (5)			
	ELECTIVE DIFFERENTIATED SKILL	froi	n this unit 1	for the max	imum of 120 cr			s are necessary		
	A certificate of completion of the follow		•				<u> </u>	ume module.		
	The companion of the follows				rch module		Saradii tile sa			
					Compulsory					
SST139	Biostatistics	3,4	3	2	elective	Seminar	Term mark (5)			
	W. 1.	launched every			Compulsory					
	Meta-analysis	2,4	E 3		elective	Seminar	Term mark (5)			
	T		Econo	mic resear	rch module	ı	1			
	Econometrics	3	3	,	Compulsory elective	Lecture	Exam (5)			
SST-KGEM 406		,					(5)			
SST-KGEMA06					Compilisory					
SST-KGEMA06 SSTA-AM-1	Public Policy Impact Assesment	3,4	3	2	Compulsory elective	Seminar	Term mark (5)			
	Public Policy Impact Assesment Public Policy Analysis	1,2,3,4	3	2		Seminar Lecture	Term mark (5) Exam (5)			

r		1	1		1	1					
					Compulsory						
ESST140	Social Media Analytics	3; 4	3	2	elective	Seminar	Term mark (5)				
					Compulsory						
ESST145	Understanding Digital Societies	1,2,3,4	3	2	elective	Seminar	Term mark (5)				
					Compulsory						
	Natural Language Processing	4	3	2	elective	Seminar	Term mark (5)	Introduction to Python			
			Soc	ial researc	n module						
					Compulsory						
ESST146	Social Network Analysis	3,4	3	2	elective	Seminar	Term mark (5)	Network analysis			
L331140	Social Network Analysis	3,4	3		CICCLIVE	Schillar	Term mark (3)	Network analysis			
					Compulsory						
ESST147	Applied Social Research	3,4	3	2	elective	Seminar	Term mark (5)				
Business research module											
					Compulsory						
ESSTA-UK1	Data Visualization	3,4	4	2	elective	Seminar	Term mark (5)	Introduction to Python			
					Compulsory						
ESST136	Business Analytics	2,3,4	3	2	elective	Lecture	Exam (5)				
FINAL COURSES >> 16 credits are mandatory											
	Internship	3,4	8		Compulsory	Seminar	Term mark (3)				
	Thesis Consultation	١.,		(240 hours	G 1		m 1 (2)				
	Tiesis Consultation	4	8	per semester)	Compulsory	Seminar	Term mark (3)				
FREE ELECTIVE COURSES >> 6 credits are mandatory											
	Fundamentals of Research Methodology	1	8	2	Free elective	Seminar	Term mark (5)				
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^{*} the prerequisite course must be completed in a previous semester

* the course and its prerequisite can be taken in the same semester

* the course and its prerequisite must be taken in the same semester