

NEW SYLLABUS STRUCTURE
For BCA THREE YEARS DEGREE PROGRAMME

1 BCA – 1 SEM

	Subject Code	Subject	Theory Hours/Week	Practical Hours/Week	Duration of Exams (Hours)	Marks & Credits			
						IA	Exam	Total	Credit
Group - 1	G601.1	Problem Solving Through C	4	-	3	20	100*	100	2
	G602.1	Computer Fundamentals & Office Automation	4	-	3	20	100*	100	2
	G603.1	Discrete Mathematics	4	-	3	20	100*	100	2
	G601.1P	Lab1 - Problem Solving Through C	-	4	3	20	80	100	2
	G602.1P	Lab 2 – Computer Fundamentals & Office Automation	-	4	3	20	80	100	2
Group – 2	G604.1E	Computer Networks	2	--	2	10	40	50	1
	G605.1E	Cyber Security							
Group – 3		English	4	-	3	20	100*	100	2
		Language – 2	4	-	3	20	100*	100	2
		Environmental Science & Value Education	2	-	2	10	40	50	1
Group – 4		EC & CC	2	-	2	50	-	50	1
		Total	26	8	27	210		850	17

1 BCA – 2 SEM

	Subject Code	Subject	Theory Hours/Week	Practical Hours/Week	Duration of Exams (Hours)	Marks & Credits			
						IA	Exam	Total	Credit
Group– 1	G601.2	Microprocessor	4	-	3	20	100*	100	2
	G602.2	Relational Database Management System	4	-	3	20	100*	100	2
	G603.2	Computer Oriented Numerical Analysis	4	-	3	20	100*	100	2
	G601.2P	Lab 1-Microprocessor	-	4	3	20	80	100	2
	G602.2P	Lab 2 -Relational Database Management System	-	1	3	20	80	100	2
Group– 2	G604.2E	Introduction to Data Science	2	-	2	10	40	50	1
	G605.2E	Fundamentals of E-Commerce							
Group – 3		English	4	-	3	20	100*	100	2
		Language – 2	4	-	3	20	100*	100	2
		Indian Constitution & Value Education	2	-	2	10	40	50	1
Group – 4		EC & CC	2	-	2	50	-	50	1
		Total	26	8	27	210		850	17

2 BCA – 3 SEM

	Subject Code	Subject	Theory Hours / Week	Practical Hours /Week	Duration of Exams (Hours)	Marks & Credits			
						IA	Exam	Total	Credits
Group – 1	G601.3	Java Programming	4	-	3	20	100*	100	2
	G602.3	Web Designing	4	-	3	20	100*	100	2
	G603.3	Operating Systems	4	-	3	20	100*	100	2
	G601.3P	Lab 1- Java Programming	-	4	3	20	80	100	2
	G 602.3P	Lab 2 - Web Designing	-	4	3	20	80	100	2
Group – 2	G604.3E	Graphic design	2	-	2	10	40	50	1
	G605.3E	Internet Of Things							
Group – 3		Language – 1	4	-	3	20	100*	100	2
		Language – 2	4	-	3	20	100*	100	2
		Gender Equity & Value Education	2	-	2	10	40	50	1
Group – 4		EC & CC	2	-	2	50	-	50	1
		Total	26	8	27	210		850	17

2 BCA – 4 SEM

	Subject Code	Subject	Theory Hours / Week	Practical Hours /Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credits
Group – 1	G 601.4	Data Structures using C	4	-	3	20	100*	100	2
	G 602.4	Web Programming using PHP	4	-	3	20	100*	100	2
	G 603.4	Data Mining	4	-	3	20	100*	100	2
	G 601.4P	Lab 1 - Data Structures using C	-	4	3	20	80	100	2
	G602.4P	Lab 2 –Web Programming using PHP	-	4	3	20	80	100	2
Group – 2	G604.4E	Hardware and PC Maintenance	2	-	2	10	40	50	1
	G605.4E	Fundamentals of ICT							
Group – 3		English	4	-	3	20	100*	100	2
		Language – 2	4	-	3	20	100*	100	2
		Human Rights & Value Education	2	-	2	10	40	50	1
Group– 4		EC & CC	2	-	2	50	-	50	1
		Total	26	8	27	210		850	17

3 BCA – 5 SEM

	Subject Code	Subject	Theory Hours/ Week	Practical Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credits
Group – 2	G 601.5	Java 2 Enterprise Edition	4	-	3	20	100*	100	2
	G 602.5	Computer Graphics & Multimedia	4	-	3	20	100*	100	2
	G 603.5	Object Oriented Analysis & Design	4	-	3	20	100*	100	2
	G 604.5	Software Engineering	4	-	3	20	100*	100	2
	G 605.5	Python Programming	4	-	3	20	100*	100	2
	G 606.5	Design and Analysis of Algorithms	4	-	3	20	100*	100	2
	G601.5P	Lab 1 - Java 2 Enterprise Edition	-	3	3	20	80	100	2
	G602.5P	Lab 2 - Computer Graphics	-	3	3	20	80	100	2
	G603.5P	Lab 3 - Python Programming	-	3	3	20	80	100	2
		Total	24	9	27	180		900	18

3 BCA – 6 SEM

	Subject Code	Subject	Theory Hours / Week	Practical Hours /Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credits
Group 2	G601.6	Linux and Shell Programming	4	-	3	20	100*	100	2
	G602.6	Mobile Communication	4	-	3	20	100*	100	2
	G603.6	Cloud computing	4	-	3	20	100*	100	2
	G601.6P	Lab: Shell Programming and Wireframes	-	4	3	20	80	100	2
		Total	12	4	12			400	8

Subject Code	Subject	Contact Hours / Week	Practical Hours / Week	Duration of Exams (Hrs)	IA	Exam (Record +completion)	Marks (presentation + viva)	Total	Credits
G603.6P	Project Dissertation	20	-	3	100	300	100	500	10
		Total						500	10

* Theory exams are conducted for 100 marks and then it is converted to 80 marks.

Total Marks: 5200

Total Credits for the Course (Semester 1 to 6): (17+17+17+17+18+18)=104