

### Bachelor of Computer Applications (BCA - Regular) (044)

The Programme - Bachelor of Computer Applications - aims to provide strong knowledge of computer fundamentals, programming basics, logical and numerical methods, networking and internet, database and applications packages.

#### Course Objectives

- To disseminate the advance knowledge in Information Technology.
- To develop core competencies in Computer Applications.
- To create efficient professionals in IT industries.

**Eligibility** : 12<sup>th</sup> passed with minimum 55% marks or its equivalent.

**Duration** : 3 years (Six Semesters)

**Student Intake** : 60

#### Fee Structure for the academic year 2024-25 :

BCA Regular (044)							
First Year		Second Year		Third Year		Honours	
Eligibility	1000	Eligibility	-	Eligibility	-	Eligibility	-
Admission	2000	Admission	2000	Admission	2000	Admission	2000
Tuition	35000	Tuition	40000	Tuition	44000	Tuition	47000
Laboratory / Practical	18500	Laboratory / Practical	18500	Laboratory / Practical	18500	Laboratory / Practical	18500
Library	500	Library	500	Library	500	Library	500
Examination	3000	Examination	3000	Examination	3000	Examination	3000
<b>Total</b>	<b>60000</b>	<b>Total</b>	<b>64000</b>	<b>Total</b>	<b>68000</b>	<b>Total</b>	<b>71000</b>

**Library Deposit 2000/-**

**Caution Deposit 5000/-**

- Opportunities at exit point** :
- 1) In IT as a Software Professional
  - 2) Software / Hardware / Technical Support in Multi-National Companies
  - 3) Can run own Business for Hardware/Technical support
  - 4) In Teaching Field
  - 5) As Web Designer / Developer
  - 6) Software Testing
  - 7) Higher Education - MCA / MSC / MBA / Other PG Qualification

## COURSE STRUCTURE

As per U.G.C. norms Choice Based Credit System is implemented from the academic year 2015-16  
Details are available with the department.

### FIRST YEAR

#### Semester - I

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
BCA23-101	C Programming	Core	3	60	40	100	3	-
BCA23-102	Mathematics	Core	4	60	40	100	4	-
BCA23-103	Computer & Network Fundamentals	Interdisciplinary	3	60	40	100	3	-
BCA23-104	Operating System	DSC	3	60	40	100	3	-
BCA23-105 OR BCA23-106	English OR Sanskrit	AECC	2	30	20	50	2	-
VAC105 OR VAC109	Nitishataka Purvardha (Marathi) OR Gender Perspectives	Open Elective	2	-	50	50	2	-
BCA23-107	Logic Development	DSC	2	-	50	50	2	-
BCA23-108	C Programing (PR)	Core-LAB	1	30	20	50	-	1
			<b>20</b>			<b>600</b>		

## Semester - II

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
BCA23-201	Object Oriented Programming using C++	Core	3	60	40	100	3	-
BCA23-202	Statistics	Core	4	60	40	100	4	-
BCA23-203	Structured System Analysis and Design	DSC	3	60	40	100	3	-
BCA23-204	Principles and Practices of Management - I	Multidisciplinary	3	60	40	100	3	-
BCA23-205	Communication Skills	AECC	2	30	20	50	2	-
BCA23-206 OR VAC207 OR VAC211	Yoga OR Nitishataka Uttarardha (Marathi) OR Moral Values	Open Elective	2	30 - -	20 50 50	50 50 50	- 2 2	2 - -
IKS24	Indian Knowledge System (IKS)	IKS	2	-	50	50	2	-
BCA23-209	Object Oriented Programming using C++ (PR)	Core-Lab	1	30	20	50	-	1
			<b>20</b>			<b>600</b>		

## Semester - III

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
BCA23-301	Advanced Web Designing	Core	3	60	40	100	3	-
BCA23-302	Database Management System (DBMS)	Core	3	60	40	100	3	-
BCA23-303	Environmental Studies	Value Added Course	4	60	40	100	4	-
BCA23-304	Principles and Practices of Management - II	Multidisciplinary	3	60	40	100	3	-
BCA23-305 OR BCA23-306	Marathi OR Japanese	AECC	2	30	20	50	2	-
SEC-301	Advanced Excel	Skill Enhancement Course	2	-	50	50	2	-
BCA23-307	Introduction to IoT	DSC	2	-	50	50	2	-
BCA23-308	Advanced Web Designing (PR)	Core-Lab	1	30	20	50	-	1
			<b>20</b>			<b>600</b>		

## Semester - IV

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
BCA23-401	Advanced Database Management System	Core	3	60	40	100	3	-
BCA23-402	Java Programming	Core	3	60	40	100	3	-
BCA23-403	Software Testing & Quality Assurance	DSC	3	60	40	100	3	-
BCA23-404	Unified Modeling Language (UML)	DSC	3	60	40	100	3	-
BCA23-405	Content Writing	Skills Enhancement Course	2	30	20	50	2	-
BCA23-406 OR VAC403	Soft Skills OR Personality Development	Open Elective	2	-	50	50	1	1
VAC408	Fundamentals of Share Trading	Value Added Course	2	-	50	50	2	-
BCA23-408	Java Programming (PR)	Core-LAB	1	30	20	50	-	1
BCA23-409	Advanced Database Management System (PR)	Core-LAB	1	30	20	50	-	1
			<b>20</b>			<b>650</b>		

## Semester - V

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
BCA23-501	Python Programing	Core	3	60	40	100	3	-
BCA23-502	Linux	Core	3	60	40	100	3	-
BCA23-503	C# Basics	DSC	2	-	50	50	2	-
BCA23-504	E-Commerce	Interdisciplinary	3	60	40	100	3	-
BCA23-505	Data Mining	DSC	2	-	50	50	2	-
BCA23-506	Business Applications	Interdisciplinary	2	30	20	50	2	-
BCA23-507	Management Information System	Multidisciplinary	3	60	40	100	3	-
BCA23-508	Python Programming (PR)	Core-LAB	1	30	20	50	-	1
BCA23-509	Linux (PR)	Core-LAB	1	30	20	50	-	1
			<b>20</b>			<b>650</b>		

## Semester - VI

Subject Code	Name of Subject	Category of Subject	Total Credits	Ext. Marks	Int. Marks	Total Marks	Credits	
							TH	PR
BCA23-601	Advanced Java	Core	3	60	40	100	3	-
BCA23-602	Android Application Development							
BCA23-603	Cloud Technology	DSC	3	60	40	100	3	-
BCA23-604	Project	Core	4	60	40	100	-	4
BCA23-605	Organizational Behavior	Interdisciplinary	2	30	20	50	2	-
SEC-401	Digital Marketing	Skill Enhancement Course	2	-	50	50	2	-
BCA23-606	Internship	Internship	4	-	100	100	-	4
BCA23-607	Advanced Java (PR)	Core-LAB	1	30	20	50	-	1
BCA23-608	Android Application Development (PR)							
BCA23-609	Cloud Technology (PR)	DSC-LAB	1	30	20	50	-	1
			<b>20</b>			<b>600</b>		