

Programme: BCA

Computer Applications

Scheme

w.e.f. Academic Session 2026-2027



BUEST

SCHOOL OF ENGINEERING & EMERGING TECHNOLOGIE

SEMESTER –I

Sr.No	Code	Course Title	L	T	P	Credit
1	UCA-101	Fundamentals of Computers and Information Technology	3	1	4	5.5
2	UMA-121	Mathematics-I	3	1	0	3.5
3	UCA-103	Programming in C	3	1	4	5.5
4	UMG-104	Introduction to Financial Accounting and Accounting Packages	3	1	0	3.5
5	UCA-107	Internet and Web Technologies	3	1	0	3.5
6	UPD-101	Personality Development Programme	2	0	0	2

Total Hours: 30

SEMESTER –II

Sr.No	Code	Course Title	L	T	P	Credit
1	UCA-151	Data Structures Using C	3	1	4	5.5
2	UMA-161	Mathematics-II	3	1	0	3.5
3	UHU-101	Effective Communication Skills	3	1	0	3.5
4	UEC-161	Digital Circuits and Logic Design	3	1	0	3.5
5	UCA-153	Management Information System	3	1	0	3.5
6	UPD-151	Personality Development Programme	2	0	0	2

Total Hours: 26

SEMESTER –III

Sr.No	Code	Course Title	L	T	P	Credit
1	UCA-201	Introduction to Operating System	3	1	4	5.5

1	UMG-476	Human Ethics & values	3	1	0	3.5
2	UEC-462	Biomedical Instrumentation	3	1	0	3.5
3	UEC-463	Television Engineering	3	1	0	3.5
4	UEE-403	Energy Management	3	1	0	3.5
5	UEE-452	Non-Conventional Electrical Power Generation	3	1	0	3.5
6	UCE-312	Advance Construction Techniques and Project Management	3	1	0	3.5

Total Contact Hours: 34

SEMESTER-VI

Sr.No	Code	Course Title	L	T	P	Credit
1	UCA-351	Software Engineering	3	1	0	3.5
2	UCA-352	Cyber Security	3	1	0	3.5
3	UCA-353	Computer Graphics	3	1	4	5.5
4	UCA-XXX	Departmental Elective-I	3	1	0	3.5
5	UCA-354	Major Project	0	0	4	2
6	UPD-351	Personality Development Programme	2	0	0	2
7	UXX-XXX	Open Elective -2 / Open Elective- 3	3	1	0	3.5
Departmental Elective 1						
1	UCA-391	Block Chain	3	1	0	3.5
2	UCA-392	Mobile Computing	3	1	0	3.5
3	UCA-393	Deep Learning	3	1	0	3.5
4	UCA-394	E-Commerce	3	1	0	3.5
5	UCA-395	Introduction to IOT	3	1	0	3.5
6	UCA-396	Data Warehousing & Data Mining	3	1	0	3.5
Open Elective 2						
1	UMG-450	Entrepreneurship Development & Enterprise Management	3	1	0	3.5

2	UEC-464	Satellite Communication	3	1	0	3.5
3	UEC-465	Digital Signal Processing & Applications	3	1	0	3.5
4	UEE-457	Transformer Engineering	3	1	0	3.5
5	UEE-411	Direct Energy Conversion	3	1	0	3.5
6	UCE-311	Advance Concrete Technology	3	1	0	3.5
7	UCE-409	Geographic Information Systems for Resources Management	3	1	0	3.5
8	UME –464	Renewable Energy Sources	3	1	0	3.5
9	UME – 466	Automation & Robotics	3	1	0	3.5
Open Elective 3						
1	UMG-475	Total Quality Management	3	1	0	3.5
2	UEC-466	Optical Communication	3	1	0	3.5
3	UEC-467	Principles of Digital Communication	3	1	0	3.5
4	UCE-476	Disaster Management	3	1	0	3.5
5	UCE-412	Building Project and Estimates	3	1	0	3.5
6	UEE-456	Hydro Power Station Design	3	1	0	3.5
7	UEE-408	Illumination Engineering	3	1	0	3.5
8	UME – 459	Engineering in Industry & Entrepreneurship	3	1	0	3.5
9	UME – 458	Emerging Automotive Technologies	3	1	0	3.5

Total Contact Hours: 30

