COURSE LIST

HOST UNIVERSITY	**Technical University of Sofia**
SEMESTER IN THE DEGREE PROGRAMME	**All**
CLUSTER PROGRAMME	**All**
SEASON	**All**
TEACHING LANGUAGE	**All**
DOCUMENT CREATED ON	**19/11/2026**

171 course(s) · 716.0 ECTS in total

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
MTC11.4	Adaptative and intelligent wireless sensor network	English	Spring	3.0
MTC06.3	Advanced architectures for wireless communications	English	Fall, Spring	4.0
BCSCe05	Advanced Software Technologies (C#)	English	Fall	4.0
BCSCe08	Agent-Based Technologies	English	Spring	5.0
BTCEe02	Analog and digital devices	English	Fall	7.0
MTC06.2	Antenna systems for next generation communications	English	Fall, Spring	4.0
BTC08	Antennas and radiowave propagation	English	Fall	6.0
BIEe05	Applied Geometry and Engineering Graphics	English	Fall	4.0
BCSCe18	Artificial Intelligence	English	Fall	4.0
MTC11.1	Audio and video systems with artificial intelligence	English	Spring	3.0
MTC14.1	Audio visual applications in smart homes	English	Spring	3.0
BTC51	Audio- and video engineering	English	Spring	6.0
BMEHSe07	Automation of discrete production engineering	English	Spring	5.0
CCEe02	Basic programming languages	English	Spring	6.0
BCSCe24.3	Bioinformatics	English	Spring	4.0
LNG	Bulgarian Language	Български	Spring	4.0
FaBCSCe01	Bulgarian language	English, Български	Spring	3.0
—	Bulgarian Language and Culture	English	Spring	4.0

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
BTC25.4	Business intelligence	English	Fall	2.0
BIEe03	Chemistry	English	Fall	4.0
MTC12.5	Cloud technologies	English	Fall	3.0
—	Communications	English	Fall	?
BIEe41	Computer Aided Design	English	Fall	4.0
BCSCe01	Computer Architectures	English	Fall	4.0
BCSCe12	Computer Graphics	English	Spring	5.0
BIEe58	Computer Integrated Manufacturing I	English	Fall	4.0
CCEe05	Computer systems	English	Spring	5.0
BIEe06	Computing I	English	Fall	4.0
BIEe13	Computing II	English	Spring	3.0
BIEe24	Computing III	English	Fall	4.0
BTC04	Cybersecurity	English	Spring	4.0
MTC05.1	Data analysis in telecommunications	English	Fall, Spring	4.0
CCEe08	Databases	English	Spring	6.0
MTC14.2	Deep neural networks	English	Spring	3.0
BCSCe10	Development of Linux-based software	English	Spring	4.0
BTC51.2	Digital image processing	English	Fall	?
MTC04.4	Digital radio and television broadcasting	English	Fall, Spring	4.0
BTCEe03	Digital signal processing	English	Fall	5.0
MEECOe14	Diploma project (start)	English	Fall	7.0
BCSCe13.1	Discrete structures	English	Spring	4.0
BCSCe24.1	Distributed Systems and Computer Communications	English	Spring	4.0
BIEe25	Economics	English	Fall	3.0
BTCEe06	Elective semester project	English	Fall	2.0
EEAe24	Electrical Engineering	English	Spring	6.0
BIEe23	Electronics II	English	Fall	4.0
BCSCe13.2	Embedded system	English	Spring	4.0
MTC14.4	Embedded wireless systems	English	Spring	3.0
BIEe33	Enterprise Management	English	Spring	4.0

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
MEECOe01	Environmental Quality and Pollution	English	Fall	4.0
BIEe65	Financial Accounting	English	Spring	4.0
BIEe29	Fluid Mechanics	English	Spring	4.0
LNG21	Foreign Language	—	Fall	4.0
LNG22	Foreign Language .	English, Français, Español, Deutsch	Spring	4.0
LNGe11	Foreign Language I	English	Fall	3.0
LNGe12	Foreign Language II	English	Spring	3.0
CCSEe07	Fundamentals of Computer and Communication Networks	English	Spring	5.0
ENGe02	Fundamentals of Engineering Design	English	Fall	6.0
BCSCe02	Fundamentals of Logic Design	English	Fall	5.0
AMN06	Fundamentals of Management	English, Български	Spring	6.0
CCEe07	Fundamentals of networks technologies	English	Spring	?
MEECOe09	Geographic Information Systems	English	Spring	3.0
MTC04.6	Heterogeneous networks	English	Fall, Spring	4.0
BCSCe09	High Performance Computer Systems	English	Spring	5.0
BIEe51	Human Resource Management	English	Spring	4.0
BIEe42	Industrial Manufacturing Systems I	English	Fall	4.0
BIEe46	Industrial Manufacturing Systems II	English	Spring	5.0
CCE21	Informatics	English, Български	Spring	7.0
BCSCe22	Information Security	English	Spring	4.0
BTCEe05	Information transmission theory	English	Fall	4.0
BCSCe26.1	Innovation Management and Entrepreneurship	English	Spring	4.0
BMEHSe08	Intelligent Measurement Systems	English	Spring	5.0
BCSCe25.1	Intelligent Systems	English	Spring	4.0
MTC12.2	Interactive digital systems	English	Spring	3.0
BTC11	internet of things	English	Spring	4.0
MTC04.1	Introduction to artificial intelligence	—	—	4.0

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BIEe61.2	Introduction to Business Intelligence	English	Fall	4.0
CCEe01	Introduction to programming	English	Fall	7.0
BCSCe43	Java Technologies	English	Spring	4.0
AMN05	Macroeconomics	—	Spring	5.0
BCSCe26.2	Management of IT projects	English	Spring	4.0
BIEe50	Manufacturing Design I	English	Spring	4.0
BIEe57	Manufacturing Design II	English	Fall	4.0
BIEe64	Manufacturing Strategies	English	Spring	4.0
ENGe01	Material Science	English	Fall	7.0
ENGe05	Materials Science	English	Spring	6.0
BIEe16	Materials Science - IE	English	Spring	3.0
BIEe40	Materials Technology	English	Fall	4.0
MAT14	Mathematics	—	Fall	7.0
MATe13	Mathematics I	English	Fall	6.0
BIEe01	Mathematics I - IE	English	Fall	5.0
MATe22	Mathematics II	English, Български	Spring	6.0
BIEe10	Mathematics II - IE	English	Spring	4.0
MATe33	Mathematics III	English	Fall	6.0
BIEe20	Mathematics III - IE	English	Fall	4.0
BIEe38	Mathematics IV - IE	English	Fall	4.0
BIEe26	Measurements and Instrumentation I	English	Fall	4.0
BIEe32	Measurements and Instrumentation II	English	Spring	4.0
EEAe26	Measurements in communications and computer engineering	English	Spring	5.0
EEAe26	Measurements in information and communication technologies	English	Spring	4.0
BIEe44	Measurements Systems	English	Fall	4.0
MECe24	Mechanical Systems	English	Fall	4.0
BIEe04	Mechanics I - IE	English	Fall	4.0
BIEe12	Mechanics II - IE	English	Spring	3.0

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MECe01	Mechanics Part I	English	Spring	7.0
MECe02	Mechanics Part II	English	Fall	7.0
BCSCe19	Metaheuristics	English	Fall	4.0
AMN03	Microeconomic	—	—	7.0
BTC17.1	Microwave engineering	English	Spring	7.0
MTC01	Mobile and wireless communications	—	Fall, Spring	4.0
—	Mobile network and services	English	Spring	4.0
BTC09	Modeling of telecommunications processes and systems	English	Fall	4.0
MEECOe06	Modeling the Spread of Pollutants	English	Fall	4.0
MTC11.2	Multidimensionnal signal processing	English	Spring	3.0
MTC13.2	Multimedia retrieval	English	Spring	3.0
MTC03	Multimedia technologies and applications	—	Fall, Spring	4.0
BCSCe23	Multimodal Systems	English	Spring	4.0
MTC13.5	Network design	English	Spring	3.0
MTC12.6	Network monitoring system for IP networks	English	Spring	3.0
MEECOe02	Noise Pollution – Vibrations, Infrared and Ultrasound	English	Fall	4.0
MEECOe05	Non-ionizing Radiation and Industrial Electromagnetic Pollution	English	Fall	4.0
BCSCe04	Operating Systems	English	Fall	5.0
BIEe34	Operations Research	English	Spring	4.0
MTC13.3	Optical wireless communications	English	Spring	3.0
BCSCe15	Parallel Programming	English	Fall	5.0
BISAIe30	Pattern Recognition	English	Spring	4.0
SPR01	Physical Education and Sport	English, Български	Fall	1.0
PHYe03	Physics	English	Fall	6.0
BIEe02	Physics I	English	Fall	5.0
BIEe11	Physics II	English	Spring	4.0
CCEe03	Platform-independent programming languages	English	Fall	7.0

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
PRS01	Practicum	English, Български	Fall, Spring	2.0
PRCe01	Practicum in Communication and Computer Engineering	English	Spring	2.0
PRCe02	Practicum in communications and computer engineering	English	Spring	?
BIEe30	Principles of Mechanical Engineering Design	English	Spring	4.0
BIEe36	Principles of Mechanical Engineering Design - project	English	Spring	1.0
BIEe43	Production Operation Management I	English	Fall	4.0
BIEe49	Production Operation Management II	English	Spring	4.0
BCSCe20.1	Programmable Logic Systems	English	Fall	5.0
BCSCe11	Programming Frameworks	English	Spring	5.0
BCSCe051	Programming Languages	English	Fall	5.0
BCSCe25.2	Programming of Embedded Systems	English	Spring	4.0
BCSCe16	Programming Technologies for Secure Code	English	Fall	5.0
BTC25.1	Project management in ICT	English	Fall	2.0
BIEe54	Quality Control	English	Fall	5.0
BTC12	Radiocommunications	English	Spring	5.0
MEECOe04	Renewable Energy Sources	English	Fall	4.0
BTC13	Satellite communications	English	Fall	4.0
MTC04.5	Secure architectures and protocols for network communications	English	Fall, Spring	4.0
EEAe25	Semiconductor devices	English	Fall	6.0
BMEHSe09	Sensors and Actuators	English	Spring	5.0
CCEe06	Signals and systems	English	Spring	5.0
MTC13.4	Software defined and cognitive wireless technologies	English	Spring	3.0
BCSCe06	Software Design and Software Testing	English	Fall	5.0
BCSCe20.2	Software patterns	English	Fall	5.0
SPRe03	Sport	English	Fall	1.0
MTC14.5	Statistical methods for machine learning	English	Spring	3.0

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BIEe21	Strength of Materials - IE	English	Fall	5.0
MEECOe03	Sustainable Development and Environmental Legislation	English	Fall	3.0
CCEe04	Synthesis and analysis of algorithms	English	Fall	6.0
BIEe56	Systems Modelling and Simulation	English	Fall	4.0
BTCEe04	Telecommunication networks	English	Fall	5.0
FaBCSCe02	The Global society and technologies	English	Spring	3.0
MECe06	Theory of Mechanisms and Machines	English	Spring	6.0
BIEe47	Thermodynamics and Heat	English	Spring	5.0
ENR01	Thermodynamics and Heat Transfer	English	Spring	5.0
MTC11.7	User centric access network	English	Spring	3.0
MTC12.1	Virtual and augmented reality technologies	English	Spring	3.0
BCSCe25.3	Virtual Reality	English	Spring	4.0
BCSCe17	Web Programming Fundamentals	English	Fall	5.0
MTC06.4	Wireless access in resource constrained networks	English	Fall, Spring	4.0
MTC12.4	Wireless positionning and location	English	Spring	3.0
	Total			**716.0**