SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY

COURSE STRUCTURE

BACHELOR OF COMPUTER APPLICATIONS (BCA) 3 YEAR PROGRAMME



GAUTAM BUDDHA UNIVERSITY GAUTAM BUDH NAGAR, GREATER NOIDA

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	Effective from: 2019
SEMESTER-I	

Sr. No.	Courses Code	Courses	L-T-P	Credits	
1	BCA101	Computer Fundamentals	3-0-0	3	
2	BCA103	Computer Application & Office Automation	3-0-0	3	
3	BCA105	Introduction to Internet Technology	3-0-0	3	
4	BCA107	Logical Organization of Computer	3-0-0	3	
5	MA151	Mathematical Foundation of Computer Science-I	3-1-0	4	
6	EN101	English Proficiency	2-0-0	2	
7	BCA181	Internet Technology Lab	0-0-3	2	
8	BCA183	Computer Fundamental Lab	0-0-3	2	
9	GP111	General Proficiency	No	n Credit	
	Total Credits			22	
	Total Contact Hours			6 = 24	

SEMESTER-II

Sr. No.	Courses Code	Courses	L-T-P	Credits		
1	BCA102	Problem Solving Using C	3-0-0	3		
2	BCA104	System Analysis and Design	3-0-0	3		
3	BCA106	Fundamental of Operating System	3-0-0	3		
4	BCA108	Digital Logic	3-0-0	3		
5	MA152	Mathematical Foundation of Computer Science-II	3-0-0	3		
6	ES101	Environmental Studies	4-0-0	4		
7	BCA182	C Programming Lab	0-0-3	2		
8	BCA184	Operating System Lab	0-0-3	2		
9	GP122	General Proficiency	No	n Credit		
	Total Credits			23		
		Total Contact Hours	19-0-	6 = 25		

SEMESTER-III

Effective from: 2019

Sr. No.	Courses Code	Courses	L-T-P	Credits
1	BCA201	C++ Programming	3-0-0	3
2	BCA203	Software Engineering Fundamentals	3-0-0	3
3	BCA205	Introduction to Data Base Management System	3-0-0	3
4	BCA207	Data Structure	3-0-0	3
5	BCA209	Introduction To Artificial Intelligence	3-0-0	3
6		Open Elective-1	3-0-0	3
7	BCA281	Data Structure Using C++ Lab	0-0-3	2
8	BCA285	Data Base Management System Lab	0-0-3	2
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9	GP231	General Proficiency	Nor	Credit
	1	Total Credits		22
		Total Contact Hours	18-0-6	5 = 24

SEMESTER-IV

Sr. No.	Courses Code	Courses	L-T-P	Credits
1	BCA202	JAVA Programming	3-0-0	3
2	BCA204	Discrete Structure	3-0-0	3
3	BCA206	Information Security	3-0-0	3
4	BCA208	Theory of Computation	3-0-0	3
5	BCA210	Data Analytics	3-0-0	3
6		Open Elective-2	3-0-0	3
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7	BCA282	JAVA Programming Lab	0-0-3	2
8	BCA292	Minor Project	0-0-6	3
9	GP242	General Proficiency	Non Credit	
	•	Total Credits		23
		Total Contact Hours	18-0-	9 = 27

SEMESTER-V

Effective from: 2019

Sr. No.	Courses Code	Courses	L-T-P	Credits	
1	BCA301	PHP	3-0-0	3	
2	BCA303	Introduction to Compiler Design	3-0-0	3	
3	BCA305	Computer Graphics	3-0-0	3	
4	BCA307	Computer Networks	3-0-0	3	
5		Elective -1	3-0-0	3	
6		Elective -2	3-0-0	3	
7	BCA381	PHP Lab	0-0-3	2	
8	BCA383	Compiler Design Lab	0-0-3	2	
9	GP351	General Proficiency	Non Credit		
	•	Total Credits		22	
		Total Contact Hours	18-0-0	6 = 24	

ELECTIVE -1

S. No.	Courses Code	Courses	L-T-P	Credits
1	BCA309	Machine Learning	3-0-0	3
2	BCA311	Fuzzy Logic	3-0-0	3
3	BCA313	Natural Language Processing	3-0-0	3
4	BCA315	Soft Computing Technique	3-0-0	3

ELECTIVE -2

S. No.	Courses Code	Courses	L-T-P	Credits
1	BCA317	Cyber Security	3-0-0	3
2	BCA319	Multimedia System	3-0-0	3
3	BCA321	Optimization Techniques	3-0-0	3
4	BCA323	Bioinformatics	3-0-0	3

SEMESTER-VI

Sr. No.	Courses Code	Courses	L-T-P	Credits
1	BCA302	.NET Technology	3-0-0	3
2	BCA304	Basics of Internet of Thing	3-0-0	3
3		Elective-3	3-0-0	3
4		Elective-4	3-0-0	3
5	BCA382	.NET Technology Lab	0-0-3	2
6	BCA391	Major Project	0-0-16	8
7	GP252	General Proficiency	Non Credit	
	Total Credits			22
		Total Contact Hours	12-0-	19 = 31

ELECTIVE -3

S. No.	Courses Code	Courses	L-T-P	Credits
1	BCA306	Computer Network Security	3-0-0	3
2	BCA308	Python Programming	3-0-0	3
3	BCA310	Cloud Computing	3-0-0	3
4	BCA312	Introduction to Wireless Technology	3-0-0	3

ELECTIVE -4

S. No.	Courses Code	Courses	L-T-P	Credits
1	BCA314	OOAD using UML	3-0-0	3
2	BCA316	Client-Server Computing	3-0-0	3
3	BCA318	Data Networks	3-0-0	3
4	BCA320	Mobile Computing	3-0-0	3

GRAND TOTAL CREDITS = 134

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