Semester I  nic English and Effective Communication ction to Engineering ction to Machine Design  s I  I Chemistry  Semester III  bodynamics als Science ction to Manufacturing Systems	Click Prerequisites		Tut 0 0 0 2 1 1 1	Aca	demic	Year: 2024-2	to see the syllabus.	Prerequisites  MATH101  MATH101	Lec	Tut 2 2 2 2	<b>Lab</b> 0 0	ECTS 3				
ic English and Effective Communication ction to Engineering ction to Machine Design s I I Chemistry  Semester III  odynamics als Science	Prerequisites  Seme	2 3 2 3 3 3 3	0 0 0 2 1 1 1	Lab 0 0 1 0 2	ECTS 6 3 3 6	Code ENS207-3 ENS209-3 ENS213 / CS103	Title Engineering Graphics Statics Programming for Engineers / Introduction to Programming	Prerequisites  MATH101	1 3	2	0	3				
ic English and Effective Communication ction to Engineering ction to Machine Design s I I Chemistry  Semester III  odynamics als Science	Prerequisites  Seme	2 3 2 3 3 3 3	0 0 0 2 1 1 1	1 0 0 2	6 3 3	Code ENS207-3 ENS209-3 ENS213 / CS103	Title Engineering Graphics Statics Programming for Engineers / Introduction to Programming	Prerequisites  MATH101	1 3	2	0	3				
ic English and Effective Communication ction to Engineering ction to Machine Design s I I Chemistry  Semester III  odynamics als Science	Semo	2 3 2 3 3 3	0 0 0 2 1 1	0 0 1 0 2	6 3 3 6	ENS207-3 ENS209-3 ENS213 / CS103	Title Engineering Graphics Statics Programming for Engineers / Introduction to Programming	Prerequisites  MATH101	1 3	2	0	3				
ction to Engineering ction to Machine Design s I I Chemistry Semester III odynamics als Science	Semo	2 3 2 3 3 3	0 0 0 2 1 1	0 0 1 0 2	6 3 3 6	ENS207-3 ENS209-3 ENS213 / CS103	Engineering Graphics Statics Programming for Engineers / Introduction to Programming	MATH101	1 3	2	0	3				
ction to Engineering ction to Machine Design s I I Chemistry Semester III odynamics als Science	Prerequisites	3 2 3 3 3	0 0 2 1 1	0 1 0 2	3 3 6	ENS209-3 ENS213 / CS103	Statics Programming for Engineers / Introduction to Programming		3	2		-				
s I I Chemistry Semester III odynamics als Science	Prerequisites	2 3 3 3	0 2 1	0 2	3	ENS213 / CS103	Programming for Engineers / Introduction to Programming				0	2				
Semester III  bdynamics als Science	Prerequisites	3 3 3	2 1 1	0 2	6	CS103	Introduction to Programming	MATU101	3	2		3				
Semester III  odynamics als Science	Prerequisites	3	1	2		MATH102	Calculus II	MATH101			0	6				
Semester III  odynamics als Science	Prerequisites	3	1		6		Culculus II	INIATHIOI	3	2	0	6				
Semester III  odynamics als Science	Prerequisites			1		MATH201	Linear Algebra	MATH101	3	2	0	6				
odynamics als Science	Prerequisites	ester T	otal =		6	NS122	Physics II	NS102	3	1	2	6				
odynamics als Science	-				30			Se	mester '	Total =		30				
als Science	-		Semester III					Semester IV								
als Science	NS102	Lec	Tut	Lab	ECTS	Code	Title	Prerequisites	Lec	Tut	Lab	ECTS				
		3	2	0	6	ENS203	Electrical Circuits I	NS122	3	2	0	6				
ction to Manufacturing Systems	NS104	3	0	1	3	ENS204	Thermodynamics II	ENS202	3	2	0	6				
ction to inidifuldcturing systems	ENS103	3	0	2	3	MATH205	Numerical Analysis	MATH202	3	2	0	6				
ntial Equations	MATH101	3	2	0	6	ME206	Engineering Materials	ENS205	3	0	0	3				
ction to Probability and Statistics	MATH101	3	2	0	6	ME211	Strength of Materials II	ME210-3	3	2	0	3				
ics	NS102	3	2	0	3	ME304	Fluid Mechanics	MATH202	3	2	0	6				
h of Materials I	ENS209	3	2	0	3											
	Semo	ester T	otal =		30			Se	mester '	Fotal =		30				
Semester V							Seme	ster VI								
	Prerequisites	Lec	Tut	Lab	ECTS	Code	Title	Prerequisites	Lec	Tut	Lab	ECTS				
nd Mass Transfer	MATH202	3	2	0	6	EE305	Instrumentation and Measurements	ENS203	3	0	2	6				
e Elements	ME210	3	2	0	6	ELIT200	Critical Reading and Writing		2	1	0	6				
Language Elective I See Table 1					3	ENS206	System Modeling	MATH202	3	2	0	6				
m Elective I See Table 2	Junior Standing				6	ENS309	Ethics in Engineering and Natural Sciences		3	1	0	6				
n Elective II See Table 2	Junior Standing				6	NS112	Understanding Science and Technology		2	0	0	3				
sity Elective See Table 1					3	xxx	Foreign Language Elective II See Table	le 1				3				
	Semo	ester T	otal =		30			Se	mester	Total =		30				
Semester VII							Semes	ter VIII								
	Prerequisites	Lec	Tut	Lab	ECTS	Code	Title	Prerequisites	Lec	Tut	Lab	ECTS				
System Design	ENS206	3	2	0	6	ENS490	Graduation Project	Last Semester	0	4	0	6				
lacement / Internship	Junior Standing	0	14	0	6	xxx	Program Elective V See Tab	ole 2 Senior Standing				6				
m Elective III See Table 2	Junior Standing				6	xxx	Program Elective VI See Tab	ole 2 Senior Standing				6				
m Elective IV See Table 2	Junior Standing				6	xxx	Program Elective VII See Tab	le 2 Senior Standing				6				
ective I					6	xxx	Free Elective II					6				
	Semo	ester T	otal =		30			Se	mester <sup>·</sup>	Total =		30				
						No. of Cou	No. of Courses									
					240	Average EC	Average ECTS Credit Load Per Semester									
ired for Graduation											Elective Ratio 2					
Sity lac	Semester VII  Semester VII  ystem Design cement / Internship Elective III See Table 2 Elective IV See Table 2 tive I	Semester VII  Semester VII  Prerequisites  ystem Design  ENS206  cement / Internship  Elective III  See Table 2  Junior Standing  Elective IV  See Table 2  Junior Standing  Sement Standing  Junior Standing  Junior Standing	See Table 1  Semester VII  Prerequisites Lec ystem Design ENS206 3 cement / Internship Junior Standing 0 Elective III See Table 2 Junior Standing Elective IV See Table 2 Junior Standing Usine I	Semester Total =   Semester Total =   Semester Total =   Semester VII	See Table 1   Semester Total =	See Table 1   3   3   3   3   3   3   3   3   3	See Table 1   30   30   30   30   30   30   30	Semester Total =   300   Semester VII   See Table 2   See Table 2   Junior Standing   See Table 2   Junior Standing   See Table 2   Junior Standing   See Table 2   Semester Total =   300   Semester VII   See Table 2   See Table 2   Junior Standing   See Table 2   Se	Semester Total =   30   Semester VII   See Table 1   See Table 2   Semister VII   See Table 2   Junior Standing   See Table 2   Semister Standing	Semester Total =   30   Semester VII   See Table 1   See Table 1   Seemester VII   See VII   See VII   See VII   See VII   VII	Semester Total =   Semester To	Semester Total =   Semester To				

## IMPORTANT NOTES

7 available Program elective courses are taken from junior, senior, or graduate level courses in ME, as seen in Table 2. Three program elective courses can be chosen from other junior or senior level courses offered in FENS with the consent of the Academic Advisor.

Junior standing means the student has successfully completed at least 105 ECTS units in the program.

Senior standing means the student has successfully completed at least 165 ECTS units in the program.

University Elective can be taken from Table 1: University Elective Courses List.

2 Language elective courses are taken from the list of language courses provided (cannot be the student's mother tongue).

2 Free elective courses are taken from any faculty or program.

Work placement/Internship is typically practiced in summer for a period of at least 25 work days, totalling at least 150 hours.

This curriculum is being implemented for the new freshman students who entered the freshman class in the 2022-2023 academic year or after.

The course ENS309 has replaced LAW109 (sixth semester) since AY 2024-2025.

	TABLE 1: University Elective (	Courses			
Code	Title		Т	P	ECTS
ARCH107	Understanding Art and Architecture		2	0	3
BIO100	Introduction to Bioengineering		3	0	3
CS100	Computer Skills		0	2	3
CULT101	Understanding Cultural Encounters		2	0	3
ECON105	Understanding Business		2	0	3
ECON107	Python		1	1	3
ECON108	Matlab		1	1	3
HUM100	Social Responsibility and Sustainable Development		2	0	3
IBF105	Financial Literacy		2	0	3
IR100	Understanding the Contemporary World through Curr		2	0	3
MAN105	Corporate Social Responsibility		2	0	3
NS111	Understanding Nature and Knowledge		2	0	3
SPS140	Understanding Religion		2	0	3
	Foreign Language Elective I (&)		0	2	3
	Foreign Language Elective II (&)		0	2	3
(&) Schola	rship students will take either Spoken Turkish I and II or	Spoken Bosnian I and II.			

TABLE 2: Program Elective Courses													
Code	Title	Prerequisites	т	Р	ECTS	Code	Title	Prerequisites	Т	Р	ECTS		
ARCH408-6	Building Physics		1	2	6	MATH306	Statistical Modeling	MATH203	3	2	6		
CS304	Computer Architecture	CS105	3	2	6	ME301	Engineering Project I	Junior Standing	3	0	6		
EE201	Analog Electronics I	ENS203	3	3	6	ME302	Engineering Project II	Junior Standing	3	0	6		
EE202	Electrical Circuits II	ENS203	3	3	6	ME313	Mechanical Vibrations	Junior Standing	3	2	6		
EE221	Object Oriented Programming	ENS213 or CS103	3	2	6	ME401	Engineering Design I	Junior Standing	3	2	6		
EE325	Embedded Systems	ENS213 or CS103	3	2	6	ME402	Engineering Design II	Junior Standing	3	2	6		
ENS201	Electromagnetism I	MATH102	3	0	6	ME410	Unmanned Aerial Vehicles	Junior Standing			6		
IE301	Production Planning I	MATH203	3	2	6	ME411	Renewable Energy Technology	Junior Standing	3	0	6		
IE303	Operations Research I	MATH201	3	2	6	ME412	Introduction to Computational Fluid Dynamics	Senior Standing	3	0	6		
IE305	Work Analysis and Design	Junior Standing	3	2	6	ME414	Energy Conversion Technology	Senior Standing	3	0	6		
IE306	Simulation	MATH203	3	2	6	ME415	Computational methods	Senior Standing	3	2	6		
IE307	Quality and Reliability Engineering	Junior Standing	3	2	6	ME416	Turbomachinery	Senior Standing	3	0	6		
IE309	Ergonomics	Junior Standing	2	2	6	ME430	Hydraulics and Pneumatics	Senior Standing	3	2	6		
IE318	Engineering Economics	Junior Standing	2	2	6	ME432	HVAC	Senior Standing	3	2	6		
IE425	Computer Aided Design And Manufacturing	Senior Standing	3	2	6	ME436	Plumbing System and Design	Senior Standing	3	2	6		
IE408	Project Management	Junior Standing	2	2	6	Abbreviati	Abbreviations: T (Theory), P (Practice), ECTS credit						
									pg. 2/				

Ver.: 0/24

Last update: May 27, 2024

Senate Decision: IUS-SENAT-11-1600/2024; May 27, 2024