MEDIUM OF INSTRUCTION
The medium of instruction shall be in English

ATTENDANCE:
For the purpose of calculating attendance, each semester shall be taken as a Unit.
A student shall be considered to have satisfied the requirement of attendance for the semester if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.

SYLLABUS FOR BCA CLOUD COMPUTING AND ETHICAL HACKING

Semester	Part	Code	Title of the paper	/ Week	IA	Exam	Total	Subject	Semester
I	Part - 1	BCA101T	Indian Language	4	20	80	100	2	16
		BCA102T	English	4	20	80	100	2	
	Part – 2	BCA103T	Problem Solving Techniques using C	4	30	70	100	2	
		BCA104T	Digital Electronics	4	30	70	100	2	
		BCA105T	Discrete Mathematics	5	50	100	150	3	
		BCA103P	C Programming Lab	3	15	35	50	1	
		BCA104P	Digital Electronics Lab	3	15	35	50	1	
	Part – 3	-	Foundation Course	3	30	70	100	2	
		-	CC & EC		50		50	1	
II	Part – 1	BCA201T	Indian Language	4	20	80	100	2	16
		BCA202T	English	4	20	80	100	2	
	Part - 2	BCA203T	Data structures	4	30	70	100	2	
		BCA204T	Database Management System	4	30	70	100	2	
		BCA205T	Numerical and Statistical Methods	5	50	100	150	3	
		BCA203P	Data Structures Lab	3	15	35	50	1	
		BCA204T	DBMS Lab	3	15	35	50	1	
	Part - 3	-	Foundation Course	3	30	70	100	2	
		-	CC & EC	-	50	-	50	1	
III	Part - 1	BCA301T	Indian Language	4	20	80	100	2	16
		BCA302T	English	4	20	80	100	2	
	Part - 2	BCA303T	Object Oriented Programming using C++	4	30	70	100	2	
		BCA304T	Financial Accounting and Management	4	30	70	100	2	
		BCA305T	Operating System	5	50	100	150	3	
		BCA303P	C++ Lab	3	15	35	50	1	
		BCA304T	Accounting Package Lab	3	15	35	50	1	
	Part - 3	-	Foundation Course	3	30	70	100	2	
		-	CC & EC	-	50	-	50	1	
IV	Part - 1	BCA401T	Indian Language	4	20	80	100	2	16
		BCA402T	English	4	20	80	100	2	
	Part - 2	BCA403T	Visual Programing	4	30	70	100	2	
		BCA404T	Unix Shell programming	4	30	70	100	2	
		BCA405T	Operation Research	5	50	100	150	3	
		BCA403P	Visual Programming Lab	3	15	35	50	1	
		BCA404T	UNIX Lab	3	15	35	50	1	
	Part - 3	-	Skill Development Course	3	30	70	100	2	
			CC & EC	-	50	-	50	1	

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
V	Part - 2	BCA501T	Data Communication and Networks	4	50	100	150	3	20
		BCA502T	Software Engineering	4	50	100	150	3	
		BCA503T	Computer Architecture	4	50	100	150	3	
		BCA504T	Java Programming	4	30	70	100	2	
		BCA505T	Microprocessor and Assembly Language	4	30	70	100	2	
		BCA504P	Java Programming Lab	3	15	35	50	1	
		BCA505P	Assembly Language Programming Lab	3	15	35	50	1	
		BCA506P	Project	8	50	100	150	3	
	Part - 3	-	Skill Development Course	3	30	70	100	2	
VI	Part–2	BCA601T	Theory of Computation	4	50	100	150	3	20
		BCA602T	System Programming	4	50	100	150	3	
		BCA603T	Cryptography and Network Security	4	50	100	150	3	
		BCA604T	Web Programming	4	30	70	100	2	
		BCA604P	Web Programming Lab	3	15	35	50	1	
		BCA605P	Project Work	16	100	200	300	6	
	Part – 3	-	Skill Development Course	3	30	70	100	2	

What are cloud computing and Ethical hacking and cybersecurity?

In this course, Which maps to the cloud computing module in version 10 of the certified module in version 10 of the Certified Ethical Hacker (CEH) exam, instructor Daniel Lachance explores how to evaluate and harden Cloud-deployed.

Ethical Hacking involves a hacker agreeing with an organization or individual

Cyber Security is sub-stream of Computer Science, which provides knowledge and skills required for computer operating systems, networks, and data from cyber-attacks.

It is a Graduate course that involves the study of computer science with respect to programming, operating systems, Linux, cryptography, ethical hacking and mobile, and wireless security. Candidates are taught about practical topics like operations, software design, implementation, storage, security, and multiple encryption and hacking methodologies during the course. Tools like IaaS and SaaS are also highlighted in the course. Skills like management, leadership, research, and decision-making are enhanced through the course.