**Courses in 2021/2022 academic year**

**Faculty of Applied Mathematics and Control Processes**

**Autumn term: September 01, 2021 – January 31, 2022**

**Master program “Game Theory and Operations Research” (# 5644)**

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| **Year of study** | **Course code** | **Course Title** | **Language** | **Type of course/ Final control** | **Type of discipline** | **ECTS** |
| 1 | 032101 | Статистические решения и эконометрика Statistical Decisions and Econometrics | English | Seminars+Practice+Labs/exam | Main | 4 |
| 032098 | Исследование операций и теория игр Operations Research and Game Theory | English | Lectures+Seminars/exam | Main | 2 |
| 032099 | Современная теория управленияModern Control Theory | English | Lectures+Seminars/credit | Main | 4 |
| 032105 | ИнформатикаComputer Science | English | Seminars+Practice/credit | Main | 4 |
| 032106 | Методы конечномерной оптимизацииFinite Dimensional Optimization Methods | English | Lectures+Seminars/exam | Main | 4 |
| 032108 | Математическое и компьютерное прогнозированиеMathematical and Computer Forecasting | English | Lectures+Seminars/exam | Elective | 4 |
| 032107 | Управление запасамиInventory Management | English | Lectures+Seminars/exam | Elective | 4 |
| 032109 | Случайные процессыStochastic Processes | English | Lectures+Seminars/exam | Elective | 4 |
| 2 | 032112 | Качественные методы прикладного экономического анализаQualitative Methods in Applied Economic Analysis | English | Lectures+Seminars/exam | Main | 3 |
| 054517 | Эконометрика (продвинутый уровень)Econometrics (Advanced Level) | English | Seminars+Practice/exam | Main | 5 |
| 032115 | Управление проектамиProject Management | English | Lectures+Seminars/credit | Main | 5 |
| 032103 | Теория массового обслуживанияQueueing Theory | English | Lectures+Seminars/credit | Main | 4 |
| 032119 | Динамические игрыDynamic Games | English | Lectures+Seminars/credit | Elective | 3 |
| 032118 | Теоретико-игровые модели экономической конкуренцииGame-Theoretic Models of Economic Competition | English | Lectures+Seminars/credit | Elective | 3 |

**Spring term: February 10, 2022 – June 30, 2022**

**Bachelor program “Applied Mathematics, Fundamental Informatics and Programming” (# 5005)**

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| **Year of study** | **Course code** | **Course Title** | **Language** | **Type of course/ Final control** | **Type of discipline** | **ECTS** |
| 4 | 050444 | Концепции современного естествознания Concepts of Modern Natural Science | English | Lectures+Seminars+practice/exam | Elective(Main from 2023) | 4 |

**Bachelor program “Programming and Information Technology” (# 5003)**

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| **Year of study**  | **Course code** | **Course Title** | **Language** | **Type of course/ Final control** | **Type of discipline** | **ECTS** |
| 4 | 056801 | Grid and Cloud Computing Grid and Cloud Computing | English | Seminars+Practice/exam | Main | 3 |

**Bachelor program “System Analysis and Applied Computer Technologies” (# 5118)**

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| **Year of study**  | **Course code** | **Course Title** | **Language** | **Type of course/ Final control** | **Type of discipline** | **ECTS** |
| 4 | 053977 | Менеджмент наукоемких технологий Management of Science-Based Technology  | English | Lectures+Seminars/credit | Main | 2 |

**Master program “GameTheory and Operations Research” (# 5644)**

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| **Year of study**  | **Course code** | **Course Title** | **Language** | **Type of course/ Final control** | **Type of discipline** | **ECTS** |
| 1 | 032112 | Качественные методы прикладного экономического анализаQualitative Methods in Applied Economic Analysis | English | Lectures+Seminars/credit | Main | 4 |
| 032111 | Графы и потоки в сетях Graphs and Flows in Networks | English | Lectures+Seminars/exam | Main | 5 |
| 032098 | Исследование операций и теория игр Operations Research and Game Theory | English | Lectures+Seminars/exam | Main | 3 |
| 032099 | Современная теория управленияModern Control Theory | English | Lectures+Seminars/credit | Main | 2 |
| 045392 | Кооперативные игры Cooperative Games | English | Lectures+Seminars/credit | Elective | 5 |
| 058981 | Дифференциальные игры в экономикеDifferential Games in Economics | English | Lectures+Seminars/credit | Elective | 5 |
| 032110 | Прикладная статистика в пакете RApplied Statistics in R | English | Practice+Labs/exam | Main | 4 |
| 2 | 032117 | Компьютерное моделирование и управление очередямиComputer Simulation and Queuing Theory | English | Lectures+Seminars/credit | Elective | 4 |
| 032113 | Финансовая математикаFinancial Mathematics | English | Lectures+Seminars/credit | Elective | 4 |