

Computer Science MSc (Software Architecture Specialization 2022), Spring semester

Compulsory subjects

| Code | Subject | Lecture (L) | Practice (Pr) | Labor | Consultation | Requirement | Credit | Semester | Subject requirement | 1st Semester | 2nd Semester | 3rd Semester | 4th Semester |
|-----------------|--|--------------------|----------------------|--------------|---------------------|--------------------|---------------|-----------------|----------------------------|---------------------|---------------------|---------------------|---------------------|
| IPM-22fRMEG | Research methodology L+Pr. | 1 | 2 | 0 | 2 | XPG | 5 | 1 | | 1+2+0+2 | | | |
| IPM-22fASTE | Advanced Software Technology L. | 2 | 0 | 0 | 2 | E | 4 | 1 | | 2+0+0+2 | | | |
| IPM-22fDAAE | Design and analysis of algorithms L. | 2 | 0 | 0 | 2 | E | 4 | 1 | | 2+0+0+2 | | | |
| IPM-22fPRG | Internship | | | | | | 0 | 2-4 | | | | | 240 hours |
| IPM-22fesxDAAG | Design and analysis of algorithms | 0 | 2 | 0 | 1 | PG | 3 | 1 | | 0+2+0+1 | | | |
| IPM-22fesxDAMSG | Preparation course for master studies and developing learning skills | 0 | 3 | 0 | 0 | PG | 2 | 1 | | 0+3+0+0 | | | |

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|-----------------------|------------------------------------|---|----------|---|-----------|-----------|---------------------------|----------|---------------------------|---------|-----------|-----------|---------------------------|------------------|
| IPM-22feszsALAB1 | Software Technology Lab I. | 0 | 0 | 4 | 1 | PG | 5 | 1 | | 0+0+4+1 | | | | |
| IPM-22feszsDDSE | Design of Distributed Systems | 2 | 0 | 0 | 1 | E | 3 | 2 | IPM-22feszsDDSG | | 2+0+0+1 | | | |
| IPM-22feszsDDSG | Design of Distributed Systems | 0 | 0 | 2 | 1 | PG | 3 | 2 | | | 0+0+2+1 | | | |
| IPM-22fipiPME | Project Management | 2 | 0 | 0 | 0 | E | 2 | 2 | | | 2+0+0+0 | | | |
| IPM-22feszsTPE | Theory of programming | 2 | 0 | 0 | 1 | E | 3 | 2 | IPM-22feszsTPG (week) | | 2+0+0+1 | | | |
| IPM-22feszsTPG | Theory of programming | 0 | 2 | 0 | 1 | PG | 3 | 2 | | | 0+2+0+1 | | | |
| IPM-22feszsFSE | Formal semantics | 2 | 0 | 0 | 1 | E | 3 | 3 | IPM-22feszsFSG (week) | | | 2+0+0+1 | | |
| IPM-22feszsFSG | Formal semantics | 0 | 2 | 0 | 1 | PG | 3 | 3 | | | | 0+2+0+1 | | |
| IPM-22feszsSQTE | Software quality and testing | 2 | 0 | 0 | 1 | E | 3 | 3 | IPM-22feszsSQTG (week) | | | 2+0+0+1 | | |
| IPM-22feszsSQTG | Software quality and testing | 0 | 0 | 2 | 1 | PG | 3 | 3 | | | | 0+0+2+1 | | |
| IPM-22feszsALAB2 | Software Technology Lab II. | 0 | 0 | 4 | 1 | PG | 5 | 4 | | | | | 0+0+4+1 | |
| | Compulsory credits | | | | | | 54 | | | | 23 | 14 | 12 | 5 |
| | Compulsory elective credits | | | | | | 30 | | | | 6 | 12 | 12 | |
| IPM-22fERASMUS | Erasmus mobility | | | | | | max 24 credits | 3 | | | | | max 24 credits | |
| | Elective credits | | | | | | 6 | 3 | | | | | 6+0+0 | |
| IPM-24fTHCONS | Thesis consultation | | 5 | | 10 | PG | 30 | 4 | | | | | | signature |

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|--|---------------------------------|--|--|--|--|--|------------|--|--|-----------|-----------|-----------|-----------|
| | Summa credit in semester | | | | | | | | | 29 | 26 | 30 | 35 |
| | Summa credit | | | | | | 120 | | | | | | |

Compulsory elective subjects

| Code | Subject | Lecture (L) | Practice (Pr) | Labor | Consultation | Requirement | Credit | Semester | Subject requirement | 1st Semester | 2nd Semester | 3rd Semester | 4th Semester |
|------------------|-----------------------------------|-------------|---------------|-------|--------------|-------------|--------|----------|---------------------------|--------------|--------------|--------------|--------------|
| IPM-22fesziDSEG | Introduction to Data Science | 2 | 0 | 2 | 2 | XE | 6 | 1 | | 2+0+2+2 | | | |
| IPM-22fesziAJPE | Advanced Java programming | 2 | 0 | 0 | 1 | E | 3 | 2 | IPM-22fesziAJPG (weak) | | 2+0+0+1 | | |
| IPM-22fesziAJPG | Advanced Java programming | 0 | 0 | 2 | 1 | PG | 3 | 2 | | | 0+0+2+1 | | |
| IPM-22fesziAAE | Advanced Algorithms | 2 | 0 | 0 | 1 | E | 3 | 2 | IPM-22fesziAAG (weak) | | 2+0+0+1 | | |
| IPM-22fesziAAG | Advanced Algorithms | 0 | 2 | 0 | 1 | PG | 3 | 2 | | | 0+2+0+1 | | |
| IPM-22fesziADSEG | Analysis of distributed systems | 2 | 2 | 0 | 2 | XPG | 6 | 2 | | | 2+2+0+2 | | |
| IPM-22fesziICSE | Introduction to Computer Security | 2 | 0 | 0 | 1 | E | 3 | 2 | IPM-22fesziICSG (weak) | | 2+0+0+1 | | |

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|------------------|---------------------------------------|---|---|---|---|----|---|---|---------------------------|--|---------|---------|--|
| IPM-22fesziCSG | Introduction to Computer Security | 0 | 0 | 2 | 1 | PG | 3 | 2 | | | 0+0+2+1 | | |
| IPM-22feszMCE | <i>Models of Computation***</i> | 2 | 0 | 0 | 0 | E | 2 | 2 | IPM-22feszMCG (weak) | | 2+0+0+0 | | |
| IPM-22feszMCG | <i>Models of Computation***</i> | 0 | 2 | 0 | 1 | PG | 3 | 2 | | | 0+2+0+1 | | |
| IPM-22feszMCEG | Models of Computation | 2 | 2 | 0 | 1 | XE | 5 | 2 | | | 2+2+0+1 | | |
| IPM-22feszMTAIEG | Methods and tools for AI applications | 2 | 0 | 2 | 2 | XE | 6 | 2 | | | 2+0+2+2 | | |
| IPM-22feszPAIEG | Principles of artificial intelligence | 2 | 0 | 2 | 2 | XE | 6 | 2 | | | 2+0+2+2 | | |
| IPM-22feszSEAPE | Scalable enterprise applications | 2 | 0 | 0 | 1 | E | 3 | 2 | IPM-22feszSEAPG (weak) | | 2+0+0+1 | | |
| IPM-22feszSEAPG | Scalable enterprise applications | 0 | 0 | 2 | 1 | PG | 3 | 2 | | | 0+0+2+1 | | |
| IPM-22feszCISE | Complex information systems | 2 | 0 | 0 | 1 | E | 3 | 3 | IPM-22feszCISG (weak) | | | 2+0+0+1 | |
| IPM-22feszCISG | Complex information systems | 0 | 0 | 2 | 1 | PG | 3 | 3 | | | | 0+0+2+1 | |
| IPM-22feszFUNLEG | Functional Languages | 2 | 0 | 2 | 2 | XE | 6 | 3 | | | | 2+0+2+2 | |
| IPM-22feszMLEG | Machine Learning | 2 | 0 | 2 | 2 | XE | 6 | 3 | IPM-22feszIDSEG | | | 2+0+2+2 | |
| IPM-22feszSESCE | Service Science | 2 | 0 | 0 | 1 | E | 3 | 3 | IPM-22feszSESCG (weak) | | | 2+0+0+1 | |
| IPM-22feszSESCG | Service Science | 0 | 2 | 0 | 1 | PG | 3 | 3 | | | | 0+2+0+1 | |

PG: Practice Grade E: Exam Grade XPG: Lecture+Practice with Practical Grade XE: Lecture+Practice with Exam

***** Discontinued subject**