

**Bachelor of Engineering with Honours in Information & Communications Technology majoring in Software Engineering**

Applicable for AY2022 student intake onwards.

Module Code and Title	Type	CR
<b>YEAR 1 TRIMESTER 1</b>		
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	-
<b>TOTAL</b>		<b>26</b>
<b>YEAR 1 TRIMESTER 2</b>		
ICT1012 Operating Systems	Core	6
INF1004 Mathematics 2	Core	6
INF1005 Web Systems & Technologies	Core	6
INF1009 Object-Oriented Programming	Core	6
UCS1001 Critical Thinking and Communicating	University	4
ICT4012A Integrated Work Study Programme (Career Skills)	Core	-
<b>TOTAL</b>		<b>28</b>
<b>YEAR 1 TRIMESTER 3</b>		
INF1006 Computer Networks	Core	6
INF1007 Ethics and Professional Conducts	Core	6
INF1008 Data Structures and Algorithms	Core	6
UDE1001 Introduction to Design Innovation	University	2
ICT4012A Integrated Work Study Programme (Career Skills)	Core	-
<b>TOTAL</b>		<b>20</b>
<b>YEAR 2 TRIMESTER 1</b>		
INF2001 Introduction to Software Engineering	Core	6
INF2002 Human Computer Interaction	Core	6
INF2003 Database Systems	Core	6
INF2004 Embedded Systems Programming	Core	6
UDE2001 Interdisciplinary Design Innovation	University	4
ICT4012A Integrated Work Study Programme (Career Skills)	Core	-
<b>TOTAL</b>		<b>28</b>
<b>YEAR 2 TRIMESTER 2</b>		
ICT2112 Software Design	Core	6
ICT2113 Software Modelling and Analysis	Core	6
ICT2215 Mobile and Embedded Security	Core	6
INF2007 Mobile Application Development	Core	6
<b>TOTAL</b>		<b>24</b>
<b>YEAR 2 TRIMESTER 3</b>		
ICT2114 Integrative Team Project	Core	6
ICT2216 Secure Software Development	Core	6
ICT3219 Industry Certification Module	Core	6

Module Code and Title	Type	CR
INF2005 Cyber Security Fundamentals	Core	6
<b>TOTAL</b>		<b>24</b>
<b>YEAR 3 TRIMESTER 1</b>		
ICT3112 Software Verification and Validation	Core	6
ICT3113 Performance Testing and Optimisation	Core	6
INF2006 Cloud Computing and Big Data	Core	6
USI2001 Social Innovation Project	University	3
<b>TOTAL</b>		<b>21</b>
<b>YEAR 3 TRIMESTER 2</b>		
ICT3217 Specialised R&D Project	Core	6
INF2008 Machine Learning	Core	6
INF2009 Edge Computing and Analytics	Core	6
UCM3001 Change Management	Core	6
<b>TOTAL</b>		<b>24</b>
<b>YEAR 3 TRIMESTER 3</b>		
ICT4011 Capstone Project	Core	5
ICT4012B Integrated Work Study Programme (Work Attachment)	Core	10
<b>TOTAL</b>		<b>15</b>
<b>YEAR 4 TRIMESTER 1</b>		
ICT4011 Capstone Project	Core	5
ICT4012B Integrated Work Study Programme (Work Attachment)	Core	10
<b>TOTAL</b>		<b>15</b>
<b>YEAR 4 TRIMESTER 2</b>		
ICT4011 Capstone Project	Core	5
ICT4012B Integrated Work Study Programme (Work Attachment)	Core	10
<b>TOTAL</b>		<b>15</b>
<b>GRAND TOTAL</b>		<b>240</b>