



## FACULTY OF ELECTRICAL ENGINEERING, ELECTRONIC AND AUTOMATION

**Dear Students, Dear Partners,**

**This is a list of courses from the curricula in the Faculty of EEEA,  
from which one can select courses *offered face to face* in a foreign language  
in academic year 2023/2024!**

**The summary of these courses  
can be found in the ECTS package of the Faculty!**

### COURSES IN ENGLISH

| Code                  | Subjects   | ECTS credits | Teacher  | 1 <sup>st</sup> sem | 2 <sup>nd</sup> sem |
|-----------------------|--|--------------|--|---------------------|---------------------|
| <b>BACHELOR LEVEL</b> |  |              |  |                     |                     |
| S00415                | Mathematics 1                                      | 7            | Assoc. Prof. Yuliya Chaparova, PhD                                   | YES                 | YES                 |
| S02793                | Mathematics 2                                      | 5            | Assoc. Prof. Yuliya Chaparova, PhD                                   | YES                 | YES                 |
| S03065                | Mathematics 3                                      | 4            | Assoc. Prof. Iliyana Raeva, PhD                                      | YES                 | YES                 |
| S00419                | English Language 1                                 | 4            | Assist. Prof. Elitsa Georgieva                                       | YES                 | YES                 |
| S00427                | English Language 2                                 | 4            | Assist. Prof. Elitsa Georgieva                                       | YES                 | YES                 |
| S03066                | Technical English                                  | 5            | Assist. Prof. Pencho Kamburov  | YES                 | YES                 |
| S03159                | Marketing  | 4            | Prof. Diana Antonova, PhD  | YES                 | YES                 |
| S03160                | International Economics                            | 4            | Assist. Prof. Alexander Kosuliev, PhD                                | YES                 | YES                 |
| S03105                | Economics  | 4            | Assist. Prof. Elizar Stanev, PhD                                     | YES                 | YES                 |
| S03161                | Company Management                                 | 4            | Assist. Prof. Svilen Kunev, PhD                                      | YES                 | YES                 |
| SB11273               | Company Culture and Business Ethics                | 3            | Prof. Yuliana Popova, PhD  | YES                 | YES                 |
| SB11271               | Business Communication and Public Relations        | 3            | Assist. Prof. Nataliya Venelinova, PhD                               | YES                 | YES                 |
| S01347                | Management of regional and cross-border projects   | 3            | Assist. Prof. Daniela Yordanova, PhD                                 | YES                 | YES                 |
| SB14343               | Development of the Projects                        | 5            | Assist. Prof. Nataliya Venelinova, PhD                               | YES                 | YES                 |
| SB11272               | Business Negotiations and Correspondence           | 3            | Assist. Prof. Hristina Sokolova, PhD                                 | YES                 | YES                 |
| SB15447               | Programming  | 9            | Prof. Tzvetomir Vassilev, PhD  | YES                 | YES                 |
| S00133                | Electrical Safety                                  | 2            | Assoc. Prof. Ivaylo Stoyanov, PhD                                    | YES                 | YES                 |
| S00411                | Electrical Material Science                        | 5            | Assoc. Prof. Ivaylo Stoyanov, PhD<br>Prof. Nikola Mihailov, PhD, DHC | YES<br>NO           | NO<br>YES           |
| SB10647               | Renewable Energy Resources and Energy Technologies | 8            | Prof. Nikola Mihailov, PhD, DHC                                      | YES                 | YES                 |

|         |   |   |   |     |     |
|---------|---|---|---|-----|-----|
| SB10652 | Management of Electrical Engineering                          | 4 | Prof. Nikola Mihailov, PhD, DHC   | YES | NO  |
| S03243  | Lighting and installation equipment                           | 7 | Assoc. Prof. Orlin Petrov, PhD  | YES | YES |
| S00775  | Short Circuits  | 5 | Assoc. Prof. Ognyan Dinolov, PhD  | YES | NO  |
| S03238  | Electric Power Stations and Substations Engineering           | 7 | Assoc. Prof. Ognyan Dinolov, PhD  | YES | NO  |
| S03250  | Protective Relaying   | 6 | Assoc. Prof. Ognyan Dinolov, PhD  | YES | NO  |
| S00756  | Analog Devices 1  | 8 | Assoc. Prof. Anelia Manukova, PhD   | NO  | YES |
| S03148  | Semiconductor Devices   | 5 | Assoc. Prof. Krasimira Shtereva, PhD                                      | YES | YES |
| S03212  | Microelectronics  | 5 | Assoc. Prof. Krasimira Shtereva, PhD                                      | YES | YES |
| S03220  | Microelectronic Circuits                                      | 5 | Assoc. Prof. Krasimira Shtereva, PhD                                      | NO  | YES |
| S00421  | Theory of Electrical Engineering                              | 7 | Assoc. Prof. Boris Evstatiev, PhD   | YES | YES |
| SB15479 | Synthesis and Analysis of Logic Devices                       | 5 | Assoc. Prof. Nadezhda Evstatieva, PhD                                     | YES | YES |
| SB11463 | Broadcasting Equipment  | 6 | Assoc. Prof. Valentin Mutkov, PhD   | YES | NO  |
| SB11182 | Television and Video Equipment                                | 3 | Assoc. Prof. Valentin Mutkov, PhD   | YES | YES |
| S03192  | Signals and Systems   | 6 | Assist. Prof. Yavor Neikov, PhD   | YES | YES |
| S03210  | Automation of the Design in Electronics                       | 6 | Assist. Prof. Seher Kadirova, PhD   | YES | NO  |
| S03206  | Design and Technology of Electronic Systems                   | 6 | Assist. Prof. Seher Kadirova, PhD   | NO  | YES |
| SB11464 | Special and Power Semiconductor Components                    | 2 | Assist. Prof. Seher Kadirova, PhD   | YES | NO  |
| SB11452 | Practice in electrical engineering                            | 3 | Assist. Prof. Seher Kadirova, PhD   | YES | YES |
| SB15440 | Electrical Measurements                                       | 5 | Assist. Prof. Iliyan Tsvetkov, PhD  | YES | YES |
| S03172  | Process control   | 7 | Assist. Prof. Martin Deyanov, PhD   | YES | YES |
| S03168  | Computer Control Systems                                      | 7 | Assoc. Prof. Tsvetelina Georgieva, PhD                                    | YES | YES |
| SB10694 | CAD in electrical engineering                                 | 7 | Assoc. Prof. Tsvetelina Georgieva, PhD                                    | YES | YES |
| SB10692 | Programmable logic controllers                                | 7 | Prof. Plamen Daskalov, PhD  | YES | YES |
| SB10693 | Industrial Communication Networks of Computer Control Systems | 5 | Prof. Plamen Daskalov, PhD  | YES | YES |
| SB10695 | CAD in Mechatronics   | 7 | Assoc. Prof. Aleksandar Ivanov, PhD                                       | YES | YES |
| S03152  | Control Theory-1  | 8 | Assoc. Prof. Donka Ivanova, PhD   | YES | YES |
| S03163  | Control Theory-2  | 7 | Assoc. Prof. Donka Ivanova, PhD   | YES | YES |
| SB11466 | Electronic Regulators   | 3 | Assoc. Prof. Stanislav Penchev, PhD                                       | YES | YES |
| S03169  | System Identification   | 6 | Assoc. Prof. Stanislav Penchev, PhD                                       | YES | YES |
| SB10703 | Quality Control   | 3 | Assoc. Prof. Stanislav Penchev, PhD                                       | YES | YES |
| S02820  | Practice in electrical engineering                            | 3 | Assoc. Prof. Stanislav Penchev, PhD                                       | YES | YES |
| S03154  | Electromechanical devices                                     | 6 | Assoc. Prof. Venelin Yakov, PhD   | YES | YES |
| S03062  | Synthesis and Analysis of Algorithms                          | 6 | Prof. Tsvetozar Georgiev, PhD   | YES | YES |
| S03074  | System Programming  | 4 | Prof. Tsvetozar Georgiev, PhD<br>Assoc. Prof. Georgi Georgiev, PhD        | YES | YES |
| SB11277 | Multimedia Systems and Technologies                           | 4 | Prof. Tsvetozar Georgiev, PhD   | YES | YES |
| S03067  | Databases   | 6 | Assoc. Prof. Irena Valova, PhD<br>Assist. Prof. Tsvetelina Mladenova, MSc | YES | NO  |
| S03076  | Design Technology   | 4 | Assoc. Prof. Anelia Ivanova, PhD  | YES | YES |
| S03070  | Computer Organization   | 6 | Assoc. Prof. Anelia Ivanova, PhD  | YES | YES |
| S03071  | Computer Graphics   | 5 | Assist. Prof. Eliza Ibryamova, PhD  | YES | YES |
| S03085  | Artificial Intelligence                                       | 4 | Assoc. Prof. Svetlana Stefanova, PhD                                      | YES | YES |

|                     |  |   |   |                           |                           |
|---------------------|--|---|---|---------------------------|---------------------------|
| S03079              | Programming Languages  | 6 | Assoc. Prof. Georgi Georgiev, PhD                                       | YES                       | YES                       |
| S03064              | Web Design   | 5 | Assoc. Prof. Georgi Georgiev, PhD<br>Assist. Prof. Yordan Kalmukov, PhD | YES                       | YES                       |
| SB15459             | Computer Reliability and Security  | 6 | Assoc. Prof. Galina Ivanova, PhD<br>Assist. Prof. Pavel Zlatarov, MSc   | YES                       | YES                       |
| S03073              | Software Engineering   | 6 | Assoc. Prof. Galina Ivanova, PhD<br>Assist. Prof. Pavel Zlatarov, MSc   | YES                       | YES                       |
| S03094              | Language Processors  | 5 | Assist. Prof. Tzanko Golemanov, PhD                                     | YES                       | YES                       |
| S03081              | Cryptography and Data Security   | 5 | Assist. Prof. Emilia Golemanova, PhD                                    | YES                       | YES                       |
| S01184              | Logic Programming  | 5 | Assist. Prof. Emilia Golemanova, PhD                                    | YES                       | YES                       |
| SM13952             | Advanced Algorithm Design  | 5 | Assist. Prof. Emilia Golemanova, PhD                                    | YES                       | YES                       |
| SB11289             | Computer Graphics Systems  | 4 | Assoc. Prof. Svetlana Stefanova, PhD                                    | YES                       | YES                       |
| SB11279             | Integrated Environments  | 5 | Assist. Prof. Elitsa Ibryamova, PhD                                     | YES                       | YES                       |
| S03114              | Communication Circuits   | 5 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| SB10682             | Coding in Telecommunication Systems  | 3 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| S03069              | Digital Electronics  | 4 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| S03150              | Pulse and Digital Devices  | 5 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| S03198              | Pulse and Digital Devices (for Electronics)  | 9 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| S01032              | Digital Signal Processing (for Information and Communication Technologies)         | 6 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| SB10680             | Databases (for Internet and Mobile Communications)                                 | 3 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| S03080              | Discrete Structures and Modelling (for Computer Systems and Technologies)          | 5 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| S01672              | Discrete Structures and Modelling (for Information and Communication Technologies) | 5 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| SB10682             | Coding in Telecommunication Systems  | 3 | Assoc. Prof. Adriana Borodzhieva, PhD                                   | YES                       | YES                       |
| S03127              | Telecommunication Security   | 4 | Assoc. Prof. Plamen Zahariev, PhD                                       | YES                       | YES                       |
| S03130              | Wireless Technologies for Data Transfer  | 5 | Assoc. Prof. Plamen Zahariev, PhD                                       | YES                       | YES                       |
| SO2015              | Network Administration   | 6 | Assoc. Prof. Plamen Zahariev, PhD                                       | YES                       | YES                       |
| S02024              | Information and Communication Security   | 6 | Assoc. Prof. Plamen Zahariev, PhD                                       | YES                       | YES                       |
| S02023              | Network and computer security  | 6 | Assoc. Prof. Plamen Zahariev, PhD                                       | YES                       | YES                       |
| S02027              | Applications and Systems for Mobile Terminals and Devices                          | 4 | Assoc. Prof. Plamen Zahariev, PhD                                       | YES                       | YES                       |
| S03119              | Microprocessor Systems   | 7 | Assoc. Prof. Nina Bencheva, PhD   | YES                       | NO                        |
| SB13792             | Digital Television Systems   | 3 | Assoc. Prof. Teodor Iliev, PhD  | NO                        | YES                       |
| SB10672             | Television systems   | 6 | Assoc. Prof. Teodor Iliev, PhD  | YES                       | NO                        |
| <b>MASTER LEVEL</b> |  |   |   | <b>1<sup>st</sup> sem</b> | <b>2<sup>nd</sup> sem</b> |
| SM12981             | Photovoltaic energy systems and farms  | 7 | Prof. Nikola Mihailov, PhD, DHC   | YES                       | YES                       |

|         |  |   |   |     |     |
|---------|--|---|---|-----|-----|
| SM12989 | Design and operation of renewable energy systems and farms                     | 3 | Prof. Nikola Mihailov, PhD, DHC                                 | YES | YES |
| SM12990 | Economics and management of renewable energy systems and farms                 | 2 | Prof. Nikola Mihailov, PhD, DHC                                 | YES | YES |
| SB14159 | Communication technique and specialized automotive networks                    | 5 | Assoc. Prof. Valentin Mutkov, PhD                               | YES | NO  |
| SB12939 | Electronic devices for control of renewable energy sources                     | 5 | Assist. Prof. Yavor Neikov, PhD                                 | NO  | YES |
| SB14164 | Electronic systems for car energy supply control from renewable energy sources | 4 | Assist. Prof. Yavor Neikov, PhD                                 | YES | NO  |
| SM13976 | Automatic control and environmental management systems                         | 3 | Assoc. Prof. Tsvetelina Georgieva, PhD                          | YES | YES |
| S00312  | Embedded control systems   | 5 | Prof. Plamen Daskalov, PhD, Assoc. Prof. Stanislav Penchev, PhD | YES | YES |
| S00313  | Computer Vision  | 8 | Assoc. Prof. Stanislav Penchev, PhD                             | YES | YES |
| S00316  | Intelligent Systems  | 5 | Assoc. Prof. Stanislav Penchev, PhD                             | YES | YES |
| S00716  | Computer control of electromechanical systems                                  | 4 | Assoc. Prof. Venelin Yakov, PhD                                 | YES | YES |
| SB12938 | Telecommunication Engineering  | 6 | Assoc. Prof. Valentin Mutkov, PhD                               | YES | NO  |
| S00261  | Mobile Technologies  | 5 | Prof. Tsvetozar Georgiev, PhD                                   | YES | YES |
| SM13083 | Virtual Instruments  | 4 | Prof. Tsvetozar Georgiev, PhD                                   | YES | YES |
| SM15206 | Computer Security  | 5 | Assoc. Prof. Galina Ivanova Pavel Zlatarov, MSc                 | YES | YES |
| SM14700 | Computer Security and Defense  | 4 | Assoc. Prof. Galina Ivanova Pavel Zlatarov, MSc                 | YES | YES |
| SM15207 | Intelligent Computer Systems   | 3 | Assoc. Prof. Svetlana Stefanova, PhD                            | YES | YES |
| SM17327 | Neural Networks  | 3 | Assoc. Prof. Svetlana Stefanova, PhD                            | YES | YES |
| SB13955 | Programming Systems for Business Modelling                                     | 3 | Assist. Prof. Elitsa Ibryamova, PhD                             | YES | YES |
| SM13070 | Security in the Telecommunication Networks                                     | 5 | Assoc. Prof. Plamen Zahariev, PhD                               | YES | YES |
| SM13069 | Virtualization Technologies and Storage Area Networks                          | 5 | Assoc. Prof. Plamen Zahariev, PhD                               | YES | YES |
| SM2539  | Global Networks and Internet communications                                    | 5 | Assoc. Prof. Plamen Zahariev, PhD                               | YES | YES |
| SB13075 | Design and architectures of the video systems                                  | 3 | Assoc. Prof. Teodor Iliev, PhD                                  | YES | YES |
| SM13052 | Coding and Security in Telecommunication Networks                              | 5 | Assoc. Prof. Adriana Borodzhieva, PhD                           | YES | YES |