BURSA ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLİED SCİENCES
2021-2022 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF	Computer Engineering
DEPARTMENT / PROGRAM	Computer Engineering / Master's Degree Program

COURSE STAGE

I. TERM / FALL

Code	Course Title	Type	T	U	L	Credit	ECTS
BM5191	**Thesis Advisor I**	**Z**	**0**	**1**	**0**		**1**
BM5103	**Algorithms**	**Z**	**3**	**0**	**0**		**6**
BM5181	**Graduate Specialization Course I**	**Z**	**4**	**0**	**0**		**5**
BM5111	Parallel Algorithms	S	3	0	0		6
BM5115	Natural Language Processing	S	3	0	0		6
BM5117	Interconnection and Mobile Applications	S	3	0	0		6
BM5125	Basic Protocols in Computer Networks	S	3	0	0		6
BM5127	Data Compression and Applications	S	3	0	0		6
BM5129	Object Oriented Analysis and Design	S	3	0	0		6
BM5131	Mobile Cloud Computing	S	3	0	0		6
BM5133	Computer Aided Software Engineering Tools	S	3	0	0		6
BM5143	E-Commerce	S	3	0	0		6
BM5113	Computer Vision	S	3	0	0		6
BM5119	Security in Computer Networks	S	3	0	0		6
BM5121	Image Processing Applications	S	3	0	0		6
BM5701	Introduction to Information Access Systems	S	3	0	0		6
BM5123	Introduction to Heuristic Algorithms	S	3	0	0		6
BM5135	Random Processes in Engineering	S	3	0	0		6
BM5137	Advanced Computer Architecture	S	3	0	0		6
						Total Credits	**30**

II. TERM / SPRING

Code	Course Title	Type	T	U	L	Credit	ECTS
BM5000	**Research Techniques and Publication Ethics in Computer Engineering**	**Z**	**2**	**0**	**0**		**2**
BM5192	**Thesis Advisor II**	**Z**	**0**	**1**	**0**		**1**
BM5172	**Seminar(Lesson)**	**Z**	**0**	**2**	**0**		**4**
BM5182	**Graduate Specialization Course II**	**Z**	**4**	**0**	**0**		**5**
BM5110	Introduction to Mobile Robotics	S	3	0	0		6
BM5112	Wireless Network Protocols	S	3	0	0		6
BM5120	Object-oriented parallel programming	S	3	0	0		6
BM5122	Real Time System Design	S	3	0	0		6
BM5124	Computation Theory	S	3	0	0		6
BM5132	Wireless Embedded Systems	S	3	0	0		6
BM5134	Virtual and Augmented Reality Applications	S	3	0	0		6
BM5114	Cryptography	S	3	0	0		6
BM5116	Artificial Intelligence	S	3	0	0		6
BM5130	Bioinformatic Algorithms	S	3	0	0		6
BM5136	Semantic Web	S	3	0	0		6
BM5702	Introduction to Machine Learning	S	3	0	0		6
BM5142	Introduction to Data Mining	S	3	0	0		6
BM5138	Statistical Methods in Natural Language Processing	S	3	0	0		6
BM5140	Multi-sensor Data Fusion	S	3	0	0		6
BM5118	Software Validation And Verification	S	3	0	0		6
BM5126	Reconfigurable Computing	S	3	0	0		6
						Total Credits	**30**

STAGE THESIS

III. TERM / FALL

Code	Course Title	Type	T	U	L	Credit	ECTS
BM5193	**Thesis Advisor III**	Z	0	1	0		5
BM5183	**Graduate Specialization Course III**	Z	4	0	0		25
						Total Credits	**30**

IV. TERM / SPRING

Code	Course Title	Type	T	U	L	Credit	ECTS
BM5194	**Thesis Advisor IV**	Z	0	1	0		5
BM5184	**Graduate Specialization Course IV**	Z	4	0	0		25
						Total Credits	**30**

TOTAL CREDITS: - TOTAL ECTS: 120

Not: The student is expected to take a total of 18 credited 3 selective courses every academic term.

The student have the option of choosing **1 (one)** selective course from another department with the endorsement of the supervisor.