



## Double-diploma program in Software Engineering University of Latvia and Blekinge Institute of Technology

The double-diploma agreement between University of Latvia (LU) and the Blekinge Institute of Technology (BTH) in Sweden has been active since 2008. The agreement enables mobility for Master students studying Software Engineering and Computer Science in the Computing program. On successful completion of the program, the students will receive graduation diplomas from both universities. The students enrolled in the new program have a possibility to apply to two types of mobility paths:

**I path** for those applying until July 14, students receive an opportunity to compete for the full year Erasmus scholarships and spend the 1st year at BTH and the 2nd year at LU.

**II path** for those applying later, students have an opportunity to compete for half-year Erasmus scholarships and spend fall semester in their 1st year at LU, then move to BTH where they spend spring semester in the 1st year and fall semester in the 2nd year, and return for their master thesis to LU, in the 2nd year.

**Study programs:** students enrolled in the program shall follow a special study plan.

### Software Engineering program

Fall semester at BTH	Fall semester at LU
<ul style="list-style-type: none"><li>• Advanced Software Project Management (6)</li><li>• Practical Requirements Engineering (6)</li><li>• Software Architecture and Quality (6)</li><li>• Applied Software Project Management (6)</li></ul>	<ul style="list-style-type: none"><li>• Sistēmu modelēšana (4)</li><li>• Modernās programmēšanas tehnoloģijas (4)</li><li>• Sistēmu projektēšana (4)</li><li>• Tīmekļa programmēšana (4)</li><li>• Ātru algoritmu konstruēšana un analīze (4)</li></ul>
Spring semester at BTH	Spring semester at LU
<ul style="list-style-type: none"><li>• Research Methodology in SE (6)</li><li>• Verification and Validation (6)</li><li>• Optional courses (12)<ul style="list-style-type: none"><li>○ Software Metrics (6)</li><li>○ Advanced Topic in Software Engineering (6)</li><li>○ Server Architecture (Elective)</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Maģistra darbs</li></ul>

### Computer Science program

Fall semester at BTH	Fall semester at LU
<ul style="list-style-type: none"><li>• Advanced Software Project Management (6)</li><li>• Applied Artificial Intelligence (6)</li><li>• Intelligent Decision Support Systems (6)</li><li>• Optional course (6)<ul style="list-style-type: none"><li>○ Introduction to Computer Security (6)</li><li>○ Software Architectures and Quality (6)</li><li>○ Linear Algebra (6)</li><li>○ Calculus 1 (6)</li><li>○ Performance Optimization (6)</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Sistēmu modelēšana (4)</li><li>• Modernās programmēšanas tehnoloģijas (4)</li><li>• Ātru algoritmu konstruēšana un analīze (4)</li><li>• Izvēles kursi (4):<ul style="list-style-type: none"><li>○ Specifikāciju valodas (4)</li><li>○ Grafu teorija (2)</li><li>○ Automāti, algoritmi un formālās valodas I (2)</li><li>○ Spēļu teorija (2)</li></ul></li></ul>
Spring semester at BTH	Spring semester at LU
<ul style="list-style-type: none"><li>• Research Methodology (6)</li><li>• Advanced Topic in Computing (6)</li><li>• Optional course (12)<ul style="list-style-type: none"><li>○ Agent Systems (6)</li><li>○ Optimization Techniques (6)</li><li>○ Software Verification and Validation (6)</li><li>○ Server Architectures (6)</li><li>○ Software Security (6)</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Maģistra darbs</li></ul>



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### **Fees & Support**

Education at BTH for Latvian students is free of charge. Students eligible for Erasmus exchange may apply for Erasmus mobility grants for full year (in path I) or the spring or the fall semester spent in Sweden (in path II). In the latter case, the second semester shall be covered from personal funds.

### **How to apply**

Students graduating from Bachelor program with average grade no less than 7 and good English language skills qualify for the mobility program. The following language proficiency certificates are recognized: *TOEFL 575/90; IELTS 6.5 no section below 5.5, University of Cambridge and Oxford tests*. When applying for master studies inform the secretariat about your willingness to enroll in "BTH/LU DD program", and provide transcripts of your records and English proficiency test results. If no certificates are provided, an oral examination may be organized to test the language skills.

Your applications will be reviewed by both universities.

**Deadline for Path I:** send your application by July 14 to [Darja.Smite@lu.lv](mailto:Darja.Smite@lu.lv)

**Deadline for Path II:** send your application by September 15 to [Darja.Smite@lu.lv](mailto:Darja.Smite@lu.lv)

For more information read exchange students' blog — <http://datfak.lv/>