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SCHOOL OF ENGINEERING AND NATURAL SCIENCES
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Software Engineering

Bahçeşehir University's Software Engineering Department offers double major and lateral branch programs in the fields of computer sciences, information technologies, and software engineering: Software Engineering Undergraduate Program Information Technologies Graduate Program (in conjunction with the Department of Computer Engineering)...

About Program

Attendance	**English**
Duration	**4 Years**
Level	**Undergraduate**

Introduction

Location	Beşiktaş South Campus

Bahçeşehir University's Software Engineering Department offers double major

and lateral branch programs in the fields of computer sciences, information

technologies, and software engineering:

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- Software Engineering Undergraduate Program

- Information Technologies Graduate Program (in conjunction with the Department of Computer Engineering)

- Information Systems Services Graduate Program (in conjunction with the Computer Engineering Department)

- Artificial Intelligence Engineering Undergraduate Program

- Artificial Intelligence Engineering Graduate Program

The Software Engineering Department conducts research studies in the fields of computer science and software engineering. Research focuses on the following areas of study:

- Software and information technology

- Web and game programming

- Data mining

Research in the fields of software and information technology relates to subjects that include databases, database programming, software project management, measurement, and tests. Studies in web and game programming concentrate on improving graphics and animation on computers, the interaction between humans and computers, and designing and improving e-learning and distance learning environments. Data mining research studies include questioning data warehouses and giant databases, segmentation, clusters, and prediction of data using fuzzy logic.

DETAILS **STAFF**

Details

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

Course Structure Diagram with Credits

1. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
ENG1003	Communications Skills and Academic Reporting I	English		2	2	3	4
MAT1051	Calculus I	English		3	2	4	7
MAT2033	Discrete Mathematics	English		3	0	3	6
PHY1001	Physics I	English		3	2	4	7
SEN1001	Introduction to Programming (Java)	English		2	2	3	6
Total						17	30

2. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
CHE1001	General Chemistry I	English		3	2	4	7
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
SEN1002	Object Oriented Programming (Java)	English		2	2	3	5
Total						18	30

3. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
MAT1041	Linear Algebra	English		3	0	3	6
SEN2001	Programming Languages	English		3	0	3	7
SEN2201	Computing Systems	English		3	0	3	6
SEN2211	Data Structures and Algorithms I	English		2	2	3	7
	GE-Elective					3	4
Total						15	30

4. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
SEN2008	Software Security	English		3	0	3	5
SEN2022	Software Engineering Analysis and Design	English		3	0	3	7
SEN2104	Database Management Systems	English		3	2	4	7
SEN2212	Data Structures and Algorithms II	English		2	2	3	7
	GE-Elective					3	4
Total						16	30

5. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
MAT3026	Probability and Statistics	English		3	0	3	6
SEN3003	Software Project Management	English		3	0	3	7
TLL1003	Turkish Language and Literature I	Turkish		2	0	2	2
	Departmental Elective					3	6

						3	5
	Non-Departmental Elective						
	GE-Elective					3	4
Total						17	30

6. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
MAT3012	Numerical Analysis	English		2	2	3	6
SEN3006	Software Architecture	English		2	2	3	7
SEN3304	Human Computer Interaction	English		3	0	3	6
TLL1004	Turkish Language and Literature II	Turkish		2	0	2	2
	Non-Departmental Elective					3	5
	GE-Elective					3	4
Total						17	30

7. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
ENR3001	Non-Technical Aspects of Engineering	English		2	0	2	4
HST1001	Atatürk's Principles and History of Turkish Republic I	English		2	0	2	2
SEN4013	Software Verification and Validation	English		3	0	3	6
SEN4991	Capstone Project I	English		1	0	1	1
SEN4993	Summer Training	English		0	0	0	5
	Departmental Elective					2	4
	Non-Departmental Elective					2	4

						3	4
	GE-Elective						
Total						15	30

8. Semester

Course Code	Course Name	Language	Prerequisites	Theoretical	Practical	Credit	ECTS
HST1002	Atatürk's Principles and History of Turkish Republic II	English		2	0	2	2
SEN4992	Capstone Project II	English		0	4	2	6
	Departmental Elective					3	6
	Departmental Elective					3	6
	Departmental Elective					3	6
	GE-Elective					2	4
Total						15	30

- **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.**

RELATED PROGRAMS

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SCHOOL OF ENGINEERING AND NATURAL SCIENCES

(https://int.bau.edu.tr/programs/software-engineering/)
SCHOOL OF ENGINEERING AND NATURAL SCIENCES

Artificial Intelligence Engineering

Molecular Biology & Genetics

Software Engineering

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