

BCIS - New Programme

Course Code	Course Title	Credits
Trimester 1		
THEO 111	Christian Beliefs	3
SOST 131	Introduction to Sociology	3
CISY 101	Introduction to Computer Systems	3
CISY 110	Introduction to Programming	3
MATH 102	Foundation of Mathematics	3
MATH 110	Linear Algebra I	3
		18
Trimester 2		
COMM 111	Communication Skills	3
CISY 104	Analog Electronics	3
CISY-111	Structured Programming	3
CISY 131	Introduction to Computer Networks	3
MATH 103	Calculus I	3
MATH 132	Probability and Statistics I	3
		18
Trimester 3		
HSCI 225	HIV/AIDS	3
CISY-210	Object Oriented Programming	3
CISY 221	Database Systems	3
CISY 222	Systems Analysis and Design	3
CISY 231	Telecommunication Networks	3
MATH 104	Calculus II	3

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Trimester 4		
ENVI 201	Environmental Science	3
CISY-201	Computer Organization and Architecture	3
CISY 212	Data Structures and Algorithms	3
MATH 211	Discrete Structures	3
MATH 230	Probability and Statistics II	3
PHYS 200	Electricity and Magnetism	3
		18
Trimester 5		
BUSS 114	Entrepreneurship	3
CISY 303	Computer Hardware and Maintenance	3
CISY 204	Digital Electronics	3
CISY 300	Computer Operating Systems I	3
CISY 302	Research Methodology	3
CISY 310	Advanced Programming	3
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Trimester 6		
CISY 304	Computer Operating Systems II	3
CISY 311	Internet Applications and Programming	3
CISY 321	Software Engineering Principles	3
CISY 331	Network Administration I	3
MATH 330	Operations Research for Computer Scientists	3
One course in option		3
CISY 400	Industrial Attachment (Planning stage)	0

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Trimester 7

CISY 400 Industrial Attachment (Execution stage) 3

Trimester 8

CISY 421 Management Information Systems 3

CISY-422 Introduction to Artificial Intelligence 3

CISY 431 Information Systems Security and Audit 3

CISY 404 ICT Project Management 3

One course in option 3

One course in option 3

CISY 401 CIS Research project (Proposal stage) 3

21

Trimester 9

CISY 403 Simulation and Modeling 3

CISY 432 Distributed Systems 3

CISY 401 CIS Research Project (Execution stage) 3

BUSS 420 Strategic Management 3

One course in option 3

One course in option 3

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Total 150

Option Courses

Information Systems Option

CISY-312 Microprocessor Programming

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CISY 313	Introduction to Logic Programming
CISY 402	Automata and Formal Language
CISY 411	Object Oriented Analysis and Design
CISY 412	Mobile Computing
CISY 423	Advanced Database Systems
CISY 424	Introduction to Neural Networks
CISY 425	Robotics
CISY 426	Multimedia Systems
CISY 427	Introduction to Expert Systems
CISY 428	E-commerce

Computer Networks option

CISY 332	Network Hardware and Configuration	
CISY 333	Wireless Communications	
CISY-433	Cryptography and Network Security	3
CISY 434	Digital Signal Processing	
CISY 435	Network Administration II	
CISY 436	Client Server Systems and Computing	
CISY 437	Network Performance and Optimization	