



Department of Computer Applications

Course Curriculum

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Scheme for Bachelor of Computer Applications (BCA)

1st Semester

SN	Code	Course Name	Course Type	L	T	P
1	21CAT-111	COMPUTER PROGRAMMING	Program Cor	0	2	0
2	21CAT-112	DIGITAL CIRCUITS AND LOGIC DESIGNS	Program Core	3	1	0
3	21CAT-113	E-COMMERCE	Skill based	2	0	0
4	21UCT-141	COMMUNICATION SKILLS	University Core	2	0	0
5	21SMT-131	MATHEMATICAL FOUNDATION	Mathematics	3	1	0
6	21CAP-114	COMPUTER PROGRAMMING LAB	Program Core Lab	0	0	4
7	21CAP-115	DIGITAL CIRCUITS AND LOGIC DESIGNS LAB	Program Core Lab	0	0	4
8	21UCH-243	DESIGN THINKING AND CREATIVITY FOR INNOVATION	University Core	1	0	0
9	21UCP-142	COMMUNICATION SKILLS LAB	University Core	0	0	2
TOTAL				11	4	8

2nd Semester

SN	Code	Course Name	Course Type	L	T	P
1	21CA T-151	OBJECT ORIENTED PROGRAMMING	Program Core	0	2	0
2	21CA T-152	WEB DESIGNING	Program Core	0		
3	21CA T-153	SOFTWARE ENGINEERING	Skill based	3		
4	21SM T-178	DISCRETE MATHEMATIC AL STRUCTURES	Mathematics	3		
5	21UC H-247	ACADEMIC RESEARCH PAPER WRITING AND IPR	University Core	1		
6	21CAP-154	OBJECT ORIENTED PROGRAMMING LAB	Program Core Lab	0	0	4
7	21CAP-155	WEB DESIGNING LAB	Program Core Lab	0	0	4
8	21CA Y-156	DESKTOP PUBLISHING LAB	Program Core Lab	0	0	2
	21UCP	OFFICE AUTOMATION LAB	Program Core Lab			

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2	21CA T-212	DATABASE MANAGEMENT SYSTEM	Program Core	3	0	0
3	21CA T-213	SYSTEM SOFTWARE	Program Core	3	0	0
4	21CA A-214	WEB SECURITY	Skill based Elective	3	0	0
	21CA B-214	ENTERPRISE RESOURCE PLANNING				
	21CA C-214	OBJECT ORIENTED ANALYSIS AND DESIGN				
5	21SM T-235	PROBABILITY AND STATISTICS	Mathematics	3	1	0
6	21CAP -215	DATA STRUCTURES LAB	Program Core Lab	0	0	4
7	21CAP -216	DATABASE MANAGEMENT SYSTEM LAB	Program Core Lab	0	0	4
8	21CA Y-217	SUMMER TRAINING /INSTITUTIONAL TRAINING - I	Training	0	0	0
9	21TDP -201	SOFT SKILLS	Ability Enhancement Compulsory Course	0	0	2
10	21UC Y-245	ETHICS AND GENDER EQUALITY	University Core	1	0	0
11	21UC Y-246	LIFE SKILLS AND MENTORING - 1	University Core	0	1	0
TOTAL				16	2	10

4th Semester

SN	Code	Course Name	Course Type	L	T	P
1	21CA T-251	INTERNET PROGRAMMING	Program Core	0	2	0
2	21CA T-252	COMPUTER NETWORKS	Program Core	3	0	0
3	21CA T-253	OPERATING SYSTEM	Program Core	3	0	0
4	21CA A-254	BUSINESS INTELLIGENCE	Skill based Elective	3	0	0
5	21CA B-254	ARTIFICIAL INTELLIGENCE				
6	21CA C-254	E-GOVERNANCE				
7	***-***	OPEN ELECTIVE	Open Elective	3	0	0
8	21CA P-255	INTERNET PROGRAMMING LAB	Program Core Lab	0	0	4
9	21CA P-256	LINUX ADMINISTRATION LAB	Program Core Lab	0	0	4
10	21TD T-252	APTITUDE	Ability Enhancement Compulsory Course	0	2	0
11	21UC H-299	ENTREPRENEURSHIP	University Core	1	0	0
12	21UC Y-294	ENVIRONMENT, WASTE AND DISASTER MANAGEMENT	University Core	2	0	0
13	21UC Y-296	LIFE SKILLS AND MENTORING - 2	Ability Enhancement Compulsory Course	0	1	0
TOTAL				12	5	8

5th Semester

SN	Code	Course Name	Course Type	L	T	P
1	21CAT -311	WEB TECHNOLOGIES	Program Core	0		
2	21CAT -312	COMPUTER GRAPHICS	Program Core	3		
3	21CAT -313	COMPUTER SYSTEM ARCHITECTURE	Program Core	3	0	0
4	21CA A-314	SOCIAL MEDIA AND ANALYTICS	Program Elective	0	2	0
	21CA B-314	MULTIMEDIA AND ANIMATION				
	21CA C-314	NETWORK ADMINISTRATION AND CONFIGURATION				

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8	21CA A-318	SOCIAL MEDIA AND ANALYTICS LAB	Program Elective Lab	0	0	4
9	21CA B-318	MULTIMEDIA AND ANIMATION LAB				
10	21CA C-318	NETWORK ADMINISTRATI ON AND CONFIGURATIO N LAB				
11	21CA R-319	MINOR PROJECT	Minor Project	0	0	0
12	21CA Y-320	SUMMER TRAINING /INSTITUTIONA L TRAINING - II	Training	0	0	0
13	21UC Y-346	LIFE SKILLS AND MENTORING	University Core	0	1	0
TOTAL				6	5	16

6th Semester

SN	Code	Course Name	Course Type	L	T	P
1	21CAT -351	MOBILE APPLICATION DEVELOPMENT	Program Core	0	2	0
2	21CAT -352	MICROPROCESS OR AND INTERFACING	Program Core	3	0	0
3	21CAT -353	SOFTWARE TESTING	Program Core	3	0	0
4	21CA A-354	ADVANCED SOCIAL MEDIA AND ANALYTICS	Program Elective	0	2	0
	21CA B-354	ADVANCED MULTIMEDIA AND ANIMATION				
	21CA C-354	ADVANCED NETWORK ADMINISTRATI ON AND CONFIGURATIO N				
5	21CAP -355	MOBILE APPLICATION DEVELOPMENT LAB	Program Core Lab	0	0	4
6	21CAP -356	MICROPROCESS OR AND INTERFACING LAB	Program Core Lab	0	0	4
7	21CA A-357	ADVANCED SOCIAL MEDIA AND ANALYTICS LAB	Program Elective Lab	0	0	4
8	21CA B-357	ADVANCED MULTIMEDIA AND ANIMATION LAB				
9	21CA C-357	ADVANCED NETWORK ADMINISTRATI ON AND CONFIGURATIO N LAB				
10	21CA R-358	MAJOR PROJECT	Major Project	0	0	0
11	20UC Y-396	LIFE SKILLS AND MENTORING	Universi ty Core	0	1	0
TOTAL				4	5	12

SN	Code	Course Name	Course Type	L	T	P
1	21CAI -360	INDUSTRIA L TRAINING	Training	0	0	0
TOTAL				0	0	0

Scheme for BCA (AR and VR)

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