DEPARTMENT OF COMPUTER SCIENCE

COURSES, TIMETABLES AND ECTS GUIDE

UE	CODE	Module	ECTS	Total	Courses	Tutorials	Practical work	Total/semester
FIRST YEAR
SEMESTER 1:
UE11	M1101	Introduction to computer systems	3.5	17	10	20	30	60
	M1102	Introduction to algorithms and programming	3.5		10	20	30	60
	M1103	Data structures and fundamental algorithms	2.5		10	15	20	45
	M1104	Introduction to databases	3.5		10	25	25	60
	M1105	Documents and digital interfaces design	2.5		0	20	25	45
	M1106	Integrated project - Discovery	1.5			60 hours of personal work
	**Total UE11:**	**40**	**100**	**130**	**270**
UE12	M1201	Discrete mathematics	2.5	13	10	18	17	45
	M1202	Linear algebra	2		6	12	12	30
	M1203	Economic environment	1.5		10	10	10	30
	M1204	Company organisation and operation	2.5		10	20	15	45
	M1205	Communication-Fundamentals of communication	2		0	15	15	30
	M1206	English for Computing	1.5		0	15	15	20
	M1207	Personal Professional project - Understanding the professional world	1		0	10	10	20
	**Total UE12**	**36**	**100**	**94**	**230**
	**TOTAL SEMESTER 1:**	**30**	**76**	**200**	**224**	**500**

UE	CODE	Module	ECTS	Total	Courses	Tutorials	Practical work	Total/semester
		FIRST YEAR						
		SEMESTER 2:						
UE21	M2101	Architecture and programming of basic computer system mechanisms	1.5	16	8	10	12	30
	M2102	Network architecture	1.5		8	10	12	30
	M2103	Fundamentals of object-oriented programming	3.5		10	20	30	60
	M2104	Fundamentals of object-oriented design	2.5		10	15	20	45
	M2105	Fundamentals of human computer interaction	2.5		10	15	20	45
	M2106	Database systems development and administration	2.5		10	15	20	45
	M2107	Integrated project – Project description and planning	2		80 hours of personal work			
Total UE21:					56	85	114	255
UE22	M2201	Graphs and languages	2.5	14	11	16	18	45
	M2202	Analysis and digital methods	2		8	12	10	30
	M2203	Accounting, financial, legal and social environment	3		12	18	15	45
	M2204	Computer project management	1.5		8	12	10	30
	M2205	-Communication – Communicating, informing, debating	1.5		0	15	15	30
	M2206	Communicating in English	2.5		0	23	22	45
	M2207	PPP- Identifying one's skills	1		0	10	10	20
Total UE22					39	106	100	245
TOTAL SEMESTER 2:				30	95	191	214	500

| **SECOND YEAR** |

SECOND YEAR

SEMESTER 3:

UE	CODE	Module	ECTS	Total	Courses	Tutorials	Practical work	Total/semester
	M3101	Principles of operating systems	2.5		15	14	16	45
	M3102	Network services	1.5		8	10	12	30
	M3103	Advanced algorithms	1.5		8	10	12	30
UE31	M3104	Server-side web programming	2.5	12	15	14	16	45
	M3105	Advanced object-oriented design	2.5		15	14	16	45
	M3106C	Advanced database systems	1.5		8	10	12	30
Total UE 31					**69**	**72**	**84**	**225**
	M3201	Probabilities and statistics	2.5		15	16	14	45
	M3202C	Mathematical modelling	1.5		0	16	14	30
	M3203	Information and communication technology (ICT) law	1.5		10	10	10	30
UE32	M3204	Management of information systems	2.5	12	15	15	15	45
	M3205	Communication-Professional communication	1.5		0	15	15	30
	M3206	Collaborating in English	2.5		0	23	22	45
Total UE32					**40**	**95**	**90**	**225**
	M3301	Software engineering methodology	3		14	22	24	60
UE33	M3302	Integrated project – Working as an IT professional	2	6	100 hours of personal work
	M3303	Personal Professional project- Clarifying one's project	1		0	10	10	20
Total UE33					**14**	**32**	**34**	**80**
TOTAL SEMESTER 3:				**30**	**123**	**199**	**208**	**530**

								SECOND YEAR

SEMESTER 4:

UE	CODE	Module	ECTS	Total	Courses	Tutorials	Practical work	Total/semester
UE41	M4101C	System and network administration	1.5	10	8	10	12	30
	M4102C	Distributed programming	1.5		8	10	12	30
	M4103C	Web Programming – Rich client	1.5		8	10	12	30
	M4104C	Design and development of mobile applications	1.5		8	10	12	30
	M4105C	Additional computing with a view to immediate employment	1.5		8	10	12	30
	M4106	Integrated project – Additional elements	2.5		60 hours of personal work			
Total UE41					**40**	**50**	**60**	**150**
UE42	M4201C	Entrepreneurship workshops	2	8	8	12	10	30
	M4202C	Operational research and decision-making support	2		8	12	10	30
	M4203	Communication – corporate communication	2		0	15	15	30
	M4204	Working in English	2		0	15	15	30
Total UE42					**16**	**54**	**50**	**120**
UE43	M4301	Internship	12	12				
TOTAL SEMESTER 4:				**30**	**56**	**104**	**110**	**270**

COURSE TOTAL:		**120**	**350**	**694**	**756**	**1800**