

"ALEKSANDËR MOISIU" UNIVERSITY OF DURRËS
FACULTY OF INFORMATION TECHNOLOGY
MASTER OF SCIENCE ON "QUANTUM INFORMATION TECHNOLOGY"
CURRICULA

Fak.	Dep.	Degree	Year	Sem	Type	Cat.	Course	USCr	ECTS
Faculty of Information Technology	Department of Information Technology	Master of Science on "Quantum Information Technology"	1st Year	1st Semester	M	A	From analog to digital, risks, government intentions, possible solutions	4	6
					M	B	Blockchain scaling, sharding technology and smart contract	4	6
					M	B	Inorganic materials for quantum technologies	4	6
					M	B	Coding Theory	4	6
					O	C	Cloud Computing	4	6
						Advanced Database			
				2nd Semester	M	B	Implementation of quantum algorithms	4	6
					M	B	Sensors and Electronic Systems for Quantum Applications	4	6
					M	B	Solid State Devices for Quantum Electronics	4	6
					M	B	Blockchain real use cases for industrial applications	4	6
			O		C	Parallel Programming	4	6	
					Cryptography				
			2nd Year	1st Semester	M	B	Advanced Computer Architecture	4	6
					M	B	Blockchain and quantum communication	4	6
					M	B	Photonic quantum technologies	4	6
					M	B	Blockchain, security and cryptography	4	6
					O	C	Data Mining	4	6
						Research Methods			
				2nd Semes	M	D	Professional practice	8	12
			M		E	Diploma thesis	12	18	

80 120

* M - Mandatory

* O - Optional