

About Program

Attendance

English

Duration

4 Years

SCHOOL OF ENGINEERING AND NATURAL SCIENCES

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Level UndergraduateSCHOOL OF ENGINEERING AND NATURAL SCIENCES ([HTTPS://INT.BAU.EDU.TR/PROGRAMS/?CATEGORY=37](https://int.bau.edu.tr/programs/?category=37))

Location

Besiktas South Campus

Artificial Intelligence Engineering

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The mission of the Artificial Intelligence

Engineering Program is to train Artificial Intelligence Engineers who have professional and universal ethical values that follow and apply the developments in artificial intelligence and information technologies in order to benefit our country and all humanity. To produce new scientific outputs of international importance...

Introduction

About Program

Attendance	English
Duration	4 Years
Level	Undergraduate
Location	Beşiktaş South Campus

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The mission of the Artificial Intelligence Engineering Program is to train Artificial Intelligence Engineers who have professional and universal ethical values that

follow and apply the developments in artificial intelligence and information technologies in order to benefit our country and all humanity. To produce new scientific outputs of international importance and to bring them to the literature. Being a solution partner to the problems of society, state, and industry in artificial intelligence and informatics and contributing to the development of the field. The vision of the Artificial Intelligence Engineering Program is to become one of the leading Artificial Intelligence Engineering departments in our country and in the world in terms of scientific research, projects, and education, whose graduates are sought internationally.

The main purpose of the studies in the field of artificial intelligence is to develop systems that can think, learn and act like a human. Artificial intelligence approaches are the most up-to-date methods for solving important problems in many areas such as computer vision, natural language processing, bioinformatics, cyber security, and robotics. The systems developed for these areas are now being rapidly replaced by existing products in many different sectors, and research shows that this speed will continue to increase.

The fact that the artificial intelligence field contains many sub-research fields and covers a wide range of application areas, has brought with it the need to specialize at the undergraduate level in this field. In line with this need, the Artificial Intelligence Engineering Department was established within the Faculty of Engineering and Natural Sciences of our University as of the 2020-2021 academic year.

The faculty of Engineering and Natural Sciences started its academic life with the establishment of Bahçeşehir University and has 20 years of experience. The Faculty of Engineering and Natural Sciences has a large faculty of staff in Computer Engineering, Software Engineering, Mechatronics Engineering, and Electrical and Electronics Engineering departments, who have been conducting scientific projects on artificial intelligence. In addition, the faculty members carry

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STAFF

Details

out many studies to apply artificial intelligence techniques to real-life problems in different sectors within the scope of R&D projects carried out in cooperation with industry. The establishment of the Artificial Intelligence Engineering Department is aimed to train qualified human resources in the field of artificial intelligence, which is constantly expanding with its qualified academic staff.

Data produced in almost every sector such as technology, energy, telecommunications, automotive, health, education, retail, security, logistics, finance has reached huge amounts and this increase is expected to continue in the coming years. It is among the highest value-added subjects for countries and companies to efficiently process the data obtained through the rapid implementation of concepts and technologies such as the internet of things, cloud computing, and big data analytics in the production and service sectors. Artificial Intelligence Engineering students will be qualified to produce this surplus value with the training they will receive on topics such as machine learning, deep learning, image processing, natural language processing, data analysis, data visualization, computer games, robotics, business intelligence, CO-OP with the branded courses within the scope of the system, they will have the opportunity to meet the leading engineers in the field of artificial intelligence during their education and our graduates will be able to be employed as engineers needed in almost all sectors.

ARTIFICIAL INTELLIGENCE ENGINEERING			
Bachelor	TR-NQF-HE: Level 6	QF-EHEA: First Cycle	EQF-LLL: Level 6

About Program

Attendance Course Structure Diagram with Credits

Duration

1. Semester 4 Years

Level

Undergraduate

Location

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Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
AIN1001	Computer Programming I (Python)	English		2	2	3	5
AIN1003	Freshman Seminar	English		1	0	1	1
ENG1005	Communications Skills and Academic Reporting I	English		2	2	3	4
LAW1001	Child Law and Child Psychology	English		3	2	4	7
MAT2033	Discrete Mathematics	English		3	0	3	6
PHY1001	Physics I	English		3	2	4	7
Total						18	30

2. Semester							
Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
AIN1002	Computer Programming II (C++)	English		2	2	3	6
ENG1004	Communication Skills and Academic Reporting II	English		2	2	3	3
LAW1156	Child Law and Child Psychology	English		0	0	0	1
MAT1052	Calculus II	English		3	2	4	7
PHY1002	Physics II	English		3	2	4	7
SEN2201	Computing Systems	English		3	0	3	6
Total						17	30

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3. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
AIN2001	Principles of Artificial Intelligence	English		3	0	3	6
CMP2003	Data Structures and Algorithms (C++)	English		3	2	4	7
MAT1041	Linear Algebra	English		3	0	3	6
MAT3026	Probability and Statistics	English		3	0	3	6
	GE-Elective					3	5
Total						16	30

4. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
AIN2002	Introduction to Data Science	English		2	2	3	6
AIN2008	Computers and Ethics	English		2	0	2	5
INE2002	Statistics in Engineering	English		3	2	4	7
MAT2008	Introduction to Optimization	English		3	0	3	6
MAT2062	Differential Equations	English		3	0	3	6
Total						15	30

5. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
AIN3001	Machine Learning			3	0	3	7
AIN3003	Database Systems and Cloud Computing			3	2	4	8
CMP3005	Analysis of Algorithms	English		3	0	3	6
HST1001	Atatürk's Principles and History of Turkish Republic I	English		2	0	2	2
TLL1003	Turkish Language and	Turkish		2	0	2	2

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SEARCH

BAU

4 Years

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GE-Elective

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3. Semester

4. Semester

5. Semester

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5/10

	Literature I						
	GE-Elective						
Total						17	30

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Location

English							
6. Semester							
4 Years							
Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
Undergraduate							
AIN3002	Deep Learning			3	0	3	6
CMP3008	Formal Languages and Automata Theory	English		3	0	3	6
CMP3010	Embedded Systems Programming	English		2	2	3	6
ENR0001	Non-Technical Aspects of Engineering	English		2	0	2	4
HST1002	Atatürk's Principles and History of Turkish Republic II	English		2	0	2	2
TLL1004	Turkish Language and Literature II	Turkish		2	0	2	2
	Non-Departmental Elective					3	4
Total						18	30

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7. Semester							
Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
AIN4991	Capstone Project I			1	0	1	1
AIN4993	Summer Training	English		0	0	0	7
	Departmental Elective					3	6
	Departmental Elective					3	6
	GE-Elective					3	5
	GE-Elective					3	5
Total						13	30

8. Semester

Course Code

Course Name

Language

Prerequisites

Theoretical

Practical

Credit

ECTS

AIN4992

Capstone Project II
English

0

4

2

6

Departmental Elective
4 Years

3

6

Departmental Elective
Undergraduate

3

6

Non-Departmental Elective
Beşiktaş South Campus

3

4

Non-Departmental Elective

3

4

2

4

Total

16

30

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- TR marked courses are taught in Turkish.
- EN marked courses are taught in English.
- There TR-EN marked section of courses in both English and Turkish.

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Artificial
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& Genetics

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Engineering

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Last Name*

Email*



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