

ISMA Course Catalogue 2016/2017 for International Students (*degree and Erasmus+*)

Information Systems (last update 07.12.2015)

Please note the catalogue`s purpose is informative only. Some subject`s names, ECTS and codes may be changed during the study year. Some subjects may be moved from one semester to another. Some lectures could be cancelled due to insufficient amount of students in group.

X¹ These subjects may be delivered on a base of lecturer`s consultations and student`s self-studies if the group amount will be insufficient. In this case times of consultations will be announced, according tasks and literature will be provided and obtained knowledge will be examined by the teacher at the end of the course.

X² Language courses are delivered on a language of study. Please do not take more than **1** same language course per semester.

X³ The course is delivered in English only in a joined group

Orientation meeting with ISMA coordinator is compulsory.

ISMA will inform the student about possible changes and according alternatives will be offered.

Changes in Learning Agreement will be done then.

ISMA International Relations department international@isma.lv and erasmus@isma.lv

| Semester | Course Code | Course Name ENG | LAT | RUS | ENG | ECTS |
|----------|-------------|--|--|-----|-----|------|
| | | | The course is available on following languages | | | |
| 1, 2 | | Latvian language* <i>Additional course could be delivered both semesters if minimum 5 students applied. Price 35 EUR/month, certificate apart from Learning Agreement will be issued.</i> | | | X | 1 |

| | | | | | | |
|------|---------------------------------|---|----------------|----------------|----------------|-----------|
| 1, 2 | | Russian language* <i>Additional course could be delivered both semesters if minimum 5 students applied. Price 35 EUR/month, certificate apart from Learning Agreement will be issued.</i> | | | X | 1 |
| 1 | IN0622 | Software | X | X | X ¹ | 6 |
| 1 | IN0627 | Mathematical Modelling | X | X | X ¹ | 6 |
| 1 | HU0236 | Entrepreneurship Legal Regulation | X | X | X ¹ | 6 |
| 1 | EK0150 | Economics* <i>(this semester the block includes Microeconomics course)</i> | X | X | X | 3 |
| 1 | MA0326 | Mathematics | X | X | X ¹ | 3 |
| 1 | VA0401 German VA0402 Spanish | Second foreign language*: Spanish or German <i>(*Please choose 1 language with indication of your knowledge A1 A2 B1 B2)</i> | X ² | X ² | X ² | 3 |
| 1 | VA2005 | Business English | X | X | X | 3 |
| | | TOTAL ECTS per semester: | | | | 30 |
| 2 | EK0150 | Economics* <i>(this semester the block includes Macroeconomics course)</i> | X | X | X | 3 |
| 2 | MA0326 | Mathematics | X | X | X ¹ | 3 |
| 2 | VA2005 | Business English | X | X | X | 3 |
| 2 | VA0401 German VA0402 Spanish | Second foreign language*: Spanish or German <i>(*Please choose 1 language with indication of your knowledge A1 A2 B1 B2)</i> | X ² | X ² | X ² | 3 |
| 2 | IN0620 | Computer Modelling and Computer Graphics Algorithm | X | X | X ¹ | 6 |
| 2 | HU0201 | Thinking Ordering | X | X | X ¹ | 6 |
| 2 | SD0001 | Course Paper 1* <i>(Consists both of in-class meetings with a tutor where the problem of a research is defined and individual work to investigate the ways of problem solving and to elaborate proposals. At the end of the course the project is defended in a class.)</i> | X | X | X | 6 |

| | | | | | | |
|---|--------|--|----------------|----------------|----------------|-----------|
| | | <i>TOTAL ECTS per semester:</i> | | | | 30 |
| 3 | MA0305 | Statistics | X | X | X | 6 |
| 3 | EK0102 | Entrepreneurship | X | X | X | 6 |
| 3 | DA0520 | Physics | X | X | X ¹ | 6 |
| 3 | IN0606 | Mathematical Methods | X | X | X ¹ | 6 |
| 3 | HU0218 | Applied Communications | X ³ | X ³ | X ³ | 6 |
| | | <i>TOTAL ECTS per semester:</i> | | | | 30 |
| 4 | IN1000 | Algorithms and Data Structures | X | X | X ¹ | 6 |
| 4 | IN0604 | Programming | X | X | X ¹ | 6 |
| 4 | SD0002 | Course Paper 2* <i>(Consists both of in-class meetings with a tutor where the problem of a research is defined and individual work to investigate the ways of problem solving and to elaborate proposals. At the end of the course the project is defended in a class.)</i> | X | X | X | 6 |
| 4 | PR0004 | Practice 1* <i>(this course includes internship in a company. For international students is only on preliminary request. For practice in Latvia requires Latvian language knowledge as a must). For Erasmus+ separate Learning Agreement for Traineeships must be signed.</i> | X | X | X ¹ | 12 |
| | | <i>TOTAL ECTS per semester:</i> | | | | 30 |
| 5 | IN0605 | Computer Modelling in Business | X | X | X ¹ | 6 |
| 5 | ME0710 | Total Quality Management | X | X | X ¹ | 6 |
| 5 | ME0708 | Project Management | X | X | X ¹ | 6 |
| 5 | IN0679 | Systems and Object- oriented Programming | X | X | X ¹ | 6 |
| 5 | IN0680 | Computer Networks Architecture and Operating Systems | X | X | X ¹ | 6 |
| | | <i>TOTAL ECTS per semester:</i> | | | | 30 |
| 6 | IN0681 | Data Bases, Computer Networks and Telecommunications | X | X | Upon request | 6 |

| | | | | | | |
|---|--------|---|---|---|----------------|-----------|
| 6 | IN0682 | System Theory and System Analysis | X | X | X ¹ | 6 |
| 6 | SD0003 | Course Paper 2* (Consists both of in-class meetings with a tutor where the problem of a research is defined and individual work to investigate the ways of problem solving and to elaborate proposals. At the end of the course the project is defended in a class.) | X | X | X | 6 |
| 6 | PR0006 | Practice 2* (this course includes internship in a company. For international students is only on preliminary request . For practice in Latvia requires Latvian language knowledge as a must). For Erasmus+ separate Learning Agreement for Traineeships must be signed. | X | X | X ¹ | 6 |
| 6 | DA0521 | Electronics | X | X | X ¹ | 6 |
| | | TOTAL ECTS per semester: | | | | 30 |
| 7 | HU0237 | Environmental Safety Management | X | X | X ¹ | 6 |
| 7 | IN0621 | Artificial Intelligence | X | X | X ¹ | 6 |
| 7 | IN1004 | Information Protection, Reliability and Cryptography | X | X | X ¹ | 6 |
| 7 | MA0316 | Optimization Theory and Scientific Prognosis | X | X | - | 6 |
| 7 | IN0648 | Software Engineering and Technologies of Information Systems Design | X | X | X ¹ | 6 |
| | | TOTAL ECTS per semester: | | | | 30 |
| 8 | VE0001 | State Examination | X | X | X | 0 |
| 8 | VE0003 | Qualifying Examination in English | X | X | X | 0 |
| 8 | PR0008 | Pre-Diploma Practical Training* <i>*(for degree students only!)</i> | X | X | X | 12 |
| 8 | BD0001 | Bachelor`s Thesis* <i>*(for degree students only!)</i> | X | X | X | 18 |