**PLAN OF FULL-TIME STUDIES**

Degree course: COMPUTER SCIENCE AND ECONOMETRICS – first-cycle course

Course delivery method: full-time course

Recruitment in the academic year 2022/2023

Duration: 6 semesters

University of Zielona Góra

Faculty of Mathematics, Computer Science and Econometrics

| No. | | COURSE NAME | Hours per semester | ECTS | Form of assignment | SEMESTER 1 | | | | | | | | SEMESTER 2 | | | | | | | | SEMESTER 3 | | | | | | | | SEMESTER 4 | | | | | | | | SEMESTER 5 | | | | | | | | SEMESTER 6 | | | | | | | |
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| | | | | | | Form of classes | | | | | | Form of assignment | ECTS | Form of classes | | | | | | Form of assignment | ECTS | Form of classes | | | | | | Form of assignment | ECTS | Form of classes | | | | | | Form of assignment | ECTS | Form of classes | | | | | | Form of assignment | ECTS | Form of classes | | | | | | Form of assignment | ECTS |
| | | | | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | |
| 1 | Compulsory subjects module (general, basic and course) | English 1 | 30 | 2 | O | | | | | | | | | | | 30 | | | | O | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | English 2 | 30 | 2 | O | | | | | | | | | | | | | | | | | | | 30 | | | | O | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | English 3 | 30 | 2 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | O | 2 | | | | | | | | | | | | | | | | |
| 4 | | English 4 | 30 | 2 | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | E | 2 | | | | | | | | | |
| 5 | | Linear Algebra 1 | 60 | 6 | EO | 30 | 30 | | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Linear Algebra 2 | 60 | 5 | EO | | | | | | | | | 30 | 30 | | | | | EO | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Mathematical Analysis 1 | 60 | 6 | EO | 30 | 30 | | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Mathematical Analysis 2 | 60 | 5 | EO | | | | | | | | | 30 | 30 | | | | | EO | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | Databases 1 | 75 | 5 | EOO | | | | | | | | | | | | | | | | | 30 | 15 | 30 | | | | EOO | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | Operations Research 1 | 60 | 4 | OO | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | OO | 4 | | | | | | | | | | | | | | | | |
| 11 | | Operations Research 2 | 60 | 4 | EO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 4 | | | | | | | | | |
| 12 | | Econometrics | 60 | 4 | EOO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 15 | 15 | | | | EOO | 4 | | | | | | | | | |
| 13 | | Enterprise Finance | 30 | 5 | OO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 15 | | | | | OO | 5 |
| 14 | | Public Finance | 15 | 1 | O | | | | | | | | | 15 | | | | | | O | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Computer Science in Economics | 30 | 2 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | | | O | 2 |
| 16 | | Discrete Mathematics 1 | 60 | 6 | OO | | | | | | | | | 30 | 30 | | | | | OO | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | Mathematical Finance and Actuarial Mathematics | 60 | 4 | OO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 4 | | | | | | | | | |
| 18 | | Macroeconomics | 45 | 6 | EO | | | | | | | | | 30 | 15 | | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | Microeconomics | 45 | 6 | EO | 30 | 15 | | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | Law | 15 | 1 | O | 15 | | | | | | O | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | Computer Programming 1 | 60 | 6 | EO | 30 | | 30 | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | Computer Programming 2 | 60 | 5 | EO | | | | | | | | | 30 | | 30 | | | | EO | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | Large Scale Software Design | 60 | 4 | EO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 4 | | | | | | | | | |
| 24 | | Probability Theory | 60 | 4 | EO | | | | | | | | | | | | | | | | | 30 | 30 | | | | | EO | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | Accountancy | 30 | 3 | OO | 15 | 15 | | | | | OO | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | Mathematical Statistics | 60 | 4 | EO | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | EO | 4 | | | | | | | | | | | | | | | | |
| 27 | | Descriptive and Economic Statistics | 30 | 2 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | O | 2 | | | | | | | | | | | | | | | | |
| 28 | | Diploma Seminar 1 | 30 | 3 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | O | 3 | | | | | | | | | |
| 29 | | Diploma Seminar 2 | 60 | 7 | Z | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 60 | | Z | 7 |
| 30 | | Information Technology | 30 | 2 | O | | | 30 | | | | O | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | Physical Education 1 | 30 | 0 | Z | | 30 | | | | | Z | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | Physical Education 2 | 30 | 0 | Z | | | | | | | | | | 30 | | | | | Z | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | Management | 45 | 3 | OO | | | | | | | | | | | | | | | | | 30 | 15 | | | | | OO | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Specialty - Business Analytics | Economic Analysis of Projects | 60 | 5 | OO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 5 |
| 2 | | Object-oriented Analysis and Programming in UML | 60 | 5 | EO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | 30 | | | EO | 5 |
| 3 | | Databases Project 1 | 15 | 3 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | O | 3 | | | | | | | | | | | | | | | | |
| 4 | | Business Plan | 30 | 3 | OO | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | | OO | 3 | | | | | | | | | | | | | | | | |
| 5 | | Dynamic Reporting | 60 | 6 | EO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Fundamentals of Cryptography | 60 | 6 | EO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Fundamentals of Management and Safety Database Systems | 45 | 4 | OO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 30 | | | | OO | 4 |
| 8 | | Data Processing and Visualisation | 60 | 5 | EO | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 | | | | | | | | | | | | | | | | |
| 9 | | Professional Internship | 75 | 3 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 75 | | O | 3 | | | | | | | | |
| 10 | | Game Theory | 60 | 5 | EO | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | EO | 5 | | | | | | | | | | | | | | | | |
| 1 | Specialty - Statistics and Econometrics | Databases Project 1 | 15 | 3 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | O | 3 | | | | | | | | | | | | | | | | |
| 2 | | Quality Control | 60 | 6 | EO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 |
| 3 | | Actuarial Methods | 60 | 4 | OO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | OO | 4 | | | | | | | | | |
| 4 | | Introduction to Mathematical Modelling | 45 | 6 | EO | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 30 | | | | EO | 6 | | | | | | | | | | | | | | | | |
| 5 | | Experimental Design | 60 | 5 | OO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 5 |
| 6 | | Practical Methods of Statistics | 60 | 5 | EO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 |
| 7 | | Professional Internship | 75 | 3 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 75 | | O | 3 | | | | | | | | |
| 8 | | Mathematical Statistics – Laboratory | 30 | 2 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | O | 2 | | | | | | | | | | | | | | | | |
| 9 | | Game Theory | 60 | 5 | EO | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | EO | 5 | | | | | | | | | | | | | | | | |
| 10 | | Introduction to Numerical Methods | 60 | 6 | EOO | | | | | | | | | | | | | | | | | 30 | 15 | 15 | | | | EOO | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Specialty - Information Systems | Algorithms and Data Structures | 60 | 5 | EO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Databases Project 1 | 15 | 3 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | O | 3 | | | | | | | | | | | | | | | | |
| 3 | | Databases Project 2 | 30 | 4 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | O | 4 | | | | | | | | | |
| 4 | | Databases 2 | 60 | 5 | EO | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 | | | | | | | | | | | | | | | | |
| 5 | | Security of IT Systems | 60 | 5 | EO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 |
| 6 | | Discrete Mathematics 2 | 60 | 4 | OO | | | | | | | | | | | | | | | | | 30 | 30 | | | | | OO | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Fundamentals of Management and Safety Database Systems | 45 | 4 | OO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 30 | | | | OO | 4 |
| 8 | | Object-oriented Programming 1 | 60 | 6 | EO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | Object-oriented Programming 2 | 60 | 6 | EO | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | | | | | | | | | |
| 10 | | Professional Internship | 75 | 3 | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 75 | | O | 3 | | | | | | | | |

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| Compulsory subjects module | 1500 | 121 | 15 E | 330 | | | 4 E | 30 | 360 | | | 4 E | 30 | 210 | | | 2 E | 14 | 180 | | | 1 E | 12 | 300 | | | 4 E | 21 | 120 | | | 0 E | 14 |
| Specialty - Business Analytics | 525 | 45 | 5 E | 0 | | | 0 E | 0 | 0 | | | 0 E | 0 | 120 | | | 2 E | 12 | 165 | | | 2 E | 16 | 75 | | | 0 E | 3 | 165 | | | 1 E | 14 |
| Specialty - Statistics and Econometrics | 525 | 45 | 5 E | 0 | | | 0 E | 0 | 0 | | | 0 E | 0 | 60 | | | 1 E | 6 | 150 | | | 2 E | 16 | 135 | | | 0 E | 7 | 180 | | | 2 E | 16 |
| Specialty - Information Systems | 525 | 45 | 5 E | 0 | | | 0 E | 0 | 0 | | | 0 E | 0 | 180 | | | 1 E | 15 | 135 | | | 2 E | 14 | 105 | | | 0 E | 7 | 105 | | | 2 E | 9 |
| Practices | 75 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total (specialty - Business Analytics) | **2025** | **166** | **20 E** | **330** | | | **4 E** | **30** | **360** | | | **4 E** | **30** | **330** | | | **4 E** | **26** | **345** | | | **3 E** | **28** | **375** | | | **4 E** | **24** | **285** | | | **1 E** | **28** |
| Total (specialty - Statistics and Econometrics) | **2025** | **166** | **20 E** | **330** | | | **4 E** | **30** | **360** | | | **4 E** | **30** | **270** | | | **3 E** | **20** | **330** | | | **3 E** | **28** | **435** | | | **4 E** | **28** | **300** | | | **2 E** | **30** |
| Total (specialty - Information Systems) | **2025** | **166** | **20 E** | **330** | | | **4 E** | **30** | **360** | | | **4 E** | **30** | **390** | | | **3 E** | **29** | **315** | | | **3 E** | **26** | **405** | | | **4 E** | **28** | **225** | | | **2 E** | **23** |

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| Total without practices | **1950** | **163** |

Additional subjects offered for degree course: COMPUTER SCIENCE AND ECONOMETRICS

| No. | | COURSE NAME | SEMESTER 1 | | | | | | | | SEMESTER 2 | | | | | | | | SEMESTER 3 | | | | | | | | SEMESTER 4 | | | | | | | | SEMESTER 5 | | | | | | | | SEMESTER 6 | | | | | | | |
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| | | | Form of classes | | | | | | Form of assignment | ECTS | Form of classes | | | | | | Form of assign | ECTS | Form of classes | | | | | | Form of assign | ECTS | Form of classes | | | | | | Form of assign | ECTS | Form of classes | | | | | | Form of assign | ECTS | Form of classes | | | | | | Form of assign | ECTS |
| | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | | L | C | Lab | P | S | Pra | | |
| 1 | ADDITIONAL | Algorithms and Data Structures | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 | | | | | | | | | 30 | | 30 | | | | EO | 5 | | | | | | | | |
| 2 | | Economic Analysis of Projects | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 5 |
| 3 | | Object-oriented Analysis and Programming in UML | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | 30 | | | EO | 5 |
| 4 | | Web Applications and PHP Applications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 4 |
| 5 | | Databases 2 | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 | | | | | | | | | 30 | | 30 | | | | EO | 5 |
| 6 | | Databases Project 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | O | 3 | | | | | | | | | | | | | | | | |
| 7 | | Databases Project 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | O | 4 | | | | | | | | | | |
| 8 | | Security of IT Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 |
| 9 | | Business Plan | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 15 | | | OO | 3 | | | | | | | | | | | | | | | | |
| 10 | | Dynamic Reporting | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 |
| 12 | | LaTeX | | | | | | | | | | | | | | | | | | | 30 | | | | O | 2 | | | | | | | | | | | 30 | | | | O | 2 | | | | | | | | |
| 13 | | Discrete Mathematics 2 | | | | | | | | | | | | | | | | | 30 | 30 | | | | | OO | 4 | | | | | | | | | 30 | 30 | | | | | OO | 4 | | | | | | | | |
| 14 | | Actuarial Methods | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | OO | 4 | | | | | | | | |
| 15 | | Probabilistic Methods in Computer Science | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | EO | 5 | | | | | | | | | 30 | 30 | | | | | EO | 5 |
| 16 | | Experimental Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 5 |
| 17 | | Mathematical Software | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | O | 2 |
| 18 | | Fundamentals of Cryptography | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | |
| 19 | | Introduction to Mathematical Modelling | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 30 | | | EO | 6 | | | | | | | | | 15 | | | 30 | | | EO | 6 |
| 20 | | Basics of Machine Learning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 5 | | | | | | | | |
| 21 | | Fundamentals of Management and Safety Database Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 30 | | | | OO | 4 |
| 22 | | Practical Methods of Statistics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 |
| 23 | | Professional Internship | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 75 | | O | 3 | | | | | | | | |
| 24 | | Mobile Applications Programming | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 5 | | | | | | | | |
| 25 | | Quantum Computing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 5 |
| 26 | | Object-oriented Programming 1 | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | |
| 27 | | Object-oriented Programming 2 | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 6 | | | | | | | | | 30 | | 30 | | | | EO | 6 |
| 28 | | Programming in Statistical Software Packages | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | O | 3 |
| 29 | | Data Processing and Visualisation | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | EO | 5 | | | | | | | | | | | | | | | | |
| 30 | | Computer Networks | | | | | | | | | | | | | | | | | 30 | | 30 | | | | OO | 5 | | | | | | | | | 30 | | 30 | | | | OO | 5 | | | | | | | | |
| 31 | | Mathematical Statistics – Laboratory | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | O | 2 | | | | | | | | | | | 30 | | | | O | 2 |
| 32 | | Game Theory | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | EO | 5 | | | | | | | | | | | | | | | | |
| 33 | | Introduction to Numerical Methods | | | | | | | | | | | | | | | | | 30 | 15 | 15 | | | | EOO | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | HUMANITIES | Polish Language in Practice | | | | | | | | | | | | | | | | | | 30 | | | | | O | 3 | | | | | | | | | | 30 | | | | | O | 3 | | | | | | | | |
| 2 | | Introductory Course to Thesis Writing and Editing | | | | | | | | | | | | | | | | | | 30 | | | | | O | 3 | | | | | | | | | | 30 | | | | | O | 3 | | | | | | | | |

Recommended:

Resolution No. 17 of the Mathematics Discipline Council of 02 March 2022

Approved by Faculty Education Council at the Faculty of Mathematics, Computer Science and Econometrics:

Resolution no 2 of 03 March 2022