

UPES

Faculté Privée des Sciences de Gestion et de
la Technologie



Bachelor in Business Computing : Business Intelligence

Semester 1

	UNIT	COURSE	Teaching Methodology					ECTS		Coefficient		Assessment Mode	
			L	T	P	I	Total	ECUE	UE	ECUE	UE	CA	MS
Semester 1	UEF 110 Algorithms and data structures 1	ECUEF111: Algorithms and data structures 1	21	42	21		84	6	6	3	3		X
Semester 1	UEF120 Systems 1	ECUEF121 : Operating system 1	21	10,5			31,5	2	4	1	2		X
		ECUEF122 : Logic Systems and Computer Architecture	21	10,5			31,5	2		1			X
Semester 1	UEF130 Mathematics 1	ECUEF131: Analysis	21	10,5			31,5	2	4	1	2		X
		ECUEF132: Statistics and Probability	21	10,5			31,5	2		1			X
Semester 1	UEF140 Management 1	ECUEF141: Principles of management	21				21	2	4	1	2		X
		ECUEF142: Accounting	21				21	2		1			X
Semester 1	UET110 Soft Skills and Culture 1	ECUET111: Digital Skills	21				21	2	6	1	3	X	
		ECUET112: Business Communication 1	21				21	2		1		X	
		ECUET113 : Communication techniques 1	21				21	2		1		X	
Semester 1	UEO110 Optional units	ECUEO111 : Workflow & BPMN	21	21			42	4	6	2	3	X	
		ECUEO112 : Human Interface Machine		21			21	2		1		X	
	Total					378		30		15			

L: Lecture; T: Tutorial; P: Practical Work; I: Integrated course; CA: Continuous Assessment; MS: Mixed System

	UNIT	COURSE	Teaching Methodology					ECTS		Coefficient		Assessment Mode	
			L	T	P	I	Total	ECUE	UE	ECUE	UE	CA	MS
Semester 2	UEF210 Algorithms and data structures 2	ECUEF211 : Algorithms and data structures 2	21	41	21		84	6	6	3	3		X
Semester 2	UEF220 Systems 2	ECUEF221 : Fundamentals of networks	21	21			42	2	4	1	2		X
		ECUEF222: Introduction to information systems	21				21	2		1			X
Semester 2	UEF230 Mathematics2	ECUEF231 : Mathematical logic	21	10,5			31,5	2	4	1	2		X
		ECUEF232 : Algebra	21	10,5			31,5	2		1			X
Semester 2	UEF240 Management 2	ECUEF241 : The accounting information system	21				21	2	4	1	2		X
		ECUEF242 : Financial Management	21				21	2		1			X
Semester 2	UET210 Soft Skills and Culture 2	ECUET211 : Business Communication 2	21	21			42	4	6	2	3	X	
		ECUET212 : Communication techniques 2		21			21	2		1		X	
Semester 2	UEO210 Optional units	ECUEO211 : Parallel computing & synchronisation	21	21			42	4	6	2	3	X	
		ECUEO212 : Complexity Algorithms	21				21	2		1		X	
Total							378		30		15		

	UNIT	COURSE	Teaching Methodology					ECTS		Coefficient		Assessment Mode	
			L	T	P	I	Total	ECUE	UE	ECUE	UE	CA	MS
Semester 3	UEF310 Advanced programming 1	ECUEF311 : Object Oriented Programming	21	21	10,5		52,5	3	5	1,5	2,5	X	
		ECUEF312 : Web programming 1	21		10,5		31,5	2		1		X	
Semester 3	UEF320 Design and Database	ECUEF321 : Object Oriented design of information systems	21	10,5			31,5	2	5	1	2,5		X
		ECUEF322 : Database	21	21			42	3		1,5		X	
Semester 3	UEF330 Stat and AI	ECUEF331 : Inferential statistics	21				21	2	4	1	2		X
		ECUEF332 : Fundamentals of AI	21	10,5			31,5	2		1		X	
Semester 3	UEF340 Digital Business	ECUEF341 : Digital Marketing	21				21	2	4	1	2	X	
		ECUEF342 : Digital Economy	21	10,5			31,5	2		1		X	
Semester 3	UET310 Soft skills and culture 3	ECUET311 : IT ethics and laws		21			21	2	6	1	3	X	
		ECUET312 : Personal and Professional Project (PPP)	21	21			42	4		2		X	
Semester 3	UEO310 Optional units	ECUEO311 : Compilation	21	10,5			31,5	3	6	2	3	X	
		ECUEO312 : IoT		21			21	3		1		X	
Total							378		30		15		

Semester 4

	UNIT	COURSE	Teaching Methodology					ECTS		Coefficient		Assessment Mode	
			L	T	P	I	Total	ECUE	UE	ECUE	UE	CA	MS
Semester 4	UEF410 Data Analysis and Advanced Programming 1	ECUEF411 : Data analysis and mining	21	10,5			31,5	2	5	1	2,5		X
		ECUEF412 : Web programming 2	21			21	42	3		1,5		X	
Semester 4	UEF420 Graph theory and operational research	ECUEF421 : Graph theory and operational research	21	21			42	4	4	2	2		X
Semester 4	UEF430 Software engineering	ECUEF431 : Software Engineering Workshop	21	10,5			31,5	2	4	1	2		X
		ECUEF432 : Software architecture	21	10,5			31,5	2		1		X	
Semester 4	UEF440 Database	ECUEF441 : Database Management Systems (DMS)	21		21		42	2	5	1	2,5		X
		ECUEF442 : Multidimensional Modelling and Data Warehouse	21	21			42	3		1,5		X	
Semester 4	UET410 Soft skills and culture 4	ECUET411: Entrepreneurship	21				21	2	6	1	3	X	
		ECUET412 : Leadership	21				21	2		1		X	
		ECUET413 : English		21			21	2		1		X	
Semester 4	UEO410 Optional units	ECUEO411 : Computer networks	21	21			42	2	4	1	2	X	
		ECUEO412 : E-Commerce	21				21	2		1		X	
Total							378		30		15		

	UNIT	COURSE	Teaching Methodology					ECTS		Coefficient		Assessment Mode	
			L	T	P	I	Total	ECUE	UE	ECUE	UE	CA	MS
Semester 5	UEF 510 Decision sciences	ECUEF511 : Predictive techniques	21	21			42	2	4	1	2		X
		ECUEF512 : Fundamentals of decision theory	21				21	2		1			X
Semester 5	UEF 520 Advanced environments	ECUEF521 : Introduction to Big data and Cloud	21	21			42	3	5	1,5	2,5		X
		ECUEF522 : Mobile development	21				21	2		1		X	
Semester 5	UEF 530 Information technology	ECUEF531 : Information technology management (ERP, SCM...)	21	21			42	3	5	1,5	2,5	X	
		ECUEF532 : The fundamentals of IT security	21				21	2		1		X	
Semester 5	UEF 540 Data analysis and advanced programming 2	ECUEF541 : Advanced programming languages-BI	21		21		42	2	4	1	2		X
		ECUEF542 : TB design and scoring	21				21	2		1		X	
Semester 5	UET 510 Soft skills and Culture 5	ECUET511 : Project management	21		21		42	4	6	2	3	X	
		ECUET512 : Psychology and sociology for online media applications	21				21	2		1		X	
Semester 5	UEO 510 Optional units	ECUEO511 : E-payments	21	21			42	4	6	2	3	X	
		ECUEO512 : E-CRM	21				21	2		1		X	
Total							378		30		15		

	UNIT	COURSE	Teaching Methodology				ECTS		Coefficient		Assessment Mode	
			L	T	P	I	Total	ECUE	UE	ECUE	UE	CA
	Internship	Internship			420	420	30	30	15	15		
	Total				420	420	30	30	15	15		