

**PG DEPARTMENT OF COMPUTER SCIENCE
BCA (HONOURS) PROGRAMME
COURSE STRUCTURE**

SEMESTER 1

SL.NO	COURSE CODE	COURSE TITLE
1	BCA1CJ101	Core Course 1 in Major Fundamentals of Computers and Computational Thinking
2	BCA1CJ 102	Core Course 2 in Major Mathematical Foundation for Computer Applications
3	BCA1CJ 103	Core Course 3 in Major Discrete Structures for Computer Applications
4	BCA1FM 105	MDC/MDE – 1 Digital Marketing
5	BCA1FS111	Skill Enhancement Course 1 Introduction to Computers and Office Automation
6	ENG1FA101(2)	Ability Enhancement Course 1 English
		Ability Enhancement Course 2 Additional Language

SEMESTER 2

SL.NO	COURSE CODE	COURSE TITLE
1	BCA2CJ101	Core Course 4 in Major Fundamentals of Programming (C Language)
2	BCA2CJ102	Core Course 5 in Major Statistical Foundation for Computer Applications
3	BCA2CJ103	Core Course 6 in Major Numerical Analysis and Optimization Techniques
4	BCA2FS112	Skill Enhancement Course 2 Data Analysis using Spread Sheet
5	ENG2FA103(2)	Ability Enhancement Course 3 English
		Ability Enhancement Course 4 Additional Language

SEMESTER 3

SL.NO	COURSE CODE	COURSE TITLE
1	BCA3CJ201	Core Course 7 in Major Data Structures using C
2	BCA3CJ202	Core Course 8 in Major

		Computer Networks
3	BCA3CJ203	Core Course 9 in Major Introduction to Data Science
4	BCA3CJ204	Core Course 10 in Major Foundations of Artificial Intelligence
5	BCA3FS113	Skill Enhancement Course 3 Website Designing using Content Management System
		MDC/MDE 2 – (E/AL) Kerala Knowledge System

SEMESTER 4

SL.NO	COURSE CODE	COURSE TITLE
1	BCA4CJ205	Core Course 11 in Major Database Management System
2	BCA4CJ206	Core Course 12 in Major Python Programming
3	BCA4CJ207	Core Course 13 in Major Software Engineering
4	BCA4CJ208	Core Course 14 in Major Automation and Robotics
5	BCA4FV108	Value-Added Course 1 Introduction to Cyber Laws
6	ENG4FV109(2)	Value-Added Course 2 English

SEMESTER 5

SL.NO	COURSE CODE	COURSE TITLE
1	BCA5CJ301	Core Course 15 in Major Object Oriented Programming (Java)
2	BCA5CJ302	Core Course 16 in Major Progressive Web Application using PHP
3	BCA5CJ303	Core Course 17 in Major Digital Fundamentals and Computer Organization
4	BCA5EJ301(X)	Elective Course 1 in Major
5	BCA5EJ302(X)	Elective Course 2 in Major
6	BCA5FS114	Skill Enhancement Course 4 Professional Skill Development for IT Career Excellence
7	BCA5FS115	Skill Enhancement Course Internship 1
8		Audit Course 1

SEMESTER 6

SL.NO	COURSE CODE	COURSE TITLE
1	BCA6CJ304	Core Course 18 in Major Introduction to AI and ML
2	BCA6CJ305	Core Course 19 in Major Principles of Operating System
3	BCA6EJ303(X)	Elective Course 3 in Major
4	BCA6EJ304(X)	Elective Course 4 in Major
5	BCA6FV110	Value-Added Course 2 Business Intelligence and Innovation
6	BCA6FS 116	Skill Enhancement Course Project 1
7		Audit Course 2

SEMESTER 7

SL.NO	COURSE CODE	COURSE TITLE
1	BCA7CJ401	Core Course 20 in Major Advanced Data Structures and Algorithms
2	BCA7CJ402	Core Course 21 in Major Data Science Programming using R
3	BCA7EJ401(X)	Elective Course 5 in Major
4	BCA7EJ402(X)	Elective Course 6 in Major
5	BCA7EJ403(X)	Elective Course 7 in Major (in Honours with Research Programme)
6	BCA7OE401(X)	Open Elective in Major (in Honours Programme)
7	BCA7FS117	Skill Enhancement Course Internship 2

SEMESTER 8

SL.NO	COURSE CODE	COURSE TITLE
1	BCA8EJ404(X)	Elective Course 8 in Major (in Honours Programme)
2	BCA8EJ405(X)	Elective Course 9 in Major (in Honours Programme)
3	BCA8EJ406(X)	Elective Course 10 in Major (in Honours Programme)
4	BCA8FS118	Skill Enhancement Course Project 2 (in Honours Programme)
	BCA8FS119	Skill Enhancement Course Research Project (in Honours with Research Programme)

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