



ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING

Bachelor of Computer Application
(BCA)

Proposed Course Structure

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
UG PROGRAM: Bachelor of Computer Application (BCA)

SEMESTER I

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	MTH11221	Mathematics-I	3	1	0	4	4
2	Theory	CSE11401	Introduction to Programming	3	0	0	3	3
3	Theory	ENG11055	English Communication	3	0	0	3	3
4	Theory	CSE11402	Computer Fundamentals	3	0	0	3	3
5	Theory	EVS11103	Environmental Science	3	0	0	3	3
6	Practical	CSE12403	Programming Lab	0	0	3	3	2
Total				15	1	3	19	18

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
UG PROGRAM: Bachelor of Computer Application (BCA)

SEMESTER II

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	MTH11507	Mathematics-II	3	1	0	4	4
2	Theory	CSE11404	Programming & Data Structures	3	0	0	3	3
3	Theory	ECE11501	Digital Electronics	3	0	0	3	3
4	Theory	CSE11405	Design of Logic Circuits	3	0	0	3	3
5	Theory	CSE11406	Web Designing	3	0	0	3	3
6	Practical	CSE12407	Data Structures Lab	0	0	3	3	2
7	Practical	ECE12502	Digital Electronics Lab	0	0	3	3	2
8	Practical	CSE12408	Web Designing Lab	0	0	3	3	2
Total				15	1	9	25	22

Total Credits (First Year): 40

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
UG PROGRAM: Bachelor of Computer Application (BCA)

SEMESTER III

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	ECS32161	Object Oriented Programming with JAVA	3	0	0	3	3
2	Theory	ECS32163	Programming in Python	3	0	0	3	3
3	Theory	ECS32165	Computer Organization & Architecture	3	0	0	3	3
4	Theory	ECS32167	Database Management System	3	0	0	3	3
5	Practical	ECS32261	Object Oriented Programming Lab	0	0	3	3	2
6	Practical	ECS32263	Python Programming Lab	0	0	3	3	2
7	Practical	ECS32265	Computer Organization Lab	0	0	3	3	2
8	Practical	ECS32267	Database Management System Lab	0	0	3	3	2
Total				12	0	12	24	20

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
UG PROGRAM: Bachelor of Computer Application (BCA)

SEMESTER IV

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	EEC32102	Data Communication & Computer Network	3	0	0	3	3
2	Theory	ECS32162	Algorithm Design	3	0	0	3	3
3	Theory	ECS32164	Operating System	3	0	0	3	3
4	Theory	ECS32166	Introduction to Computer Graphics	3	0	0	3	3
5	Practical	EEC32202	Computer Network Lab	0	0	3	3	2
6	Practical	ECS32262	Algorithm Design Lab	0	0	3	3	2
7	Practical	ECS32264	Operating System Lab	0	0	3	3	2
8	Practical	ECS32266	Computer Graphics Lab	0	0	3	3	2
Total				12	0	12	24	20

Total Credits (Second Year): 20

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
UG PROGRAM: Bachelor of Computer Application (BCA)

SEMESTER V

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	HEC43181	Financial Accounting	3	0	0	3	3
2	Theory	MBA33141	Management Information System	3	0	0	3	3
3	Theory	ECS33161	Artificial Intelligence	3	0	0	3	3
4	Theory	ECS33163	Software Engineering	3	0	0	3	3
5	Theory	ECS33177	Business Communication	3	0	0	3	3
6	Practical	ECS33261	Artificial Intelligence Lab	0	0	3	3	2
7	Practical	ECS33263	Software Engineering Lab	0	0	3	3	2
8	Project	ECS33461	Project-I	-	-	-	-	4
Total				15	0	06	21	23

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
UG PROGRAM: Bachelor of Computer Application (BCA)

SEMESTER VI

Sl. No	Type of Course	Course Code	Course Title	L	T	P	Contact Hrs./Wk.	Credits
1	Theory	MBA32141	E-commerce & Applications	3	0	0	3	3
2	Theory	ECS33162	Cyber Security	3	0	0	3	3
3	Viva	ECS33562	Comprehensive Viva Voce	-	-	-	-	3
4	Project	ECS33462	Project-II	-	-	-	-	8
Total				06	0	0	06	17

Total Credits (Third Year): 40

Total Credits (Over Three Years): 120