## UNIVERSITY OF RUSE "ANGEL KANCHEV"

75 years facing knowledge, youth and future

## Courses in English <br> (face-to-face and online training)

Undergraduate Programme Page
Computer Science ..... 2
Informatics and Information Technologies in the Business ..... 5
Financial Mathematics ..... 7
Pedagogy of Education in Mathematics and Informatics ..... 8
Pre-school and Primary School Education ..... 10
Primary School Education with a Foreign Language ..... 11
Social Pedagogy ..... 14

## Undergraduate Studies in Computer Science

| Winter semester, 2021/2022 academic year |  |  | Summer semester, 2021/2022 academic year |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FIRST YEAR |  |  |  |  |  |
| Code | Course name | ECTS | Code | Course name | ECTS |
| S01034 | Introduction to Programming | 8 | S01076 | Object Oriented <br> Programming | 8 |
| S00848 | Introduction to Informatics | 4 | S01083 | Computer Architectures | 6 |
| S01051 | Calculus I | 6 | S00854 | Discrete Structures | 6 |
| S01065 | Linear Algebra and Geometry | 8 | S01089 | Calculus II | 6 |
| S00856 | English Part I | 4 | S01106 | English Part II | 4 |
| SECOND YEAR |  |  |  |  |  |
| S01118 | Data Structures and Programming | 7 | S01182 | Data Bases | 7 |
| S01119 | Operating Systems | 6 | S01183 | Computer Networks and Communications | 5 |
| S01122 | Computer Graphics | 7 | S00865 | Multimedia Systems and Technologies | 7 |
| S01125 | Numerical Methods | 6 | S01184 | Non-procedural Programming | 5 |
| S01181 | English for Computing | 4 | Elective Courses <br> (students elect a course from each group) |  |  |
|  |  |  |  | Group A |  |
|  |  |  | S01186 | Workshop in Objectoriented programming | 3 |
|  |  |  | S01187 | Workshop in Computer Graphics | 3 |
|  |  |  |  | Group B |  |



| SB10020 | Programming Languages, Automation, Computing | 6 |
| :---: | :---: | :---: |
| Elective Courses <br> (students elect a course from each group) |  |  |
|  | Group A |  |
| S01475 | Programming for Internet | 5 |
| S01481 | Web Design | 5 |
|  | Group B |  |
| SB10021 | Computer Linguistics | 5 |
| S01501 | Client-Server Technology | 5 |
|  | Group C |  |
| S01218 | Workshop on Software Engineering | 3 |
| S01245 | Workshop on Computer Networks and Communications | 3 |
| S01244 | Workshop on Nonprocedural Programming | 3 |


|  |  |  |
| :--- | :--- | :--- |
| Elective Courses |  |  |

(students elect a course from each group)

|  | Group A |  |
| :--- | :--- | :---: |
| SB10022 | Social-legal aspects of <br> Information technologies | 4 |
| SB10023 | Information <br> Technologies in <br> Management | 4 |
| S01538 | Programming of Mobile <br> Devices | 4 |
| S01539 | Geographical <br> Information Systems | 4 |
| S01544 | Visual Programming | 4 |
| Group C | 4 |  |
| S01545 | Assembler | 4 |
| S01546 | System Programming | 4 |
|  |  |  |

* Individual tuition in English


# Undergraduate Studies in Informatics and Information Technologies in the Business 

| Winter semester, 2021/2022 academic year |  |  | Summer semester, 2021/2022 academic year |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FIRST YEAR |  |  |  |  |  |
| Code | Course name | ECTS | Code | Course name | ECTS |
| S00848 | Introduction to Informatics | 4 | S00061 | Computer Architectures | 6 |
| S00845 | Calculus | 6 | S00854 | Discrete Structures | 6 |
| S00856 | English Part I | 4 | S01106 | English Part II | 4 |
| S00832 | Linear Algebra and Geometry | 6 | S01076 | Object Oriented <br> Programming | 8 |
| SECOND YEAR |  |  |  |  |  |
| S01119 | Operating Systems | 6 | S00861 | Probability and Statistics* | 6 |
| S00857 | Computer Graphics | 7 | S00863 | Computer Networks and Communications | 6 |
| S00859 | Accounting | 5 | S01184 | Non-procedural Programming | 6 |
| S00860 | Human Resource <br> Management | 5 | S01510 | Data Bases | 7 |
| 501118 | Data Structures and Programming | 7 |  |  |  |
| THIRD YEAR |  |  |  |  |  |
| S00867 | Component Oriented Programming | 6 | S01215 | Internet Technologies | 6 |
| 501197 | Software Engineering | 7 | S01212 | Artificial Intelligence | 6 |
| S00869 | Communication Policy | 6 | S00875 | Multimedia Systems and Technologies | 5 |
| S00600 | Operations Research | 6 |  | Elective Courses <br> (students elect a course) |  |
|  |  |  | S00882 | Workshop in Software Engineering | 3 |
|  |  |  | S00886 | Workshop in Computer Graphics | 3 |
|  |  |  | S00887 | Workshop | 3 |


| FOURTH YEAR |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S00892 | Visual Programming Ms Office | 7 |  |  |  |
| SB10019 | Image Processing | 6 |  |  |  |
| S01446 | Human-computer Interaction | 6 |  |  |  |
| S01194 | Information Systems | 6 |  |  |  |
| Elective Courses <br> (students elect a course) |  |  | Elective Courses <br> (students elect a course) |  |  |
|  | Group A |  |  | Group A |  |
| S01475 | Programming for Internet | 5 | S01544 | Visual Programming | 4 |
| S01481 | Web Design | 5 | S01539 | Geographical <br> Information Systems | 4 |
|  |  |  | S01538 | Programming of Mobile Devices | 4 |
|  |  |  | S00908 | Computer Linguistics | 4 |
|  |  |  |  | Group B |  |
|  |  |  | 501546 | System Programming | 4 |
|  |  |  | S01545 | Assembler | 4 |
|  |  |  |  | Group C |  |
|  |  |  | S00912 | Computer Modelling | 4 |
|  |  |  | SB10025 | Programming <br> Languages, <br> Automation, <br> Computing | 4 |

[^0]
## Undergraduate Studies in Financial Mathematics

| Winter semester, 2021/2022 academic year |  |  | Summer semester, 2021/2022 academic year |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FIRST YEAR |  |  |  |  |  |
| Code | Course name | ECTS | Code | Course name | ECTS |
| S00701 | Mathematical Analysis, Part I* | 6 | S00870 | Mathematical Analysis II * | 7 |
| S00769 | Linear Algebra and Geometry * | 7 | SB15476 | Discrete Mathematics * | 6 |
| SB13824 | English in Financial Mathematics 1 | 5 | S01094 | Theory of Probability * | 6 |
|  |  |  | S00771 | English in Financial Mathematics 2 | 5 |
| SECOND YEAR |  |  |  |  |  |
| S01223 | Ordinary Differential Equations* | 7 | S01548 | Partial Differential Equations * | 5 |
| S01448 | Statistics* | 6 | S01550 | Econometrics * | 5 |
| SB13824 | English in Financial Mathematics 3 | 5 | SB10203 | English in Financial Mathematics 4 | 4 |
|  |  |  | SB15445 | Programming with Python | 5 |
| THIRD YEAR |  |  |  |  |  |
| S02373 | Introduction to Financial Mathematics * | 7 | S02378 | Insurance Mathematics* | 7 |
| S00876 | Operations Research in Economics* | 7 | SB15167 | Modelling in Finance * | 6 |
| Elective Courses(students elect a course) |  |  | Elective Courses(students elect a course) |  |  |
| S02375 | Typesetting with LaTeX * | 5 | S02381 | Web Design * | 5 |
| S02376 | Computer Graphics * | 5 | S02382 | Multimedia Systems and Technologies * | 5 |
| FOURTH YEAR |  |  |  |  |  |
| SB14353 | Computer Finance* | 6 |  |  |  |

[^1]
## Undergraduate Studies in Pedagogy of Education in Mathematics and Informatics

| Winter semester, 2021/2022 academic year |  |  | Summer semester, 2021/2022 academic year |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FIRST YEAR |  |  |  |  |  |
| Code | Course name | ECTS | Code | Course name | ECTS |
| S01027 | Linear Algebra | 6 | S00982 | Discrete Mathematics | 6 |
| S01034 | Introduction to Programming | 7 | SB15289 | Algebra and Number Theory | 6 |
| 501051 | Mathematical Analysis 1 | 6 | 500870 | Mathematical Analysis 2 | 7 |
| SB15221 | Geometry | 7 | S01076 | Object-oriented <br> Programming | 7 |
| S01947 | English 1 | 4 | S01504 | English 2 | 4 |
| SECOND YEAR |  |  |  |  |  |
| 502611 | Pedagogy | 6 | S00054 | Pedagogical Psychology | 5 |
| SB15234 | Data Structures and Programming | 6 | S00055 | Data Bases * | 6 |
| SB15222 | Programming with C-Sharp | 5 | S00056 | Computer Architectures * | 5 |
| 501119 | Operating Systems | 6 | SB15223 | School Course in Combinatorics, Probability and Statistics | 6 |
| S00058 | Probability and Statistics * | 7 | SB15224 | School Course in Algebra and Mathematical Analysis | 8 |
| THIRD YEAR |  |  |  |  |  |
| S00057 | Computer Graphics and Image Processing * | 6 | S02042 | Methods of Instruction in Mathematics * | 6 |
| SB15225 | Information and Communication Technologies in Education and Work in Digital Environment * | 4 | S02043 | Methods of Instruction in Informatics and Information Technologies | 6 |
| 501096 | School Course in Informatics and | 5 | 502048 | Lesson Observation in Mathematics * | 2 |


|  | Information Technologies * |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SB15226 | School Course in Geometry | 8 | S02060 | Lesson Observation in Informatics and IT* | 2 |
| SB15227 | Ordinary and Partial Differential Equations * | 5 | SB15235 | Multimedia Systems and WEB Design * | 5 |
| SB14538 | Inclusive Education * | 2 | S02064 | Computer Networks andCommunication * | 5 |
|  |  |  | 500048 | Mathematical Software | 4 |
| FOURTH YEAR |  |  |  |  |  |
| SB15256 | Extracurricular Work in Mathematics * | 5 |  |  |  |
| SB15229 | Extracurricular Work in Informatics * | 5 |  |  |  |
| Elective Courses <br> udents elect a course) |  |  | Elective Courses(students elect a course) |  |  |
| SB15257 | Mathematical Optimization | 5 | SB14729 | Pedagogical Communication * | 3 |

* Individual tuition in English


# Undergraduate Studies in Pre-school and Primary School Education 

| Winter semester, 2021/2022 academic year |  |  | Summer semester, 2021/2022 academic year |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FIRST YEAR |  |  |  |  |  |
| Code | Course name | ECTS | Code | Course name | ECTS |
| SB14535 | History of Pedagogy and Bulgarian Education | 5 | SB14553 | Methods of Teaching Elementary Mathematical Concepts | 7 |
| SB14536 | General Psychology | 3 | S02022 | Pedagogical Communication | 1 |
| 502406 | Basic Theory of Music | 2 | SB15598 | Information and Communication Technologies in Education and Work in Digital Environment | 5 |
|  |  |  | SB14552 | Fundamentals of Visual Literacy | 3 |
|  |  |  |  | Elective Courses <br> (students elect a course) |  |
|  |  |  | SB15560 | Conflict Management | 2 |
| SECOND YEAR |  |  |  |  |  |
| SB14555 | Age Psychology | 5 | 503880 | Methods of Instruction in Mathematics at Primary School Level | 8 |
| SB15599 | Methods of Instruction in Music at Primary School Level | 4 | SB15603 | Foundations of Nature Sciences | 2 |
| SB14559 | Methods of Teaching Nature Studies at Kindergarten Level | 2 | SB15601 | Methods of Teaching Art at Primary School Level | 5 |
|  |  |  | SB14558 | Methods of Physical Culture in the Kindergarten |  |
| THIRD YEAR |  |  |  |  |  |
| 503887 | Methods of Instruction in Man and Society | 5 | SB14577 | Pedagogical Psychology | 3 |
| FOURTH YEAR |  |  |  |  |  |
|  |  |  | S03859 | Comparative Education | 3 |

## Undergraduate Studies in Primary School Education with a Foreign Language



| Elective Courses <br> (students elect a course) |  |  | Elective Courses <br> (students elect a course) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | SB11041 | English 4 | 5 |
|  |  |  | SB11042 | German 4 | 5 |
|  |  |  | SB11043 | French 4 | 5 |
| Elective Courses <br> (students elect a course) |  |  | Elective Courses <br> (students elect a course) |  |  |
| 503920 | English 3 | 9 | 3930 | Educative Work of Class Teachers | 1 |
| 503921 | German 3 | 9 |  |  |  |
| 503922 | French 3 | 9 |  |  |  |
| THIRD YEAR |  |  |  |  |  |
| S03887 | Methods of Instruction in Man and Society | 5 | 3898 | Pedagogical Psychology | 3 |
| S03932 | Methods of Instruction in English | 7 | SB14645 | Linguistic Aspects of Acquisition of English by Young Learners | 5 |
| Elective Courses(students elect a course) |  |  | Elective Courses(students elect a course) |  |  |
| S03935 | English 5 | 2 | S03949 | English 6 | 2 |
| S03936 | German 5 | 2 | S03950 | German 6 | 2 |
| S03937 | French 5 | 2 | S03951 | French 6 | 2 |
| Elective Courses <br> (students elect a course) |  |  |  |  |  |
| SB14641 | Pedagogy of Communication Skills | 1 |  |  |  |
| FOURTH YEAR |  |  |  |  |  |
| SB11048 | Teaching Practice in English Language | 2 | S03914 | Comparative Education | 3 |
| SB15201 | Information and Communication Technologies in Education and Work in Digital Environment | 2 |  |  |  |
| SB11050 | Children's Literature in English | 3 |  |  |  |


| Elective Courses <br> (students elect a course) |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :---: | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| SB11053 | English 7 | 3 |  |  |  |  |  |  |  |  |  |
| SB11054 | German 7 | 3 |  |  |  |  |  |  |  |  |  |
| SB11055 | French 7 | 3 |  |  |  |  |  |  |  |  |  |

## Undergraduate Studies in Social Pedagogy

| Winter semester, 2021/2022 academic year |  |  | Summer semester, 2021/2022 academic year |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FIRST YEAR |  |  |  |  |  |
| Code | Course name | ECTS | Code | Course name | ECTS |
|  |  |  | SB14591 | Pedagogical Communication | 1 |
|  |  |  | SB14592 | History of Social Pedagogy | 5 |
|  |  |  | SB15598 | Information and Communication Technologies in Education and Work in Digital Environment | 5 |
|  |  |  |  | Elective courses (students elect a course) |  |
|  |  |  | S01195 | Conflict Management | 3 |
| SECOND YEAR |  |  |  |  |  |
| S03867 | Age Psychology | 5 | SB14596 | Social-Pedagogical Diagnostics | 6 |
| S01207 | Family Pedagogy | 5 | SB14597 | Special Pedagogy and Special Psychology | 5 |
|  |  |  |  | Elective courses (students elect a course) |  |
|  |  |  | SB14601 | Integration of Individuals with Special Educational Needs | 2 |
|  |  |  | SB14602 | Methodology of the Work of Counsellors in Schools | 2 |
| THIRD YEAR |  |  |  |  |  |
| S01234 | Andragogy | 7 | SB14609 | Pedagogical Psychology | 4 |
| S01235 | Social-Pedagogical Work with Children and <br> Adolescents in Risk | 3 |  |  |  |
| S01254 | Career and Professional Development | 4 |  |  |  |
|  |  |  |  | Elective courses (students elect a course) |  |
|  |  |  | S01312 | Stress and Psychological Health | 3 |


[^0]:    * Individual tuition in English

[^1]:    * Individual tuition in English

