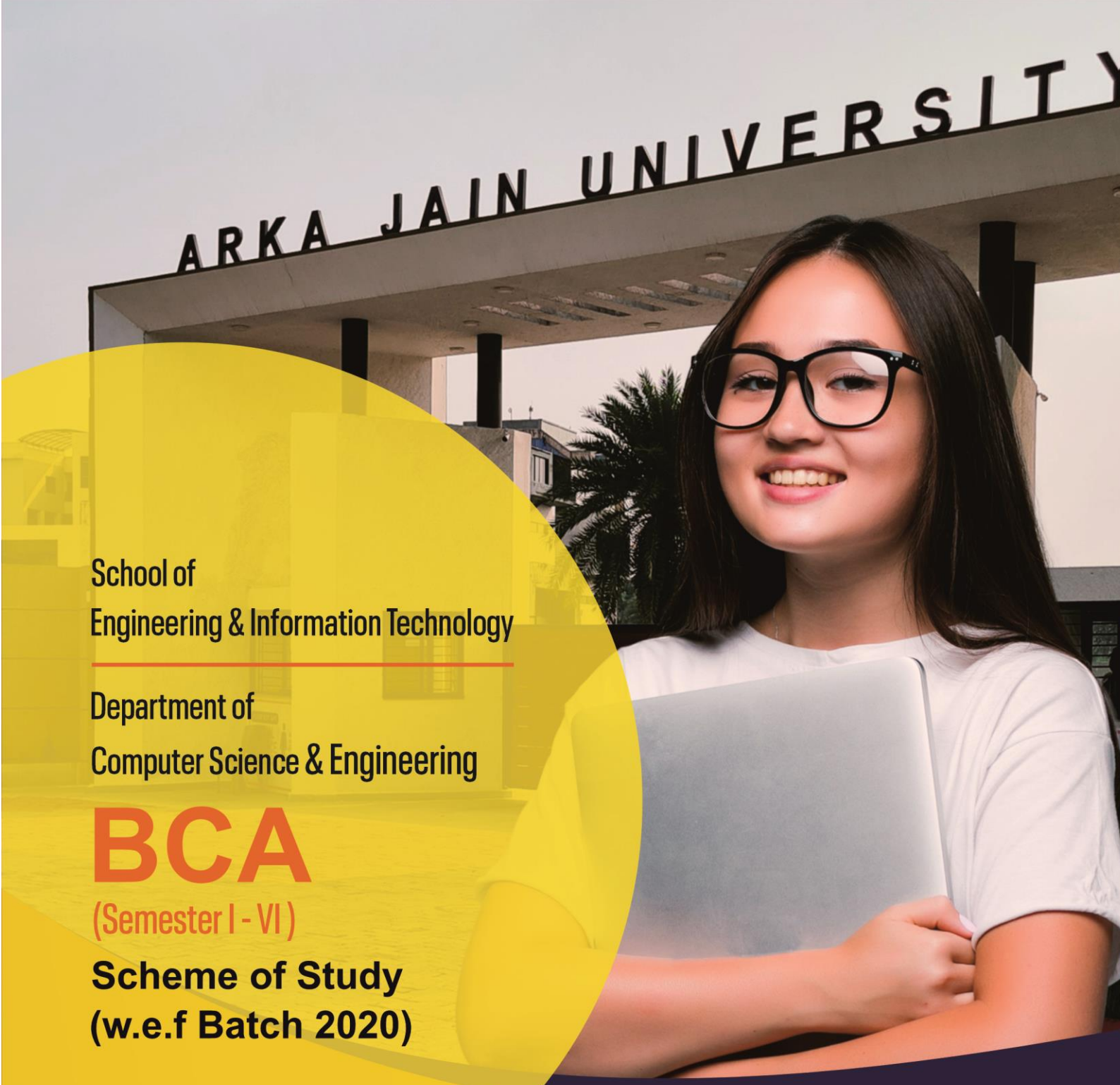


School of
Engineering & Information Technology

Department of
Computer Science & Engineering

BCA

(Semester I - VI)

Scheme of Study
(w.e.f Batch 2020)

JGi

ARKA JAIN University
Jharkhand

Approved in the 16th Academic Council Meeting held on dated 25th November 2020

SEMESTER -I

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA *	Attendance
Introduction to Computer Science	Core	5	5	100	70	20	5	5
Programming In C	Core	5	5	100	70	20	5	5
Discrete Mathematics	GS	5	5	100	70	20	5	5
Business Communication	AECC	5	5	100	70	20	5	5
Computer Science Lab	Core	2	4	50	35	10	2.5	2.5
Programming In C Lab	Core	2	4	50	35	10	2.5	2.5
Total		**24**	**28**	**500**	**350**	**100**	**25**	**25**

SEMESTER –II

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA *	Attendance
Data Structure through C	Core	5	5	100	70	20	5	5
Object Oriented Programming with C++	Core	5	5	100	70	20	5	5
Operating System	Core	5	5	100	70	20	5	5
Numerical & Statistical Methods	GS	5	5	100	70	20	5	5
Environmental Science	AECC	5	5	100	70	20	5	5
Data Structure through C Lab	Core	2	4	50	35	10	2.5	2.5
Object Oriented Programming with C++ Lab	Core	2	4	50	35	10	2.5	2.5
Total		**28**	**32**	**600**	**420**	**120**	**30**	**30**

SEMESTER –III

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA *	Attendance
Programming with Java	Core	5	5	100	70	20	5	5
Design and Analysis of Algorithms	Core	5	5	100	70	20	5	5
Database Management System	Core	5	5	100	70	20	5	5
Data Communication & Networking	Core	5	5	100	70	20	5	5
Python Programming	SECC	4	4	100	70	20	5	5
Programming with Java Lab	Core	2	4	50	35	10	2.5	2.5
Database Management System Lab	Core	2	4	50	35	10	2.5	2.5
Python Programming Lab	SECC	2	4	50	35	10	2.5	2.5
TOTAL		**30**	**36**	**650**	**455**	**130**	**32.5**	**32.5**

SEMESTER –IV

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA *	Attendance
Introduction to Data Science	Core	5	5	100	70	20	5	5
Internet of Things	Core	5	5	100	70	20	5	5
Data Science - Elective I	DSE	5	5	100	70	20	5	5
IOT - Elective I								
AI - Elective I								
Data Science - Elective II	DSE	5	5	100	70	20	5	5
IOT - Elective II								
AI - Elective II								
Data Science - Elective I	**DSE**	2	4	50	35	10	2.5	2.5
IOT - Elective I								
AI - Elective I								
Data Science - Elective II	DSE	2	4	50	35	10	2.5	2.5
IOT - Elective II								
AI - Elective II								
TOTAL		**24**	**28**	**500**	**350**	**100**	**25**	**25**

SEMESTER –V

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA *	Attendance
Enterprise Java	Core	5	5	100	70	20	5	5
Machine Learning	Core	5	5	100	70	20	5	5
Mobile Application Development	SECC	4	4	100	70	20	5	5
Data Science - Elective III	DSE	5	5	100	70	20	5	5
IOT - Elective III								
AI - Elective III								
Data Science - Elective IV	DSE	5	5	100	70	20	5	5
IOT - Elective IV								
AI - Elective IV								
Enterprise Java Lab	Core	2	4	50	35	10	2.5	2.5
Machine Learning Lab	Core	2	4	50	35	10	2.5	2.5
Mobile Application Development Lab	SECC	2	4	50	35	10	2.5	2.5
TOTAL		**30**	**36**	**650**	**455**	**130**	**32.5**	**32.5**

SEMESTER –VI

Name of the Subject	Type of Paper	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA *	Attendance
Software Engineering	Core	5	5	100	70	20	5	5
Data Science - Elective V	DSE	5	5	100	70	20	5	5
IOT - Elective V								
AI - Elective V								
Data Science - Elective VI	DSE	5	5	100	70	20	5	5
IOT - Elective VI								
AI - Elective VI								
Project	DSE	5	5	100	70	30	0	0
Data Science - Elective V	DSE	2	4	50	35	10	2.5	2.5
IOT - Elective V								
AI - Elective V								
Data Science - Elective VI	DSE	2	4	50	35	10	2.5	2.5
IOT - Elective VI								
AI - Elective VI								
TOTAL		**24**	**28**	**500**	**350**	**110**	**20**	**20**