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## Study Programme Description

<b>Name of the study programme in English</b>	Programming Specialist
<b>Name of the study programme in Latvian</b>	Programmēšanas speciālists
<b>Level of the study programme</b>	First level higher education
<b>Study time</b>	2 years (4 semesters)
<b>KP</b>	80 KP (120 ECTS)
<b>Qualification</b>	Programmer
<b>Professional qualification level</b>	4
<b>Type of the study programme</b>	Full time studies
<b>Education requirement</b>	General secondary or vocational education
<b>International tests and entrance examinations</b>	<ul style="list-style-type: none"><li>• Exam in English<sup>1</sup></li><li>• Exam in math</li></ul>
<b>Tuition fee</b>	2270 EUR per year <sup>2</sup>
<b>State funded places</b>	Available <sup>3</sup>

<sup>1</sup> if the applicant has not passed English language test of an international testing institution

<sup>2</sup>The tuition fee may be paid in two equal instalments, except for the first study year, which requires the tuition fee to be paid in full.

<sup>3</sup> Only available to Applicants who are citizens of EU/EEA countries.

## Study-aim

The aim of the study program is to prepare specialists according to Latvian 4th Professional Qualification level and the 5th level of European Qualifications Framework (EQF) - programmer, providing the necessary knowledge and skills related to software development that would allow to successfully integrate specialist into the labour market and to adapt independently to changing requirements of the labour markets.

## Study-Tasks

- to provide students with the conditions and opportunities to get the first level professional higher education accordingly programmer profession standard in accordance with labour market requirements;
- to provide students with the necessary practical knowledge in programming languages, technologies and patterns;
- to promote satisfaction of students' self-education needs and to them involvement in continuing education and training;
- to encourage students to engage in solving practical and scientific problems, create motivation for raising level of qualification;
- to teach students to independently learn, evaluate and use the latest achievements of the programming;
- to ensure that study process corresponds to the current requirements of labour market and provides highly qualified academic staff;
- to ensure that study environment promotes creativity.

## Study programme content

No.	Title	ECTS
<b>General study courses</b>		<b>30</b>
1	Mathematics for Programmers	12
2	English for Programming - C part	3
3	Security of Information systems	3
4	Communication and Professional Ethics	3
5	Business and Economics	3
6	Basics of IT industry rules & regulations & standards	3
7	IT project management	3
8	Fundamentals of the Latvian Language	3
<b>Field related study courses</b>		<b>54</b>
<b>Compulsory selection part</b>		<b>24</b>
9	Data Structures and Algorithms(JAVA)	3
10	Database	6
11	Fundamentals of JAVA Programming	6
12	JAVA Programming	3
13	Software Design Patterns	6
<b>Courses for a particular profession</b>		<b>27</b>
14	Software engineering	9
15	Web page programming	6
16	Development operations tools	3
17	Software testing and debugging technologies and principles	3
18	Embedded Systems	6
<b>Optional courses</b>		<b>3</b>
19	Software Architecture Design	3
20	Internet and computer networks	3
21	UNIX like system administration	3
22	Parallel computing	3
<b>Internship</b>		<b>24</b>
23	Internship	24
<b>Qualification paper</b>		<b>12</b>
24	Qualification paper	12
<b>Total</b>		<b>120</b>

## Study plan

No.	Title in English	Title in Latvian	ECTS	Semeter				Form of evaluation
				I	II	III	IV	
<b>General study courses</b>			<b>30</b>					
1	Mathematics for Programmers	Matemātika programmētājiem	12	12				Examination
2	English for Programming - C part (2 KP)	Angļu valoda - C daļas kurss	3					Examination
3	Security of Information systems	Informācijas sistēmu drošība	3			3		Examination
4	Communication and Professional Ethics	Saskarsme un profesionālā ētika	3		3			Examination
5	Business and Economics	Ekonomika un komercdarbība	3		3			Examination
6	Basics of IT industry rules & regulations & standards	IT nozares tiesību pamati un standarti	3		3			Examination
7	IT project management	IT projektu vadīšana	3	3				Test
8	Fundamentals of the Latvian Language	Latviešu valodas pamati			3			Test
<b>Field related study courses</b>			<b>54</b>					
<b>Compulsory selection part</b>			<b>24</b>					
9	Data Structures and Algorithms(JAVA)	Datu struktūras un algoritmi (JAVA)	3	3				Examination
10	Database	Datubāzes	6	3	3			examination
11	Fundamentals of JAVA Programming	Programmēšanas pamati JAVA (BLOKĀ 1 mēnesis)	6	6				Examination
12	JAVA Programming	Programmēšana JAVA	3	3				Examination
13	Software Design Patterns	Programmatūras izstrādes šabloni	6		3	3		examination
<b>Courses for a particular profession</b>			<b>27</b>					
14	Software engineering	Programmatūras inženierija	9		3	6		The 2nd semester - test, the 3rd semester - examination
15	Web page programming	WEB aplikāciju izstrāde	6		6			Examination

16	Development operations tools	Rīki programmatūras risinājumu nodrošināšanai	3			3		Test
17	Software testing and debugging technologies and principles	Programmatūras testēšana un atklūdošanas tehnoloģijas un principi	3		3			Examination
18	Embedded systems	legultās lietojumprogrammas	6			6		Examination
<b>Optional courses</b>			<b>12</b>					
19	Software Architecture Design	Programmatūras arhitektūras projektēšana	3			3		Examination
20	Internet and computer networks	Interneta un datortīklatehnoloģijas	3			3		Examination
21	UNIX like system administration	UNIX sistēmu administrēšana	3			3		Examination
22	Parallel computing	Paralēlā programmēšana	3			3		Examination
<b>Internship</b>			<b>24</b>				<b>Defence</b>	
23	Internship	Prakse	<b>24</b>			6	18	
<b>Qualification paper</b>			<b>8</b>				<b>Defence</b>	
24	Qualification paper	Kvalifikācijas darbs	<b>12</b>				12	
<b>Total</b>			<b>120</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	

## How to apply

The candidate must complete the online application form <http://application.venta.lv/> and attach the following documents:

- **Documents of Secondary or Higher education.** The average grade should be at least 60%. Original documents in English, German, French or Russian may be submitted. All other languages must be translated into English. Translations need to be notary attested and certified.
- **IELTS (6.0 and over), TOEFL (PBT) 550 or (IBT) 70, London Language Test or Longman Language Test.** If the candidate has not passed an international English language test, the candidate ought to pass VUAS online English language test (achieving at least 60%) free of charge.
- **Curriculum Vitae** (resume);
- **A copy of the applicant's passport** (including a note "Submitted for use by Ventspils University of Applied Sciences", date and time);
- **One photo** 3 cm x 4 cm (JPEG format, not as a PDF)

Upon completing the online application form, the candidate should send a confirmation email to [international@venta.lv](mailto:international@venta.lv) before the application deadlines and confirm his/her willingness to pursue studies at Ventspils University of Applied Sciences.

More information: <https://venta.lv/en/>

## Contacts

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