

Bachelor of Engineering with Honours in Information & Communications Technology majoring in Information Security

Applicable for AY2022 student intake onwards.

Module Code and Title	Type	CR
YEAR 1 TRIMESTER 1		
ICT1011 Computer Organization & Architecture	Core	6
INF1001 Introduction to Computing	Core	6
INF1002 Programming Fundamentals	Core	6
INF1003 Mathematics 1	Core	6
UDC1001 Digital Competency Essentials	University	2
ICT4012A Integrated Work Study Programme (Career Skills)	Core	-
TOTAL		26
YEAR 1 TRIMESTER 2		
ICT1012 Operating Systems	Core	6
INF1004 Mathematics 2	Core	6
ICT1013 Computer Networks	Core	6
INF1005 Web Systems & Technologies	Core	6
INF1009 Object-Oriented Programming	Core	6
ICT4012A Integrated Work Study Programme (Career Skills)	Core	-
TOTAL		30
YEAR 1 TRIMESTER 3		
INF1007 Ethics and Professional Conducts	Core	6
INF1008 Data Structures and Algorithms	Core	6
UCS1001 Critical Thinking and Communicating	University	4
UDE1001 Introduction to Design Innovation	University	2
ICT4012A Integrated Work Study Programme (Career Skills)	Core	-
TOTAL		18
YEAR 2 TRIMESTER 1		
INF2001 Introduction to Software Engineering	Core	6
ICT2217 Network Security	Core	6
ICT2212 Ethical Hacking	Core	6
INF2004 Embedded Systems Programming	Core	6
UDE2001 Interdisciplinary Design Innovation	University	4
ICT4012A Integrated Work Study Programme (Career Skills)	Core	-
TOTAL		28
YEAR 2 TRIMESTER 2		
ICT2213 Applied Cryptography	Core	6
ICT2214 Web Security	Core	6
ICT2215 Mobile and Embedded Security	Core	6
INF2008 Machine Learning	Core	6
UCM3001 Change Management	Core	6
TOTAL		30
YEAR 2 TRIMESTER 3		
ICT2114 Integrative Team Project	Core	6
ICT2216 Secure Software Development	Core	6
USI2001 Social Innovation Project	University	3
TOTAL		15
YEAR 3 TRIMESTER 1		
ICT3212 Operations Security and Incident Management	Core	6

Module Code and Title	Type	CR
ICT3213 Malware Analysis and Defence	Core	6
ICT3215 Digital Forensics	Core	6
ICT3214 Security Analytics	Core	6
TOTAL		24
YEAR 3 TRIMESTER 2		
ICT3217 Specialised R&D Project	Core	6
ICT3219 Industry Certification Module	Core	6
ICT3218 Security Governance, Risk Management and Compliance	Core	6
ICT3216 Special Topics in Security	Core	6
TOTAL		24
YEAR 3 TRIMESTER 3		
ICT4011 Capstone Project	Core	5
ICT4012B Integrated Work Study Programme (Work Attachment)	Core	10
TOTAL		15
YEAR 4 TRIMESTER 1		
ICT4011 Capstone Project	Core	5
ICT4012B Integrated Work Study Programme (Work Attachment)	Core	10
TOTAL		15
YEAR 4 TRIMESTER 2		
ICT4011 Capstone Project	Core	5
ICT4012B Integrated Work Study Programme (Work Attachment)	Core	10
TOTAL		15
GRAND TOTAL		240