



# SRINIVAS UNIVERSITY

Srinivas Nagar, Mukka- 574 146, Mangalore, Karnataka, Phone :0824-2477456  
(State Private University Established by Karnataka Govt. ACT No.42 of 2013, Recognized by  
UGC, New Delhi, & Member of Association of Indian Universities, New Delhi)

Web :[www.srinivasuniversity.ac.in](http://www.srinivasuniversity.ac.in), Email: info@srinivasuniversity.ac.in

**Administrative Office :GHS Road, Mangalore-01, Phone 0824-2425966**

## **COLLEGE OF COMPUTER & INFORMATION SCIENCE** **Bachelor of Computer Application (BCA)** **(BCA in Data Science and Mobile Apps)**

**Duration:** 3 years, Six semesters. (Admissions open for the academic year 2021-22)

**Eligibility:** Pass in the 10+2 /12th standard with minimum 40% marks. Admission needs valid score in SUAT

**Course is offered @ College of Computer Science & Information Science,  
Srinivas University - City Campus, Mangalore. Phone :0824-2441022.**

### **About BCA in Data Science and Mobile Application:**

Internet has been connecting people around the world like never before. With evolution in digital technology, traditional business models have been resulted with huge amount of data. Organizations are looking for ways to better connect with their consumers and serve them better with newer look. Data Science and Mobile applications have been one of the means in which companies are connecting with consumers with better decisions. Today, an application is capable of solving complex real-world problems. By adapting to this new technology platform, organizations can digitalize their services and product offerings. Hence there is growing demand for graduates who have specialized knowledge in such new-age domains. The need for advanced programs has motivated Srinivas University to offer BCA in Data Science and Mobile Application.

### **Program Objectives:**

- The program is designed to cater to the needs of the industry. It trains students in all those subjects that can enable them to take on responsible roles in new-age domains.
- Gain fundamental knowledge of programming in C++, Python, DBMS, data structure and algorithms and UNIX and Shell scripting

### **Special Features of the Program:**

- Classes will be held between 9.00 am and 2.00 pm with half an hour break during week days.
- E-Study material will be provided from the college for every subject according to the syllabus.
- Industry oriented syllabus with special focus on experimental learning.
- Mini project in each semester.
- Campus recruitment facility and higher education opportunity leading to MCA and MBA.
- Innovations in examination system with opportunity to see the evaluated papers in person.
- 50% weightage of marks on continuous evaluation and 50% weightage on semester end exam.
- Make-up exams in every semester to avoid year loss.
- Placement support and research oriented projects for every student.
- Focus on smart skill development and training for competitive exams.
- Separate Hostels & Transport facility for boys & Girls.

## Career Opportunities:

Data Science Engineer, Data Analyst, IT Engineer, Mobile App Developer, Cloud Operations Engineer, System Administrator and Application Developer.

## Programme Structure :

SEMESTER 1			SEMESTER 2		
S.No.	Subjects	Marks	S.No.	Subjects	Marks
1	Professional Communication I	100	1	Professional Communication II	100
2	Foundation of Information Technology	100	2	Basics of Networking	100
3	Computer Organization	100	3	Database Management using MySQL	100
4	Programming Language C++	100	4	Object Oriented Programming Concepts using C++	100
5	Lab on FIT	100	5	Lab on MySQL	100
6	Lab on C++	100	6	Lab on OOPS	100
7	Indian Constitution & Environmental Studies	100	7	Basic Mathematics & Statistics	100
8	Hindi/Kannada/Malayalam	-	8	Hindi/Kannada/Malayalam	-
9	Employability Skill Development Programme I	50	9	Employability Skill Development Programme II	50
10	Minor Project	50	10	Minor Project	50
	<b>Total Marks</b>	<b>800</b>		<b>Total Marks</b>	<b>800</b>
SEMESTER 3			SEMESTER 4		
1	Data Structure using C++	100	1	Network Security	100
2	Operating System	100	2	Programming in JAVA	100
3	Mobile Device and Network Architecture	100	3	Applied Data Science	100
4	Information Security Fundamentals	100	4	Basic Android Programming	100
5	Client side scripting	100	5	Fundamentals of storage	100
6	Lab on Client side scripting	100	6	Lab on JAVA	100
7	Lab on DS and OS	100	7	Lab on Python	100
9	Employability Skill Development Programme III	50	9	Employability Skill Development Programme IV	50
10	Minor Project	50	10	Minor Project	50
	<b>Total Marks</b>	<b>800</b>		<b>Total Marks</b>	<b>800</b>
SEMESTER 5			SEMESTER 6		
1	Python for Data Science	100	1	Project Work / Dissertation carrying 18 credits Marks 800	800
2	Mobile, Wireless and VOIP Security	100	2		
3	Advanced Android Programming	100	3		
4	Object Oriented Analysis and Design	100	4		
5	Big data analytics (E1)	100	5		
	Cloud Technology (E2)				
6	Lab on Data Science	100	6		
7	Lab on Advanced Android Programming	100	7		
8	Minor Project	50	8		
9	Employability Skill Development Programme V	50			
	<b>Total Marks</b>	<b>800</b>		<b>Total Marks</b>	<b>800</b>

College of Computer & Information Science

CREATING INNOVATORS



SRINIVAS UNIVERSITY

Educating the Next Generation