

**FACULTY OF COMPUTER SCIENCE AND
INFORMATION TECHNOLOGY
COMPUTER SYSTEMS (Bachelor)**

**STUDY PROGRAM
(international students)**

Profile:	Computer Systems
Study program:	Bachelor
Duration of studies	3 years
Number of credits:	121 Credit Point (CP) or 181ECTS
Previous education:	Secondary education
Qualification:	Bachelor of Engineering Sciences in Computer Control and Computer Science

		RTU program code	ADBD0
A.	COMPULSORY COURSES	82 CP	
1. DDM101	Mathematics		9 CP
2. DIM204	Discrete Mathematics		2 CP
3. DMS212	Probability Theory and Mathematical Statistics		2 CP
4. MFZ101	Physics		6 CP
5. ҚVҚ109	General Chemistry		2 CP
6. DIP106	Algorithmization and Programming of Solutions		5 CP
7. ICA301	Civil Defence		1 CP
8. EEE226	Electrical Engineering and Electronics		2 CP
9. HFL118	Models of Social Development		2 CP
10. DAA300	Fundamentals of Computer Graphics and Image Processing		2 CP
11. DSP202	Discrete Structures of Computer Science		3 CP
12. DIP203	Data Structures		3 CP
13. DIP208	Programming Languages		2 CP
14. DMS214	Random Processes		2 CP
15. DSP201	Database Management Systems		4 CP
16. DPI230	Object Oriented Programming		3 CP
17. DOP201	Introduction to Operation Research		3 CP
18. DMI201	Basic of Computer Simulation and Modelling		3 CP
19. DST203	Introduction to Computer Architecture		3 CP
20. DOP204	Numerical Methods		2 CP
21. DIP381	Operating Systems		3 CP
22. DOP319	Computer Networks		3 CP
23. DSP332	Fundamentals of Artificial Intelligence		3 CP
24. DAI241	Fundamentals of Automation		2 CP
25. DIP217	Applied Software		2 CP
26. DPI343	Computer Organization and Assembly Language		3 CP
27. DSP303	Technology of Large Databases		2 CP
28. DIP383	Software Engineering		2 CP
29. DSP105	Introduction to Study Field		1 CP
30. HFA101	Sport Activity		0.0
B.	LIMITED CHOICE	25 CP	
B.1.	Specialized courses	17 CP	
1.1. DIP320	Adaptive Data Processing Systems		2 CP
1.2. DIP330	Functional Programming		2 CP
1.3. DSP342	Methods of Systems Theory		2 CP
1.4. DSP347	System Engineering		2 CP
1.5. DPI349	Software Evolution Technologies		3 CP
1.6. DPI371	Object-Oriented System Analysis and Design		3 CP
1.7. DIP321	Algorithms and Methods of Programming		2 CP
1.8. DPI348	Introduction to Applied Computer Science		2 CP

1.9. DSP341	Fundamentals of Computer Systems Design		2 CP
1.10. DIP392	Applied System Software		2 CP
1.11. DSP344	Systems Analysis and Knowledge Acquisition		2 CP
1.12. IUV201	Management Theory		2 CP
1.13. IRO202	Organization of Management in Enterprise		2 CP
1.14. IUE217	Business Economics		2 CP
1.15. IUE326	Economics and Planning of Small Business		2 CP
1.16. IBO319	Business and Investments		2 CP
1.17. IUE206	Business Economics and Fundamentals of Marketing		2 CP
B.2.	Humanities and social sciences	4 CP	
2.1. HSP377	General Sociology		2 CP
2.2. HSP375	Sociology of Management		2 CP
2.3. HSP376	Sociology of Personalities and Small Groups		2 CP
2.4. HSP378	Politology		2 CP
2.5. HSP379	Political System of Latvia		2 CP
2.6. HFL337	History and Culture of Latvia		2 CP
B.6.	Languages	3 CP	
6.1. VIL168	Latvian Language		
C.	FREE CHOICE COURSES	4CP	
E.	FINAL EXAMINATION	10 CP	
1. DIP001	Bachelor Thesis		10 CP
2. DPI001	Bachelor Thesis		10 CP
3. DSP001	Bachelor Thesis		10 CP
	TOTAL:	120 CP	