

DSIT Program Requirements by Category:

I. University Requirements (14 Credits):

Course No.	Course Name	Credits
1800070	History of Jerusalem	2
1800071	Palestine: Nature and Environment	2
1800072	Language and Logic	2
1800002	Low-Intermediate English	2
1800003	Intermediate English	2
1800004	Upper-Intermediate English	2
1800010	Advanced English	2
Total Credits		14

Table 9: University Requirements

II. Dual Studies College Requirements (10 Credits):

Course No.	Course Name	Credits
1800001	Basics of Business Administration	2
1800005	German I	2
1800006	German II	2
1800011	Entrepreneurship	2
1800012	Communication Skills	2
Total Credits		10

Table 10: Dual Studies College Requirements

II. DSIT Specialization (Mandatory) Requirements (114 Credits):

Course No.	Course Name	Credits
1820103	Mathematics I	3
1820101	Introduction to Computer Science	3
1820102	Fundamentals of Programming	3
1820104	Mathematics II	3
1820108	Introduction to Networks	2
1820109	Software Engineering	3
1820203	Data Structures & Algorithms I	3
1820204	Information Systems	2
1820205	Object-Oriented Programming	3
1820206	Introduction to Research Methods	1
1820207	Computer Organization & Architecture	2
1820208	Data Structures & Algorithms II	3
1820209	Statistics and Probability	2
1820210	Operating Systems	3
1820211	IT Project Management	2
1820302	Human-Computer Interaction	3
1820303	Database I	3
1820304	Mobile and Web Development	3
1820305	Information Ethics	2
1820306	Compiler Design and Language Processing	3
1820307	Database II	2
1820308	Computer Graphics and Image Processing	2
1820402	Knowledge Systems	3

1820403	Software Quality Control	3
1820401	Special Topics	3
1820407	Parallel & Distributed Computing	3
1820480	Project Study I	3
1820481	Project Study II	3
1820190	Practice I	5
1820191	Practice II	5
1820290	Practice III	5
1820291	Practice IV	5
1820390	Practice V	5
1820391	Practice VI	5
1820490	Practice VII - Graduation Project I	5
1820491	Practice VIII - Graduation Project II	5
Total Credits		114

Table 11: DSIT Specialization (Mandatory) Requirements

IV. DSIT Specialization (Elective) Requirements (2 Credits):

The student should choose **one** of the following courses (which are labelled as 1820XXX DSIT Elective in the rest of the tables)

Course No.	Course Name	Credits
1820260	Serious Gaming Fundamentals	2
1820450	Automata Theory	2
1820451	Secure Software Development	2
Total Credits		2

Table 12: DSIT Specialization (Elective) Requirements

Total Credits: 14 + 10 + 114 + 2 = 140 Credit Hours.

Execution Plan and Course Distribution

The Dual Studies IT combines academic learning with the direct application and expansion of knowledge in professional practice. A Dual Study student will spend an essential part of his study time (approximately 50%) in a training company and the rest at the University.

The Dual Study IT B.Sc. degree program lasts four years. The year is divided in 2 semesters of 24 weeks and 4 weeks leave:

- 2 Semesters per year , each 24 weeks
- each semester (24 weeks) consists of 12 weeks theory and 12 weeks practice (4 quarters)
- 4 weeks leave (only taken in practice periods)

The students will generally change every 3 months between the two places of learning. However, the two partners can arrange within one academic year the periods also in different ways. Therefore, it may be an advantage if the last two theoretical phases follow each other very soon – only with a short break-. The two practice phases of 4th year are then at the end of the study time and allow them enough time for the graduation project and a smooth transition into the professional career.

1st Year of Study		Credits			
		Semester 1		Semester 2	
Total credits per year	35				
Course	Course Code	Theory	Practice	Theory	Practice
Communication Skills	1800012	2			
Low-Intermediate English	1800002	2			

Mathematics I	1820103	3			
Introduction to Computer Science	1820101	3			
Fundamentals of Programming	1820102	3			
Practice I	1820190		5		
Intermediate English	1800003			2	

Mathematics II	1820104			3	
Introduction to Networks	1820108			2	
Software Engineering	1820109			3	
Basics of Business Administration	1800001			2	
Practice II	1820191				5
Total		13	5	12	5

2nd Year of Study		Credits			
Total credits per year	35	Semester 3		Semester 4	
Course	Course Code	Theory	Practice	Theory	Practice
History of Jerusalem	1800070	2			
Upper-Intermediate English	1800004	2			
Data Structures and Algorithms I	1820203	3			
Information Systems	1820204	2			
Object-Oriented Programming	1820205	3			

Introduction to Research Methods	1820206	1			
Practice III	1820290		5		
Computer Arch. & Organization	1820207			2	
Data Structures and Algorithms II	1820208			3	
Statistics and Probability	1820209			2	
Operating Systems	1820210			3	
IT Project Management	1820211			2	
Practice IV	1820291				5
Total		13	5	12	5

3rd Year of Study		Credits			
		Semester 5		Semester 6	
Total credits per year	36				
Course	Course Code	Theory	Practice	Theory	Practice
German I	1800005	2			
Human-Computer Interaction	1820302	3			
Database I	1820303	3			
Mobile and Web Development	1820304	3			
Information Ethics	1820305	2			
Practice V	1820390		5		
Compiler Design and Language Processing	1820306			3	

Database II	1820307			2	
Computer Graphics and Image Processing	1820308			2	
DSIT Elective	1820XXX			2	
Palestine: Nature & Environment	1800071			2	
German II	1800006			2	
Practice VI	1820391				5
Total		13	5	13	5

4th Year of Study		Credits			
		Semester 7		Semester 8	
Total credits per year	34				
Course	Course Code	Theory	Practice	Theory	Practice
Language and Logic	1800072	2			
Knowledge Systems	1820402	3			
Software Quality Control	1820403	3			
Advanced English	1800010	2			
Project Study I	1820480	3			
Practice VII – Graduation Project I	1820490		5		
Special Topics	1820401			3	
Parallel & Distributed Computing	1820407			3	
Entrepreneurship	1800011			2	
Project Study II	1820481			3	
Practice VIII – Graduation Project II	1820491				5
Total		13	5	11	5

Table 13: Courses distribution per academic year