

**TECNIA INSTITUTE OF ADVANCED STUDIES**

GRADE "A" INSTITUTE

Approved by AICTE, Ministry of Education, Govt. of India, Affiliated to G.G.S.I.P. University
Recognized Under Sec. 2(f) of UGC Act 1956.**INSTITUTIONAL AREA MADHUBAN CHOWK, ROHINI, DELHI 110085**
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Ref.No.: TIAS/BCA/2021-22/ 58

Date: 04/07/2021

*Department of Information, Communication & Technology***Bachelor of Computer Application**

List of Courses

S. No	Se m	Code No.	Paper	Type of Course	L	TIP	Credits
1	1	BCA 101	Discrete Mathematics	CCT	3	1	4
2	1	BCA 103	Programming Using 'C' Language	CCT	3	1	4
3	1	BCA 105#	Fundamentals of Computers & IT	CCT	3	1	4
4	1	BCA 107#	Web Technologies	CCT	3	1	4
5	1	BCA 109	Technical Communication	AECC	3	1	4
6	1	BCA 171	Practical-I 'C' Prog. Lab	CCP	0	4	2
7	1	BCA 173#	Practical-II IT Lab	CCP	0	4	2
8	1	BCA 175#	Practical-III Web Tech Lab	CCP	0	4	2
9	1	BCA 181+	Bridge Course in Mathematics Mandatory for Students from Non Mathematics background		2	0	0
10	2	BCA102	Applied Mathematics	CCT	3	1	4
11	2	BCA104	Web based Programming	CCT	3	1	4
12	2	BCA106	Data Structure and Algorithm Using 'C'	CCT	3	1	4
13	2	BCA108#	Database Management System	CCT	3	1	4
14	2	BCA110	Environment Studies	AECC	3	-	3
15	2	BCA132	**MOOC course from SWAYAM/ NPTEL	SEC-1	0	0	2
16	2	BCA134	Front End Design Tool VB.Net Lab	SEC-1	0	4	2
17	2	BCA136	Statistical Analysis using Excel	SEC-1	0	4	2
18	2	BCA138	Designing Lab Photoshop	SEC-1	0	4	2
19	3	BCA172	Practical-IV WBP Lab	CCP	0	4	2

20	3	BCA174	Practical-VDS Lab	CCP	0	4	2
21	3	BCA176#	Practical-VI DBMS Lab	CCP	0	4	2
22	3	BCA201	Computer Network	CCT	3	1	4
23	3	BCA203	Computer Organization and Architecture	CCT	3	1	4
24	3	BCA 205#	Object Oriented Programming with C++	CCT	3	1	4
25	3	BCA207	Human Values and Ethics	AECC	2	0	2
26	3	BCAT 211T#	Basics of Python Programming	DSE-1	4	0	4
27	3	BCAP 211#	Basics of Python Programming Lab	DSE-1	0	2	1
28	3	BCAT 213	Cyber Security	DSE-1	4	0	4
29	3	BCAP 213	Cyber Security Lab.	DSE-1	0	2	1
30	3	BCA221	Principles of Management & Organizational Behaviour	GE-1	3	1	4
31	3	BCA223	Open Elective offered by other Department / School / programme	GE-1	3	1	4
32	3	BCA231	****MOOC course from SWAYAM / NPTEL	SEC-2	0	0	2
33	3	BCA233	Designing Lab CorelDraw	SEC-2	0	4	2
34	3	BCA235	ASP.Net	SEC-2	0	4	2
35	3	BCA237	AR/VR	SEC-2	0	4	2
36	3	BCA239	Cyber Ethics	SEC-2	2	0	2
37	3	BCA 271#	Practical-VIIC++ Lab #	CCP	0	4	2
38	3	BCA 202	Java Programming	CCT	3	1	4
39	3	BCA 204	Software Engineering	CCT	3	1	4
40	3	BCA 206	Introduction to Management & Entrepreneurship Development	AECC	3	1	4
41	3	BCAT 212	Introduction to Data Science	DSE-2	4	0	4
42	3	BCAP 212	Introduction to Data Science Lab.	DSE-2	0	2	1
43	3	BCAT 214	Introduction to Artificial Intelligence	DSE-2	4	0	4
44	3	BCAP 214	Introduction to Artificial Intelligence Lab.	DSE-2	0	2	1
45	3	BCAT 216	Network Security	DSE-2	4	0	4
46	3	BCAP 216	Network Security Lab.	DSE-2	0	2	1

47	3	BCAT 218	Web Development with Python and Django	DSE-2	4	0	4
48	3	BCAP 218	Web Development with Python and Django Lab.	DSE-2	0	2	1
49	3	BCA 222	Digital Marketing	GE-2	3	1	4
50	3	BCA 224	Principles of Accounting	GE-2	3	1	4
51	3	BCA 226	Open Elective offered by other Department/ School /Programme	GE-2	3	1	4
52	4	BCA 232	Personality Development Skills	SEC-3	2	0	2
53	4	BCA 272	Practical-XII Java Lab	CCP	0	4	2
54	4	BCA 274	Practical-IX SELab	CCP	0	4	2
55	4	BCA301	Operating System& Linux Programming	CCT	3	1	4
56	4	BCA303	Computer Graphics	CCT	3	1	4
57	4	BCA305	Cloud Computing	CCT	3	1	4
58	4	BCA307	Minor Project	AECC	0	8	4
59	4	BCAT 311	Machine Learning with Python	DSE-3	4	0	4
60	4	BCAP 311	Machine Learning with Python Lab.	DSE-3	0	2	1
61	4	BCAT 313	Web Security	DSE-3	4	0	4
62	4	BCAP 313	Web Security Lab.	DSE-3	0	2	1
63	4	BCAT 315	Web Development with Java & JSP	DSE-3	4	0	4
64	4	BCAP 315	Web Development with Java & JSP Lab.	DSE-3	0	2	1
65	4	BCA331	**Summer Training Project	SEC-4	0	0	2
66	4	BCA371	Practical-X Linux- OS Lab	CCP	0	4	2
67	4	BCA373	Practical-XI CG Lab	CCP	0	4	2
68	4	BCA302	Data Warehousing & Data Mining	CCT	3	1	4
69	4	BCA304#	E-Commerce	CCT	3	1	4
70	4	BCA306	Internet of Things	CCT	3	1	4
71	4	BCA308	***Major Project	AECC	--	12	6
72	4	BCAT312	Data Visualization & Analytics	DSE-4	4	0	4
73	4	BCAP 312	Data Visualization & Analytics Lab.	DSE-4	0	2	1
74	4	BCAT314	Deep Learning with Python	DSE-4	4	0	4
75	4	BCAP 314	Deep Learning with Python Lab.	DSE-4	0	2	1
76	4	BCA316	IT Act and Cyber Laws	DSE-4	4	1	5

77	4	BCAT318	MobileApplication Development	DSE-4	4	0	4
78	4	BCA332	Seminar/Conference Presentation	SEC-5	0	0	2
79	4	BCA372	Practical-XIII OT Lab	CCP	0	4	2
80	4	BCA374	NSS/NCC/Cultural clubs / Technical Society / Technical club\$	Mand atory	-	-	2

Head of the Department

Department of Information, Communication & Technology

HoD
BCA-TIAS