

Table 5.2 Subject specification

**OLD STUDY PROGRAM
OAS INFORMATION TECHNOLOGY**

No.	Subject code	Course name	Semester	Lectures	Practical exercises	ECTS
FIRST YEAR						
1	I1121	Mathematics 1	1	3	3	7
2	I1122	Fundamentals of Computer Engineering	1	2	2	6
3	I1123	Fundamentals of Electrical Engineering and Electronics	1	3	2	7
4	I1124	English Language1	1	1	1	3
5	I1125	obj	1	3	2	7
6	I1211	English Language 2	2	1	1	3
7	I1212	Mathematics 2	2	3	2	7
8	I1213	Introduction to Web	2	3	2	7
9	I1121	Data Structures and Algorithms	2	2	2	6
10	I1122	Architecture and Organization of Computer Systems	2	3	3	7
Total number of active teaching hours				24	20	
Annual number of teaching hours				360	300	
Total ECTS						60
SECOND YEAR						
11	I1123	Discrete Mathematics	3	3	2	7
12	I1124	Object Oriented Programming	3	3	3	8
13	I1125	Computer Networks	3	3	3	8
14	Block 1	Elective block 1	3	3	2	7
1	I1214	Digital Electronics				
2	I1215	Internet Technologies				
15	I1221	Databases	4	3	3	8
16	I1222	Operating Systems	4	3	3	8
17	I1223	Numerical Mathematics	4	3	2	7
18	Block 2	Elective block 2	4	3	2	7
3	I1224	Digital Signal Processing				
4	I1225	Computer Systems Security and Protection				
Total number of active teaching hours				24	20	
Annual number of teaching hours				360	300	
Total ECTS						60
THIRD YEAR						
19	I1311	Object Oriented Modelling	5	3	3	8
20	I1312	Intelligent Systems	5	3	2	7
21	I1313	Web Applications Development and Web Design	5	3	3	8
22	Block 3	Elective block 3	5	3	2	7

5	I1314	Computer Telecommunications				
6	I1315	Video Production				
7	I1316	Telecommunication Systems and Networks				
23	I1321	Computer Graphics	6	3	3	8
24	I1322	Parallel Programing	6	3	3	8
25	I1323	Information theory and Coding	6	3	2	7
26	Block 4	Elective block 4	6	3	2	7
8	I1324	Electronic Commerce				
9	I1325	Business Law				
Total number of active teaching hours				24	20	60
Annual number of teaching hours				360	300	
Total ECTS						
FOURTH YEAR						
27	I1411	Software Engineering	7	3	3	8
28	Block 5	Elective block 5	7	3	3	8
10	I1412	Information Systems Design				
11	I1413	Information Systems in Manufacturing Industry and Services				
12	I1414	3D Modelling and Animation				
29	Block 6	Elective block 6	7	3	2	7
13	I1415	Security in E-Business Systems				
14	I1416	Computer Tools				
30	Блок 7	Elective block 7	7	3	2	7
15	I1417	Biomedical Signal Processing				
16	I1418	Operations Research				
17	I1419	Fundamentals of Design Practicum				
31	I1421	Multimedia	8	3	2	7
32	Блок 8	Elective block 8	8	2	1	4
18	I1422	Global Information Systems				
19	I1423	Business Information Systems				
33	Блок 9	Elective block 9	8	3	2	7
20	I1424	Internet Application Programming				
21	I1425	Software Development				
34	I1426	Internship	8			4
35	I1427	Final paper	8			8
Total number of active teaching hours and ECTS				20	15	60
Annual number of active teaching hours				300	225	
Total number of active teaching hours for the study program				1380	1125	
Total				2505		
Total ECTS credits						240