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| ***COMPULSORY PART (A)*** | | |
| **Course title** | **Credit points** | **ECTS credits** |
| Introduction to Computer Science I,II | 5 | 7,5 |
| Programming I,II | 6 | 9 |
| Algorithms and Data Structures I,II | 4 | 6 |
| Mathematical analysis I,II | 6 | 9 |
| Linear algebra and analyticgeometry I,II,III | 6 | 9 |
| Discrete mathematics | 6 | 9 |
| Mathematical logic | 1 | 1,5 |
| Object-oriented programming | 2 | 3 |
| Object-oriented analysis and modelling | 2 | 3 |
| Databases technologies I,II | 6 | 9 |
| Software Project management | 2 | 3 |
| IS analysis and design | 4 | 6 |
| Software testing and quality | 2 | 3 |
| Computer architecture | 4 | 6 |
| Differential equations | 2 | 3 |
| Probabilities and mathematical statistics I,II | 4 | 6 |
| Internet technologies | 4 | 6 |
| Local computer networks | 4 | 6 |
| Operating systems | 2 | 3 |
| Programming languages | 2 | 3 |
| Computing methods | 4 | 6 |
| Methodology of researches | 2 | 3 |
| Annual Project (Software Development) | 2 | 3 |
| Annual Project (Databases) | 2 | 3 |
| Latvian language for international students I, II | 8 | 12 |
| ***B-PART-RESTRICTED OPTION*** | | |
| English I,II | 6 | 9 |
| Computer Graphics and Animation | 2 | 3 |
| Non-Linear Computer-Based Video Montage | 2 | 3 |
| Multimedia systems | 2 | 3 |
| Physics I, II | 4 | 6 |
| E- business systems | 2 | 3 |
| Economics | 2 | 3 |
| Artificial intelligence | 2 | 3 |
| Differential Equations in Models | 2 | 3 |
| System Modeling and Simulation | 2 | 3 |
| Numerical Analysis | 2 | 3 |
| ***ELECTIVE PART (C)*** | | |
| Students' free choice | 4 | 6 |
| ***STATE EXAMINATIONS*** | | |
| Bachelor Thesis | 10 | 15 |