COURSE OUTLINE: YEAR1
BCA 2024 AB & 2025 AB

SEM-I (July-December, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						STest/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	C-I-P1	Problem Solving Using C Programming	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	C-I-P2	Introduction to Python Programming	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	Min-I-P1	Digital Logic	4	T-60	5M	10M	5M	20M	--	60M	--
4	MDC-1	Principles of Management	3	T-45	5M	10M	5M	20M	--	60M	--
	MDC-2	Computer Fundamentals									
5	AEC-1	Odia	4	T-60	5M	10M	5M	20M	--	60M	--
	00-01	Hindi									
	AEC-4	Sanskrit									
	AEC-5	Urdu									
6	VAC-1	Environmental Studies and Disaster Management	3	T-45	5M	10M	5M	20M	--	60M	--
Total Credits			22	Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							

SEM-II (January-June, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						STest/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	C-I-3	Data Structures	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	C-I-4	Object Oriented Programming using C++	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	C-III-1	Probability & Statistics	4	T-60	5M	10M	5M	20M	--	60M	--
4	MDC-II	Principles of Management	3	T-45	5M	10M	5M	20M	--	60M	--
	MD-2	Web Technology									
	MDC	Organizational Behaviour									
	MDC-P2	Environmental Education									
5	AEC-2	English	4	T-60	5M	10M	5M	20M	--	60M	--
6	SEC-1	Advance Python	3	T-45	5M	10M	5M	20M	--	60M	--
	SEC-P-1	Analytical Ability and Reasoning									
Total Credits			22	Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							

COURSE OUTLINE: YEAR2
BCA 2024 AB & 2025 AB

SEM-III (July-December, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						S.Test/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	C-I-5	Database Management System	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	C-I-6	Computer Organization & Architecture	4	T-60	5M	10M	5M	20M	--	60M	--
3	C-I-7	Operating System	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
4	C-II-2	Discrete Mathematics	4	T-60	5M	10M	5M	20M	--	60M	--
5	MDC-3	Internet & Ethical Practice	3	T-45	5M	10M	5M	20M	--	60M	--
	MDC-4	Professional Writing									
	MDC-5	Introduction to Web Tech									
	MDC-6	History of Environment & Ecology in Modern India									
	MDC-7	Entrepreneurship Dev									
6	VAC-2	Organizational Behavior	3	T-45	5M	10M	5M	20M	--	60M	--
	VAC-3	Ethics & Values									
Total Credits 22				Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							

SEM-IV (January-June, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						S.Test/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	C-I-8	Computer Graphics	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	C-I-9	Web Development with PHP	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	C-I-10	Computer Network	4	T-60	5M	10M	5M	20M	--	60M	--
4	C-III-2	Numerical Techniques	4	T-60	5M	10M	5M	20M	--	60M	--
5		Community Engagement & Services/ Field work / Internship	4	120	100 Marks						
Total Credits 20				Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							

COURSE OUTLINE: YEAR3
BCA 2024 AB & 2025 AB

SEM-V (July-December, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attend ance	Sessional		Mid-Sem		End-Sem	
						S.Test/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	C-I-11	Software Engineering	4	T-60	5M	10M	5M	20M	--	60M	--
2	C-I-12	(A) Introduction to Artificial Intelligence / (B) Introduction to Data Science	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	C-I-13	Programming in Java	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
4	C-II-8	Combinatories & Graph Theory	4	T-60	5M	10M	5M	20M	--	60M	--
	C-II-9	Optimization Technique									
5	SEC-4	Fundamentals of Data Science & Management	3	T-45	5M	10M	5M	20M	--	60M	--
6	VAC	Introduction to Artificial Intelligence	3	T-45	5M	10M	5M	20M	--	60M	--
		Total Credits	22	Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							

SEM-VI (January-June, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attend ance	Sessional		Mid-Sem		End-Sem	
						S.Test/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	C-I-14	Algorithm Design Techniques	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	C-I-15	Project Work-I	4	100 Marks							
3	C-III-3	Optimization Technique	4	T-60	5M	10M	5M	20M	--	60M	--
4	SEC		3	T-45	5M	10M	5M	20M	--	60M	--
5	VAC		3	T-45	5M	10M	5M	20M	--	60M	--
		Total Credits	18	Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							