

**Samsun University Engineering Faculty Software Engineering Department Curriculum**

CODE	1st Term	T	A	C	A	CODE	2nd Term	T	A	C	A	
OFIZ101	Physics I	3	0	3	4	OFIZ102	Physics II	3	0	3	4	
OMAT101	Mathematics I	3	2	4	5	OMAT102	Mathematics II	3	2	4	5	
TD101	Turkish Language I	2	0	2	2	TD102	Turkish Language II	2	0	2	2	
YD101	Foreign Language I	2	0	2	2	YD102	Foreign Language II	2	0	2	2	
AT101	Atatürk's Principles and History of Revolution I	2	0	2	2	AT102	Atatürk's Principles and History of Revolution II	2	0	2	2	
MYAZ101	Introduction to Computer Sciences	2	0	2	5	MYAZ104	Introduction to Programming II	2	2	3	6	
MYAZ103	Introduction to Programming I	2	2	3	6	MYAZ106	Computer Architecture and Organization	3	0	3	7	
MYAZ105	Introduction to Software Engineering	2	0	2	2	GİR102	Entrepreneurship	2	0	2	2	
MYAZ107	Algorithm Design	2	0	2	2							
	<b>Total</b>	<b>20</b>	<b>4</b>	<b>22</b>	<b>30</b>			<b>Total</b>	<b>19</b>	<b>4</b>	<b>21</b>	<b>30</b>

CODE	3rd Term	T	A	C	A	CODE	4th Term	T	A	C	A	
MYAZ201	Software Requirement and Modeling	2	2	3	5	MYAZ214	Software Design and Architecture	2	2	3	5	
MYAZ203	Object Oriented Programming Lab.	0	2	1	4	OMAT204	Differential Equations	4	0	4	6	
OMAT203	Linear Algebra	3	0	3	4	MYAZ204	Data Structures and Algorithms	2	0	2	5	
MYAZ205	Object-based Programming	3	0	3	5	MYAZ206	Data Structures and Algorithms Lab.	0	2	1	4	
MYAZ207	Logic Circuits	3	2	4	7	MYAZ208	Probability and Statistics	2	0	2	3	
OBDE201	The Nature of Science and Critical Thinking	2	0	2	2	OMAT212	Discrete Mathematics	3	0	3	4	
OYDİ201	Academic English I	2	0	2	3	OYDİ202	Academic English I	2	0	2	3	
	University Joint Elective*					STJ100	Internship I	0	0	0	8	
							University Joint Elective*					
	<b>Total</b>	<b>15</b>	<b>6</b>	<b>18</b>	<b>30</b>			<b>Total</b>	<b>15</b>	<b>4</b>	<b>17</b>	<b>38</b>

\*Courses to be taken from the university common elective course pool are shown as information in the transcript according to the 10th clause of the 10th article of the Samsun University Undergraduate Education Regulation; however, it is not included in the credit load and GANO calculation. These courses depend on the student's wishes.

CODE	5th term	T	A	C	A	CODE	6th term	T	A	C	A	
MYAZ303	Software Implementation and Testing	3	2	4	5	MYAZ302	Software Quality Assurance	2	1	3	5	
MYAZ305	Computer Networks and Data Communication	2	2	3	4	MYAZ310	Microprocessors and Programming	1	2	2	3	
OMAT301	Numerical Methods	3	0	3	4	MYAZ306	Mobile Application Development	2	2	3	4	
MYAZ309	Database and Management Systems Lab.	0	2	1	3	MYAZ308	Operating Systems	3	0	3	5	
MYAZ311	Database and Management Systems	2	0	2	6	MYAZ3XX	Vocational Elective I	3	0	3	5	
MYAZ3XX	Vocational Elective Course I	3	0	3	5	MYAZ3XX	Vocational Elective II	3	0	3	5	
OYDİ301	Academic English III	2	0	2	3	OYDİ302	Academic English IV	2	0	2	3	
	<b>Total</b>	<b>15</b>	<b>6</b>	<b>18</b>	<b>30</b>	STJ200	Internship II	0	0	0	10	
								<b>Total</b>	<b>16</b>	<b>5</b>	<b>19</b>	<b>40</b>

CODE	7th Term	T	A	C	A	CODE	8th Term	T	A	C	A	
MYAZ4XX	Vocational Elective Course I	3	0	3	6	MYAZ402	Software Project Management	2	2	3	6	
MYAZ4XX	Vocational Elective II	3	0	3	6	MYAZ404	Final Project	0	4	2	6	
MYAZ4XX	Vocational Elective Course III	3	0	3	6	MYAZ4XX	Vocational Elective Course I	3	0	3	6	
MYAZ4XX	Vocational Elective Course IV	3	0	3	6	MYAZ4XX	Vocational Elective II	3	0	3	6	
MYAZ4XX	Vocational Elective V	3	0	3	6	MYAZ4XX	Vocational Elective Course III	3	0	3	6	
	<b>Total</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>30</b>			<b>Total</b>	<b>11</b>	<b>6</b>	<b>14</b>	<b>30</b>
	<b>OR</b>											
MYAZ 401	Professional Experience Program	15	0	15	30							
	<b>Total</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>30</b>							

**Elective Courses**

CODE	5th Term Vocational Electives	T	A	C	A	CODE	6th Term Vocational Electives	T	A	C	A
MYAZ353	System Modeling and Simulation	3	0	3	5	MYAZ350	Algorithm Analysis	3	0	3	5
MYAZ351	Digital Image Processing	3	0	3	5	MYAZ352	Rapid Application Development	3	0	3	5
MYAZ355	Optimization Techniques	3	0	3	5	MYAZ354	Embedded Systems	3	0	3	5
MYAZ357	Operations Research in Engineering	3	0	3	5	MYAZ356	Wireless Networks	3	0	3	5
MYAZ359	Electronic Trade	3	0	3	5	MYAZ358	Linux System Administration and Shell Programming	3	0	3	5
MYAZ361	IT Ethics and Law	3	0	3	5	MYAZ360	Engineering Economics	3	0	3	5
MYAZ363	Cryptography	3	0	3	5	MYAZ362	Parallel Programming	3	0	3	5
MYAZ365	Python Programming	3	0	3	5	MYAZ364	Ruby Programming	3	0	3	5
MYAZ367	Human Computer Interaction	3	0	3	5	MYAZ366	Automata Theory and Formal Languages	3	0	3	5
						MYAZ368	Computer Graphics	3	0	3	5
						MYAZ370	Java Programming	3	0	3	5
						MYAZ372	Artificial Intelligence	3	0	3	5

CODE	7th Term Vocational Electives	T	A	C	A	CODE	8th Term Vocational Electives	T	A	C	A
MYAZ403	Haskell Programming	3	0	3	6	MYAZ450	Deep Neural Networks	3	0	3	6
MYAZ405	Multimedia Software Development	3	0	3	6	MYAZ452	Game Design and Programming	3	0	3	6
MYAZ407	Machine Learning	3	0	3	6	MYAZ454	Cloud Computing	3	0	3	6
MYAZ409	Internet of Objects	3	0	3	6	MYAZ456	Robot Programming	3	0	3	6
MYAZ411	Cyber Security	3	0	3	6	MYAZ458	Virtual Reality	3	0	3	6
MYAZ413	Artificial Neural Networks	3	0	3	6	MYAZ460	Natural Language Processing	3	0	3	6
MYAZ415	Fuzzy Logic	3	0	3	6	MYAZ462	Social Network Analysis	3	0	3	6
MYAZ417	Compiler Design	3	0	3	6	MYAZ464	Data Mining and Knowledge Discovery	3	0	3	6
MYAZ419	Quantum Computing	3	0	3	6	MYAZ466	Quantum Programming	3	0	3	6
MYAZ421	Biometric Recognition Systems	3	0	3	6	MYAZ468	Big Data	3	0	3	6
						MYAZ470	Internet and Web Programming	3	0	3	6