

Institution  
 Faculty, department  
 Study programme, code of study programme  
 Study credits and study form  
 Admission  
 Chairperson of the Study Programme Committee

**Alytaus kolegija**  
 Faculty of Information and Communication Technologies,  
**Department of Information Systems**  
 Information Systems Technologies, 6531BX001  
 180, full-time (3 years)  
 Start to study 2021  
 Lecturer of Department of Information Technologies Rasa  
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## FULL-TIME STUDY PLAN

SUBJECT	CREDITS
<b>FIRST-YEAR</b>	<b>60</b>
<b>SEMESTER 1</b>	<b>30</b>
<b>General Subjects of College Studies</b>	
Foreign Language (English)	6
<b>Compulsory Subjects</b>	
Computer Architecture	3
Applied Mathematics	6
Operating Systems	3
Basics of Programming	6
Databases	6
<b>SEMESTER 2</b>	<b>30</b>
<b>Compulsory Subjects</b>	
Physics and Electrical Engineering	6
Computer Networks	6
Objecting – Oriented Programming	6
Numerical methods and Discrete mathematics	3
Internet technologies	6
Low Current Networks	3
<b>SECOND-YEAR</b>	<b>60</b>
<b>SEMESTER 3</b>	<b>30</b>
<b>Compulsory Subjects</b>	
Analysis of Data Structures and Algorithms	6
Computerized Data Management	3
Data Analysis	3
Application Programs	6
Computer Systems	6
Systems Administration and Technical Support	6
<b>SEMESTER 4</b>	<b>30</b>
<b>Compulsory Subjects</b>	
Fundamentals of Business	3
Computer Systems Programming*	6
Information and IT Security	3
Human – Computer Interaction	3
Software Engineering	6
<b>Practical training</b>	
Cognitive Practice in the Company	6
<b>Alternative Subjects 1**</b>	3
<b>THIRD-YEAR</b>	<b>60</b>
<b>SEMESTER 5</b>	<b>30</b>
<b>General Subjects of College Studies</b>	
Environmental and Health Safety	3
<b>Compulsory Subjects</b>	
Data Storage and Servers	6
<b>Practical training</b>	
Training in Professional Skills	6
<b>Alternative Subjects 2**</b>	3
<b>Optional subjects (2 subjects are chosen, 1 of them ends with a course project)</b>	
Programming PHP	6
Development of Information Systems in Frameworks	6
Interactive Internet Technologies	6
Web Design	6

Basics of DevOps	6
Basics of Developing Secure Systems	6
Robotics	6
Programming in Python	6
Business Information Systems	6

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**SEMESTER 6**

**30**

**Practical training**

Speciality Final Practical Training

18

**Final Thesis**

12

\* – Course Project

\*\* – List of Alternative Subjects [www.akolegija.lt](http://www.akolegija.lt)