	Course Unit	Pre-requisite	Credits	Pathway 1	Pathway 2	Pathway 3	Pathway 4	Pathway 5
Year IV	CSCI 43018 Research Project	All compulsory course units	8	C	C	С	С	C
	CSCI 44026 Industrial Training	All compulsory course units	6	С	С	С	С	С
	CSCI 44032 Mobile Computing	CSEC 32012	2	О	О	О	О	О
	CSCI 44042 Theory of Computability and Complexity	CSCI 32012	2			О	О	0
	CSCI 44052 Software Quality and Automation	CSCI 21042	2					О
	CSCI 44062 Software Architecture and Design	CSCI 21042	2					0
	CSCI 44072 Computer Modelling and Simulation	CSCI 32062	2			О	0	0
	CSCI 44082 Emerging Technologies in Computing	All compulsory course units	2	О	О	О	О	О
	CSCI 44092 Enterprise Application Development	CSCI 21042	2	О	О	О	О	0
	CSCI 44103 Advanced Compilers	CSCI 31032	3				О	0
	CSCI 44112 Introduction to Quantum Computing	CSCI 22052	2	О	О	О	О	0
	CSEC 44012 Internet of Things	CSCI 21023	2	C	О	О	О	0
	CSEC 44022 Information Security Management and Auditing	CSCI 22062	2	С				0
	CSEC 44032 Cyber Crime and Forensics	CSCI 22062	2	C	О		О	0
	CSEC 44042 Security Analytics	CSEC 31012	2	C				
	CSEC 44052 Cyber Laws and Standards	CSCI 22062	2	О	О		О	О
	CSEC 44062 Ethical Hacking and Vulnerability Analysis	CSEC 31022, CSEC 32032	2	С				
	CSEC 44072 Secure Software Engineering	CSEC 31022	2	С				О
	CSEC 44082 Information & Coding Theory	CSCI 22062	2	0			0	
	CSEC 44092 Mobile & IOT Security	CSEC 31012	2	0				
	CSEC 44102 Advanced Cryptography	CSEC 31012	2	0				
	DSCI 44012 Python for Data Science	CSCI 31072	2		С	О		0
	DSCI 44022 Data Visualization	CSCI 32092	2		С			
	DSCI 44033 Big Data Analytics	CSCI 32092	3		C			
	DSCI 44042 NoSQL Databases	DSCI 32012	2		О			0
	DSCI 44052 Time Series Analysis for Data Science	CSCI 21013	2		C	О	О	0
	DSCI 44062 Big data Architecture & Management	CSCI 32052	2		О	О		0
	DSCI 44072 Geographical Information Systems	CSCI 31042	2		О			
	AINT 44012 Artificial Neural Networks	CSCI 31022	2	О	О	C	О	О
	AINT 44022 Fuzzy Logic	CSCI 31014	2	О	О	C	О	0
	AINT 44032 Deep Learning	CSCI 31022	2		О	С		О
	AINT 44042 Machine Translation	AINT 31012	2			C		
	AINT 44052 Intelligent Autonomous Robotics	CSCI 32022	2			С	О	0
	AINT 44062 Computational Cognitive Science	AINT 31022	2			О		
	AINT 44072 Introduction to Virtual Reality	CSCI 32062	2			О	O	0
	SCOM 44012 High Performance Computing	SCOM 32012	2	О	О	О	C	0
	SCOM 44022 Advanced Numerical Analysis and Scientific Programming	SCOM 31013	2				С	
	SCOM 44033 Survey of Materials Simulation Methods	CSCI 12042, CSCI 31014	3				О	
	SCOM 44043 Finite Element Methods in Scientific Computing	CSCI 12042, CSCI 31014	3				О	
	SCOM 44052 Graphics Processing Unit programming	CSCI 32062	2				О	