TECNIA INSTITUTE OF ADVANCED STUDIES

NAAC Grade "A" Institute

Department of Information Communication and Technology (ICT)

Bachelor of Computer Application (BCA)

GGSIPU w. e. f. as on 2011-12 Onwards

Course per-semester

FIRST SEMESTER

Code No.	Paper	Course	L	T/P	Credits
BCA 101	Mathematics – I	Core Course Theory	3	1	4
BCA 103	Technical Communication	Core Course Theory	3	0	3
BCA 105	Introduction to Programming Language using C	Core Course Theory	3	1	4
BCA 107	Introduction to Computers & IT	Core Course Theory	3	1	4
BCA 109	Physics	Core Course Theory	3	1	4
BCA 151	Practical – I C Prog.Lab	Core Course Practical	3	1	4
BCA 153	Practical – II IT Lab	Core Course Practical	3	0	3
BCA 155*	Communication Skills	Core Course Practical	0	4	2

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SECOND SEMESTER

Code No.	Paper	Course	L	T/P	Credits
BCA 102	Mathematics – II	Core Course Theory	3	1	4
BCA 104	Principles of Management	Core Course Theory	3	0	3
BCA 106	Digital Electronics	Core Course Theory	3	1	4
BCA 108	Data Structure Using C	Core Course Theory	3	1	4
BCA 110	Database Management System	Core Course Theory	3	1	4
BCA 152	Practical – III DS Lab	Core Course Practical	0	6	3
BCA 154	Practical – IV DBMS Lab	Core Course Practical	0	6	3
BCA 156*	Cyber Ethics	Core Course Practical	2	0	2

THIRD SEMESTER

Code No.	Paper	Course Type	L	T/P	Credits
BCA 201	Mathematics – III	Core Course Theory	3	1	4
BCA 203	Computer Architecture	Core Course Theory	3	1	4
BCA 205	Front End Design Tool VB.Net	Core Course Theory	3	1	4
BCA 207	Principles of Accounting	Core Course Theory	3	0	3
BCA 209	Object Oriented Programming using C++.	Core Course Theory	3	1	4
BCA 251	Practical – V .NET Lab	Core Course Practical	0	6	3
BCA 253	Practical – VI C++ Lab	Core Course Practical	0	6	3
BCA 255*	Software Development Skills	Core Course Practical	2	0	2

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FOURTH SEMESTER

Code No.	Paper	Course Type	L	T/P	Credits
BCA 202	Mathematics – IV	Core Course Theory	3	1	4
BCA 204	Web Technologies	Core Course Theory	3	1	4
BCA 206	Java Programming	Core Course Theory	3	1	4
BCA 208	Software Engineering	Core Course Theory	3	1	4
BCA 210	Computer Networks	Core Course Theory	3	1	4
BCA 252	Practical – VII Java Lab	Core Course Practical	0	6	3
BCA 254	Practical – VIII Web Tech Lab	Core Course Practical	0	6	3
BCA 256*	Personality Development Skills	Core Course Practical	2	0	2

FIFTH SEMESTER

Code No.	Paper	Course Type	L	T/P	Credits
BCA 301	Operating System	Core Course Theory	3	1	4
BCA 303	Computer Graphics	Core Course Theory	3	1	4
BCA 305	E- Commerce	Core Course Theory	3	1	4
BCA 307	Software Testing	Ability Enhancement Course	3	1	4
BCA 351	Practical – IX CG Lab	Core Course Practical	0	8	4
BCA 355*	Summer Project/ Training	Core Course Practical	0	0	2
BCA 357	Minor Project	Core Course Practical		8	4

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SIXTH SEMESTER

Code No.	Paper	Course Type	L	T/P	Credits
BCA 302	Data Ware Housing & Data Mining	Core Course Theory	3	1	4
BCA 304	Mobile Computing	Core Course Theory	3	1	4
BCA 306	Linux Environment	Core Course Theory	3	1	4
BCA 312	Artificial Intelligence	Discipline Specific Elective	3	1	4
BCA 352	Practical – X Linux Lab	Core Course Practical	0	4	2
BCA 356	Major Project	Core Course Practical		10	5
BCA 358**	Seminar	Core Course Practical	2	0	2