

BCA

Objectives

To create high calibre solution architects and innovators for software development. The main objectives of BCA Program are to prepare the youth to take up positions as system analysts, system engineers, software engineers, programmers and of course as versatile teachers in any area of computer applications. Accordingly, the course curriculum aims at developing 'systems thinking', 'abstract thinking', 'skills to analyze and synthesize' and 'skills to apply knowledge' through 'extensive problem-solving sessions', 'hands on practice under various hardware/software environments', 'minor projects. In addition, 'social interaction skills', 'communication skills', 'life skills', 'entrepreneurial skills', and 'research skills' which are necessary for career growth and for leading quality life are also imparted.

Mission

To teach 'things just not words', 'how to think', and 'how to self-learn'.

Programme Outcomes

Learning Outcomes from Bachelor of Computer Applications (BCA) Programme: At the end of the course the student should be able to:

- Understand basic concepts and terminology of information technology.
- Have a basic understanding of personal computers and their operations.
- Be able to identify issues related to information security.

Programme Structure

SEMESTER I							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTE
101	Fundamentals of IT	5	3	2	-	60% / 40%	Univ
102	Database Management Systems	5	3	2	-	60% / 40%	Univ
103	C Programming – I	5	3	2	-	60% / 40%	Univ
104	Principles of Management	4	2	2	-	60% / 40%	Univ
105	Lab on MS-Office Suite	2	-	-	4	60% / 40%	Univ

SEMESTER I							
106	Lab on C Programming – I	2	-	-	4	60% / 40%	Univ
107	General course-I English language	2	2	-	-	60% / 40%	Univ
Total		25	13	08	08		
SEMESTER II							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTE
201	Computer Organization and Architecture	5	3	2	-	60% / 40%	Univ
202	Database application with Oracle	5	3	2	-	60% / 40%	Univ
203	C Programming – II	5	3	2	-	60% / 40%	Univ
204	Financial and Management Accounting	4	2	2	-	60% / 40%	Univ
205	Lab on C Programming – II and Oracle	2	-	-	4	60% / 40%	Univ
206	Minor Project – I	2	-	-	4	60% / 40%	Univ
207	General Course II Business Communication	2	2	-	-	Continuous Assessment	Institute
Total		25	13	08	08		
SEMESTER III							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTE
301	Operating Systems	5	3	2	-	60% / 40%	Univ
302	Software Engineering	5	3	2	-	60% / 40%	Univ
303	Data Structures	5	3	2	-	60% / 40%	Univ
304	Mathematics	4	2	2	-	60% / 40%	Univ
305	Lab on Data Structures	2	-	-	4	60% / 40%	Univ
306	Minor Project – II	2	-	-	4	60% / 40%	Univ
307	General Course III Environmental Studies	2	2	-	-	Continuous Assessment	Institute
Total		25	13	08	08		

SEMESTER IV							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTE
401	Computer Networks – I	5	3	2	-	60% / 40%	Univ
402	Software Testing	5	3	2	-	60% / 40%	Univ
403	Java Programming	5	3	2	-	60% / 40%	Univ
404	Statistics	4	2	2	-	60% / 40%	Univ
405	Lab on Java	2	-	-	4	60% / 40%	Univ
406	Minor Project – III	2	-	-	4	60% / 40%	Univ
407	General Course IV Aptitude – I	2	2	-	-	Continuous Assessment	Institute
Total		25	13	08	08		
SEMESTER V							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTE
501	Introduction to the Internet Technologies	5	3	2	-	60% / 40%	Univ
502	Object Oriented Analysis and Design	5	3	2	-	60% / 40%	Univ
503	C# Programming	5	3	2	-	60% / 40%	Univ
504	Combinotrics and Graph Theory	4	2	2	-	60% / 40%	Univ
505	Lab on Internet Technology and C# Programming	2	-	-	4	60% / 40%	Univ
506	Introduction to Linux Operating System	2	-	-	4	60% / 40%	Univ
507	General Course V Aptitude – II	2	2	-	4	Continuous Assessment	Institute
Total		25	13	08	12		
SEMESTER VI							
Course Number	Course Title	Credit Value	#Lec	#Tut.	#Lab.	Weightage for EoTE/IA	EoTE
601	Information Security	5	3	2	-	60% / 40%	Univ
602	Business Intelligence	5	3	2	-	60% / 40%	Univ

SEMESTER VI							
603	Website Development	5	3	2	-	60% / 40%	Univ
604	Operations Research	4	2	2	-	60% / 40%	Univ
605	Lab on Website Development	2	-	-	4	60% / 40%	Univ
606	Minor Project – IV	2	-	-	4	60% / 40%	Univ
607	General Course VI Technical Interview Skills	2	2	-	-	Continuous Assessment	Institute
Total		25	13	08	08		