

BCA - Specialization in Cyber Security In collaboration with EC Council

Semester - I		
Course Code	Course Name	Credits
BCA101A	Fundamentals of Computer Systems	3
BCA102A	Programming Fundamentals using C-I	4
BCA103A	System Analysis and Design	3
BCA104A	Digital Electronics	3
BCA105B	Communication Skills	3
BCA106A	Office Automation Tools Lab	2
BCA107A	Programming Fundamentals using C-I Lab	2
BCA108B	Communication Skills Lab	2
BCA166A	Designing Lab(Photoshop and CorelDraw)	2
BCA110A	Digital Electronics Lab	2
BCA111A	Seminar	2
Total		28

Semester - II		
Course Code	Course Name	Credits
BCA112A	Environmental Studies	2
BCA113B	Operating System	4
BCA114B	Database Management System	3
BCA115B	Computer Architecture	4
BCA116A	Programming Fundamentals using C-II	4
BCA118B	Database Management System Lab	2
BCA119A	Programming Fundamentals using C-II Lab	2
BCA121A	UNIX and Shell Programming Lab	2
BCACS101 (Cyber Security Specialization)	EC Council Certified Security Specialist (ECSS)	5
Total		28

Semester - III		
Course Code	Course Name	Credits
BCA135B	Computer Network	3
BCA123A	Programming in PHP	3
BCA125A	Data Structures and Algorithms using C	4
BCA126A	Programming Fundamentals using C++	4
BCA127A	Software Engineering	3
BCA128A	PHP Lab	2
BCA129A	Data Structure and Algorithm using C Lab	2
BCA130A	Programming Fundamentals using C++ Lab	2
BCACS102 (Cyber Security Specialization)	Certified Network Defender (CND)	5
Total		28

Semester - IV		
Course Code	Course Name	Credits
BCA171A	Soft Skills	2
BCA133A	Programming in Java	4
BCA134A	Programming in Python	3
	Elective – I	3
	Elective – II	3
BCA136A	Programming in Java Lab	2
BCA137A	Programming in Python Lab	2
BCA139A	Project	4
BCACS103 (Cyber Security Specialization)	Certified Ethical Hacker (CEH)	5
Total		28

Semester - V		
Course Code	Course Name	Credits
BCA132A	Introduction to Accounting and Economics	3
BCA141A	Android Applications Development	3
BCA142A	Information Security and Cyber Law	4
BCA143A	Advance Java	4
	Elective – III	3
	Elective – IV	3
BCA145A	Android Applications Development Lab	2
BCA146A	Advance Java Lab	2
BCA138A	Introduction to PL/SQL Lab	2
BCA147A	Project	2
Total		28

Semester - VI		
Course Code	Course Name	Credits
BCA165A	Industrial Training/Internship/Project Presentation	28

List of courses for Electives

Course Code	Course Name
BCA148A	Computer Graphics
BCA149A	Compiler Design
BCA150A	MIS (Management Information System)
BCA151A	Theory of Computation
BCA152A	Web Technologies
BCA153A	Artificial Intelligence and Expert System
BCA154A	Data Mining
BCA155A	Data Warehousing
BCA156A	Mongo Database
BCA157A	Soft Computing
BCA158A	Parallel Computing
BCA159A	Mobile Computing
BCA160A	Image Processing
BCA161A	Big Data Analytics
BCA162A	Organization Behavior
BCA163A	Introduction to Cloud Computing
BCA164A	Introduction to Sales Force
BCA168A	Entrepreneurship
BCA140A	Data Analytics using R
BCA171A	Robotics Process Automation