

| tárgykód_régi | tárgynév angolul_régi | tárgykód_új | tárgynév angolul_új |
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| ELOSZTOTT SZOFTVERRENDSZEREK SPECIALIZÁCIÓ (SOFTWARE AND SERVICES ARCHITECTURES) | | | |
| Specializáció kötelező tárgyai | | | |
| IPM-18feszTPE | Theory of programming L. | IPM-22feszTPE | Theory of programming L. |
| IPM-18feszTPG | Theory of programming Pr. | IPM-22feszTPG | Theory of programming Pr. |
| IPM-18feszSQTE | Software quality and testing L. | IPM-22feszSQTE | Software quality and testing L. |
| IPM-18feszSQTG | Software quality and testing Pr. | IPM-22feszSQTG | Software quality and testing Pr. |
| IPM-18feszFSE | Formal semantics L | IPM-22feszFSE | Formal semantics L |
| IPM-20feszSALAB1 | Software Architecture Lab I. | IPM-22feszSALAB1 | Software Technology Lab I |
| IPM-18feszDDSE | Design of distributed systems L. | IPM-22feszDDSE | Design of distributed systems L. |
| IPM-18feszDDSG | Design of distributed systems Pr. | IPM-22feszDDSG | Design of distributed systems Pr. |
| IPM-20feszSALAB2 | Software Architecture Lab II. | IPM-22feszSALAB2 | Software Technology Lab II |
| Specializáció kötelezően választható tárgyai | | | |
| IPM-18feszMCE | Models of computation L. | IPM-22feszMCE | Models of computation L. |
| IPM-18feszMCG | Models of Computation Pr. | IPM-22feszMCG | Models of Computation Pr. |
| IPM-18feszAJPE | Advanced Java programming L. | IPM-22feszAJPE | Advanced Java programming L. |
| IPM-18feszAJPG | Advanced Java programming Pr. | IPM-22feszAJPG | Advanced Java programming Pr. |
| IPM-20fIDSEG | Introduction to Data Science L+Pr. | IPM-22feszIDSEG | Introduction to Data Science L+Pr. |
| IPM-20fpiPAIEG | Principles of artificial intelligence L+Pr. | IPM-22feszPAIEG | Principles of artificial intelligence L+Pr. |
| IPM-18feszSESCE | Service Science L. | IPM-22feszSESCE | Service Science L. |
| IPM-18feszSESCG | Service Science Pr. | IPM-22feszSESCG | Service Science Pr. |
| IPM-18feszCISE | Complex information systems L. | IPM-22feszCISE | Complex information systems L. |
| IPM-18feszCISG | Complex information systems Pr. | IPM-22feszCISG | Complex information systems Pr. |
| IPM-18feszFUNLEG | Functional Languages L+Pr. | IPM-22feszFUNLEG | Functional Languages L+Pr. |
| IPM-18feszSEAPE | Scalable enterprise applications L. | IPM-22feszSEAPE | Scalable enterprise applications L. |
| IPM-18feszSEAPG | Scalable enterprise applications Pr. | IPM-22feszSEAPG | Scalable enterprise applications Pr. |
| IPM-18feszADSEG | Analysis of distributed systems L+Pr. | IPM-22feszADSEG | Analysis of distributed systems L+Pr. |
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| MESTERSÉGES INTELLIGENCIA SPECIALIZÁCIÓ (ARTIFICIAL INTELLIGENCE) | | | |
| Specializáció kötelező tárgyai | | | |
| IPM-20fmiRMG | Research methodology Pr. | IPM-22fRMEG | Research methodology L+Pr. |
| IPM-21fmiDNDEG | Deep Network Developments L+Pr. | IPM-22fmiDNDEG | Deep Network Developments L+Pr. |
| IPM-19fmiPAIEG | Principles of artificial intelligence L+Pr. | IPM-22fmiPAIEG | Principles of artificial intelligence L+Pr. |
| IPM-19fmiMTAAEG | Methods and tools for AI applications L+Pr. | IPM-22fmiMTAAEG | Methods and tools for AI applications L+Pr. |
| IPM-20fmiDRLEG | Deep Reinforcement Learning L+Pr. | IPM-22fmiDRLEG | Deep Reinforcement Learning L+Pr. |
| SPECIALIZÁCIÓ KÖTELEZŐEN VÁLASZTHATÓ TÁRGYAI | | | |
| IPM-20fmiPREPG | Preparation course for master studies and developing learning skills | IPM-22fmiPREPG | Preparation course for master studies and developing learning skills |
| IPM-19fmiMASEG | Multi-agent systems L+Pr. | IPM-22fmiMASEG | Multi-agent systems L+Pr. |
| IPM-19fmiROBEG | AI Robotics L+Pr. | IPM-22fmiROBEG | AI Robotics L+Pr. |
| IPM-19fmiCVEG | 3D Computer Vision L+Pr. | IPM-22fmiCVEG | 3D Computer Vision L+Pr. |
| IPM-20fIDSEG | Introduction to Data Science L+Pr. | IPM-22fmiIDSEG | Introduction to Data Science L+Pr. |
| IPM-19fmiMLEG | Machine Learning L+Pr. | IPM-22fmiMLEG | Machine Learning L+Pr. |
| IPM-19fmiAMLEG | Advanced Machine Learning L+Pr. | IPM-22fmiAMLEG | Advanced Deep Network Development |
| IPM-19fmiCOSCEG | Cognitive sciences L+Pr. | IPM-22fmiCOSCEG | Cognitive sciences L+Pr. |
| IPM-19fmiACEG | Affective computing L+Pr. | IPM-22fmiACEG | Affective computing L+Pr. |
| IPM-21fmiFDSE | Foundations of Data Science | | |
| IPM-21fmiFDSG | Foundations of Data Science | IPM-22fmiTAMEG | Topics in Applied Mathematics |
| IPM-19fmiGTEG | Game theory L+Pr. | IPM-22fmiGTEG | Game theory L+Pr. |
| IPM-20fmiNLPEG | Natural Language Processing | IPM-22fmiNLPEG | Natural Language Processing |
| IPM-20fmiLP1E | Logic programming I. | IPM-22fmiLPE | Logic programming L |
| IPM-20fmiLP2G | Logic programming II. | IPM-22fmiLPG | Logic programming Pr |
| IPM-21fmiCIEG | Computational Intelligence | IPM-22fmiCIEG | Computational Intelligence |
| IPM-21fmiSIEG | Societal Intelligence | IPM-22fmiCOLLIEG | Collective Intelligence |
| IPM-21fmiAIPLAB1 | AI Project Lab I. | IPM-22fmiAIPLAB1 | AI Project Lab I. |
| IPM-21fmiAIPLAB2 | AI Project Lab II. | IPM-22fmiAIPLAB2 | AI Project Lab II. |
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| KIBERBIZTONSÁG SPECIALIZÁCIÓ (CYBER SECURITY) | | | |
| Specializáció kötelező tárgyai | | | |
| IPM-20fIDSEG | Introduction to Data Science L+Pr. | IPM-22fkbDSEG | Introduction to Data Science L+Pr. |
| IPM-18fkbICSE | Introduction to Computer Security L. | IPM-22fkbICSE | Introduction to Computer Security L. |
| IPM-18fkbICSG | Introduction to Computer Security Pr. | IPM-22fkbICSG | Introduction to Computer Security Pr. |
| IPM-18fkbCGE | Cryptography L. | IPM-22fkbCGE | Cryptography L. |
| IPM-18fkbCGG | Cryptography Pr. | IPM-22fkbCGG | Cryptography Pr. |
| IPM-18fkbSQTE | Software quality and testing L. | IPM-22fkbSQTE | Software quality and testing L. |
| IPM-18fkbSQTG | Software quality and testing Pr. | IPM-22fkbSQTG | Software quality and testing Pr. |
| IPM-18fkbNSSE | Network and System Security L. | IPM-22fkbNSSE | Network and System Security L. |
| IPM-18fkbNSSG | Network and System Security Pr. | IPM-22fkbNSSG | Network and System Security Pr. |
| IPM-18fkbACRE | Advanced cryptography L. | IPM-22fkbACRE | Advanced cryptography L. |
| IPM-18fkbACRG | Advanced cryptography Pr. | IPM-22fkbACRG | Advanced cryptography Pr. |
| IPM-18fkbCRPE | Cryptography protocols L. | IPM-22fkbCRPE | Cryptographic Protocols L. |
| IPM-18fkbCRPG | Cryptography protocols Pr. | IPM-22fkbCRPG | Cryptographic Protocols Pr. |
| IPM-20fkbSCLAB1 | Cyber Security Lab I | IPM-22fkbSCLAB1 | Cyber Security Lab I |

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| IPM-20fkbSCLAB2 | Cyber Security Lab II. | IPM-22fkbSCLAB2 | Cyber Security Lab II. |
| IPM-21fkbCRAE | Provably secure modular design of cryptographic protocols L | IPM-22fkbCRAE | Provably secure modular design of cryptographic protocols L |
| IPM-21fkbCRAG | Provably secure modular design of cryptographic protocols Pr | IPM-22fkbCRAG | Provably secure modular design of cryptographic protocols Pr |
| IPM-18fkbCRAE | Cryptography and its applications L. | IPM-22fkbCRAE | Provably secure modular design of cryptographic protocols L |
| IPM-18fkbCRAG | Cryptography and its applications Pr. | IPM-22fkbCRAG | Provably secure modular design of cryptographic protocols Pr |
| IPM-18fkbISME | Information Security Management L. | IPM-22fkbISPEG | Information security and privacy L+Pr. |
| IPM-20fkbISMG | Information Security Management Pr. | | |
| IPM-18fkbPYE | Privacy L. | IPM-22fkbISPEG | Information security and privacy L+Pr. |
| IPM-18fkbPYG | Privacy Pr. | | |
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| ADATTUDOMÁNY SPECIALIZÁCIÓ (DATA SCIENCE) | | | |
| Specializáció kötelező tárgyai | | | |
| IPM-20fIDSEG | Introduction to Data Science L+Pr. | IPM-22fatDSEG | Introduction to Data Science L+Pr. |
| IPM-18fatFDSE | Foundations of Data Science L. | IPM-22fatTAMEG | Topics in Applied Mathematics L+Pr. |
| IPM-18fatFDSG | Foundations of Data Science Pr. | | |
| IPM-18fatMLEG | Machine Learning L+Pr. | IPM-22fatMLEG | Machine Learning L+Pr. |
| IPM-20fatODSEG | Optimization for Data Science L+Pr. | IPM-22fatODSEG | Numerical Methods for Optimization L+Pr. |
| IPM-20fatDSLAB1 | Data Science Lab I | IPM-22fatDSLAB1 | Data Science Lab I |
| IPM-20fatDSLAB2 | Data Science Lab II | IPM-22fatDSLAB2 | Data Science Lab II |
| IPM-18fatSMEG | Stream Mining L+Pr. | IPM-22fatSMEG | Stream Mining L+Pr. |
| IPM-18fatAMLEG | Advanced Machine Learning L+Pr. | IPM-22fatAMLEG | Advanced Deep Network Development L+Pr. |
| IPM-18fatOSTEG | Open-source Technologies for Real-time Data Analytics L+Pr. | IPM-22fatOSTEG | Open-source Technologies for Data Science L+Pr. |
| SPECIALIZÁCIÓ KÖTELEZŐEN VÁLASZTHATÓ TÁRGYAI | | | |
| IPM-18fatIPE | Theory of programming L. | IPM-22fatIPE | Theory of programming L. |
| IPM-18fatIPG | Theory of programming Pr. | IPM-22fatIPG | Theory of programming Pr. |
| IPM-18fatDMDBE | Data models and databases L. | IPM-22fatDMDBE | Data models and databases L. |
| IPM-18fatDMDBG | Data models and databases Pr. | IPM-22fatDMDBG | Data models and databases Pr. |
| IPM-18fatCISE | Complex information systems L. | IPM-22fatCISE | Complex information systems L. |
| IPM-18fatCISG | Complex information systems Pr. | IPM-22fatCISG | Complex information systems Pr. |
| IPM-18fatNSEG | Network Science L+Pr. | IPM-22fatNSEG | Network Science L+Pr. |
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| PÉNZÜGYI INFORMATIKA SPECIALIZÁCIÓ (FINTECH) | | | |
| Specializáció kötelező tárgyai | | | |
| IPM-20fIDSEG | Introduction to Data Science L+Pr. | IPM-22fIDSEG | Introduction to Data Science L+Pr. |
| IPM-20fpiICSE | Introduction to Computer Security L. | IPM-22fpiICSE | Introduction to Computer Security L. |
| IPM-20fpiICSG | Introduction to Computer Security Pr. | IPM-22fpiICSG | Introduction to Computer Security Pr. |
| IPM-20fpiIFE | Introduction to Finance L. | IPM-22fpiIFE | Introduction to Finance L. |
| IPM-20fpiIFG | Introduction to Finance Pr. | IPM-22fpiIFG | Introduction to Finance Pr. |
| IPM-20fpiSESCE | Service Science L. | IPM-22fpiSESCE | Service Science L. |
| IPM-20fpiSESCG | Service Science Pr. | IPM-22fpiSESCG | Service Science Pr. |
| IPM-20fpiSESCE | Complex information systems L. | IPM-22fpiSESCE | Complex information systems L. |
| IPM-20fpiCISG | Complex information systems Pr. | IPM-22fpiCISG | Complex information systems Pr. |
| IPM-20fpiBIE | Business Intelligence L. | IPM-22fpiBIE | Business Intelligence and Data Visualization L. |
| IPM-20fpiBIG | Business Intelligence Pr. | IPM-22fpiBIG | Business Intelligence and Data Visualization Pr. |
| IPM-20fpiDFISE | Development of Financial IT Systems L. | IPM-22fpiDFISE | Development of Financial IT Systems L. |
| IPM-20fpiDFISG | Development of Financial IT Systems Pr. | IPM-22fpiDFISG | Development of Financial IT Systems Pr. |
| IPM-20fpiFTLAB1 | Fintech Lab I | IPM-22fpiFTLAB1 | Fintech Lab I |
| IPM-20fpiFTLAB2 | Fintech Lab II. | IPM-22fpiFTLAB2 | Fintech Lab II. |
| SPECIALIZÁCIÓ KÖTELEZŐEN VÁLASZTHATÓ TÁRGYAI | | | |
| IPM-20fpiPAIEG | Principles of artificial intelligence L+Pr. | IPM-22fpiPAIEG | Principles of artificial intelligence L+Pr. |
| IPM-20fpiMLEG | Machine Learning L+Pr. | IPM-22fpiMLEG | Machine Learning L+Pr. |
| IPM-20fpiAMLEG | Advanced Machine Learning L+Pr. | IPM-22fpiADNDEG | Advanced Deep Network Development |
| IPM-21fmiSIEG | Societal Intelligence | IPM-22fpiCOLLIEG | Collective Intelligence |
| IPM-19fmiACEG | Affective computing | IPM-22fmiACEG | Affective computing |
| IPM-18fatDMDBE | Data models and databases L. | IPM-22fpiDMDBE | Data models and databases L. |
| IPM-18fatDMDBG | Data models and databases Pr. | IPM-22fpiDMDBG | Data models and databases Pr. |
| IPM-18fatNSEG | Network Science L+Pr. | IPM-22fpiNSEG | Network Science L+Pr. |
| IPM-19fmiCOSCEG | Cognitive sciences L+Pr. | IPM-22fpiCOSCEG | Cognitive sciences L+Pr. |
| IPM-18AUTPME | Project Management | IPM-22fpiPME | Project Management |
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| IPAR 4.0 SPECIALIZÁCIÓ (DIGITAL FACTORY) | | | |
| Specializáció kötelező tárgyai | | | |
| IPMSEK-20fi4MSLSG | Master studies and learning skills Pr. | IPMSEK-22fi4MSLSG | Master studies and learning skills Pr. |
| IPMSEK-20fi4ICSE | Introduction to Computer Security L. | IPMSEK-22fi4ICSE | Introduction to Computer Security L. |
| IPMSEK-20fi4ICSG | Introduction to Computer Security Pr. | IPMSEK-22fi4ICSG | Introduction to Computer Security Pr. |
| IPMSEK-20fi4PAIEG | Principles of artificial intelligence L+Pr. | IPMSEK-22fi4PAIEG | Principles of artificial intelligence L+Pr. |

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| IPMSEK-20fi4FEPEG | Manufacturing Engineering for Programmers L+Pr. | IPMSEK-22fi4FEPEG | Manufacturing Engineering for Programmers L+Pr. |
| IPMSEK-20fi4ROBEG | Industrial robotics L+Pr. | IPMSEK-22fi4ROBEG | Industrial robotics L+Pr. |
| IPMSEK-20fi4ICEG | Industrial communications L+Pr. | IPMSEK-22fi4ICEG | Industrial communications L+Pr. |
| IPMSEK-20fi4IDEG | Industrial Databases L+Pr. | IPMSEK-22fi4IDEG | Industrial Databases L+Pr. |
| IPMSEK-20fi4DMEG | Digital Manufacturing L+Pr. | IPMSEK-22fi4DMEG | Digital Manufacturing L+Pr. |
| IPMSEK-20fi4HBPEG | Hardware based programming L+Pr. | IPMSEK-22fi4HBPEG | Hardware based programming L+Pr. |
| IPMSEK-20fi4CNCPEG | CNC programming L+Pr. | IPMSEK-22fi4CNCPEG | CNC programming L+Pr. |
| IPMSEK-20fi4DAMEG | Data Mining L+Pr. | IPMSEK-22fi4DAMEG | Data Mining L+Pr. |
| IPMSEK-20fi4DFLAB1 | Digital Factory Lab I | IPMSEK-22fi4DFLAB1 | Digital Factory Lab I |
| IPMSEK-20fi4DFLAB2 | Digital Factory Lab II. | IPMSEK-22fi4DFLAB2 | Digital Factory Lab II. |

