Focus: Structural Materials and Processing

			FII	RST YEA	R				
First Sen	nester		SU	ECTS	Second	Semester		SU	EC
IF	100	Computational Approaches to Problem Solvi	3	5	AL	102	Academic Literacies	3	
MATH	101	Calculus I	3	6	MATH	102	Calculus II	3	
NS	101	Science of Nature I	4	6	NS	102	Science of Nature II	4	
SPS	101	Humanity and Society I	3	6	SPS	102	Humanity and Society II	3	
TLL	101	Turkish Language and Literature I	2	3	TLL	102	Turkish Language and Literature II	2	
HIST	191	Principles of Atatürk and the History of the T	2	3	HIST	192	Principles of Atatürk and the History of the Tur	2	
CIP	101	Civic Involvement Projects I	0	1		-/-		_	
		Total Credit	17	30			Total Credit	17	2
				OND YEA		_			
Third Se			SU	ECTS		Semester	-100	SU	ECI
PROJ	201	Undergraduate Project Course	1	1	MATH	202	Differential Equations	3	
ENS	205	Introduction to Materials Science	3	6	MAT	204	Electrical, Optical and Magnetic Proper	3	
ENS	202	Thermodynamics	3	6	NS	218	Fundamentals of Nanoscience	3	
MATH		Linear Algebra / Introduction to Probability	3	6	ENS	209	Introduction to Computer Aided Drafting and S	3	
ENS	204	Mechanics	3	6	MAT	206	Kinetics of Materials	3	
	Elective		3/4	6/7					
		Total Credit	16/17	31/32			Total Credit	15	3
_	_		тн	IRD YEA	D	_		-	-
Fifth Sen	nester		SU		Sixth Se	emester		SU	ECI
MAT	312	Materials Characterization	4		HUM	20X	Major Works	3	
MAT	314	Mechanical Properties of Materials	3		MAT	306	Computational Techniques for Materials at the	3	
MATH		Linear Algebra / Introduction to Probability	3	6	MAT	307	Composite Materials	3	
MAT	309	Transport Phenomena in Materials P	3	6		Elective	Composite Materials	3/4	6,
MAT	305	Polymer Engineering I	3	5		Elective		3/4	6,
WIAI	303	Tolymer Engineering 1	3	э		Elective		3/4	0,
		Total Credit	16	29			Total Credit	15/17	28/3
PROJ	395	Internship Project	0	5					
				RTH YE					
	Semester		SU		Eight So			SU	EC.
SPS	303	Law and Ethics	3	5	ENS	492	Graduation Project (Implementation)	3	
ENS	491	Graduation Project (Design)	1	2	MAT	406	Nanoengineered Systems Fabrication	3	
MAT	408	Introduction to Ceramics	3	5		Elective		3	5
ME	301	Mechanical Systems	3	6		Elective		3/4	6
	Elective		3	5/6		Elective		3/4	6
	Elective		3/4	6/7					
		Total Credit	16/17	28/31			Total Credit	15/17	0=/

University Courses Shown in Green Required Courses shown in Bold Must take track courses in red bold

Recommended electives:

Recommended electives.						
IE	309	Manufacturing Processes				
IE	402	Integrated Manufacturing Sys.				
IE	416	Additive Manufacturing				
MAT	402	Polymer Engineering II				
ME	302	Mechanical Systems II				
ME	303	Control System Design				
ME	415	Comp. Analysis & Simulation				

(at least two to complete track)