

Curriculum Dual Studies Information Technology

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.

Table: Curriculum and course distribution per academic year

1st Year of Study		Credits			
		Semester 1		Semester 2	
Total credits per year	35				
Course	Course Code	Theory	Practice	Theory	Practice
Communications Skills	8000012	2			
Low-Intermediate English	8000002	2			
Mathematics I	8010103	3			
Introduction to Computer	8010101	3			
Fundamentals of Programming	8010102	3			
Intermediate English	8000003			2	
Mathematics II	8010104			3	
Introduction to Networks	8013108			2	
Software Engineering	8015109			3	
Basics of Business Administration	8000001			2	
Practical Period I & II	8011190		5		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
University Requirements I	800007x	2			
Upper-Intermediate	8000004	2			
Data Structure and Algorithms I	8010203	3			
Information Systems	8010204	2			
Object Oriented Programming	8010205	3			
Introduction to Research Methods	8010206	1			
Computer Arch. & Organization	8010207			2	
Data Structure and Algorithms II	8011208			3	
Statistics and Probability	8010209			2	
Operating Systems I	8011210			3	
Project Management	8012211			2	
Practical Period III & IV	8011290		5		5
Total		13	5	12	5

3rd Year of Study		Credits			
Total credits per year	35	Semester 5		Semester 6	
Course	Course Code	Theory	Practice	Theory	Practice
German I	800005	2			
Human Computer Interface	8012302	3			
Database I	8010303	3			
Mobile and Web Development	8014304	3			
Information Ethics	8012305	2			
Compiler Design and Language Processors	8010306			3	
Database II	8011307			2	
Computer Graphics and Image procession	8014308			3	
University Requirement II	800007x			2	
German II	8000310			2	
Practical Period V & VI	8011390		5		5
Total		13	5	12	5

4th Year of Study		Credits			
Total credits per year	35	Semester 7		Semester 8	
Course	Course Code	Theory	Practice	Theory	Practice
University Requirement III	800007x	2			
Knowledge Systems	8012402	3			
Software Quality Control	8012403	3			
Advanced English	8000010	2			
Project Study I	8011491	3			
Special Topics I	8010401			3	
Parallel & Distributed Computing	8011407			3	
Entrepreneurship	8000011			3	
Project Study II	8011492			3	
Practical P. VII & VIII (graduation project)	8011490		5		5
Total		13	5	12	5

Following up the latest trend of involving the practitioners in the teaching education there will be theoretical lectures enhanced with practical hands on, exploration of private sector and practitioners where applicable.

All applicants who wish to apply for the IT program should provide original transcripts of the Tawjihi exam in addition to school transcripts for 11th and 12th grades. Applicants must also pass an exam and/or interview set by partner companies.

Applicants wishing to enrol to the Dual Studies bachelor in IT must have at least an average of 75% in the Tawjihi exam.