

In order to clear this paper minimum 50% marks must be scored both in internal and well as external examination. **University Exam Manual Procedures are followed for all the activities related to external examinations.**

SRINIVAS UNIVERSITY - BCA COURSE TABLE					
Semester	Credits	Marks			
1	24	600	-		
2	24	600	Certificate in Computer Application @ 48 Credits		
3	24	600	-		
4	24	600	Diploma in Computer Application @ 96 Credits		
5	24	600	-		
6	24	600	Degree in Computer Application @ 144 Credits		
7	24	600	Only Students with CGPA >= 7.5 are Eligible		
8	24	600	BCA Honors Degree @ 192 Credits		
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SEMESTER – 1					
Sl.No	Course Code	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA11	Problem-Solving using C	4+0+0	50+50=100	4
2	24BCA12	Foundation of Information Technology	4+0+0	50+50=100	4
3	24BCA13	Basics of Internet and Web Design	4+0+0	50+50=100	4
6	24BCA11P	Lab on Problem-Solving using C	0+0+4	25+25=50	2
7	24BCA12P	Lab on Foundation of Information Technology	0+0+4	25+25=50	2
4	24BCA1EXX	Open Elective-1*	3+0+2	50+50=100	4
5	24BCA1L1	English	2+0+1	25+25=50	2
8	24BCA1V1	Environmental Studies	0+1+1	25+0=25	1
9		ESEP with Mathematics	0+1+1	25+0=25	1
10		Communicative Kannada	0+1+1		
TOTAL MARKS - 600;			TOTAL CREDITS - 24		
SEMESTER – 2					
Sl.No	Course Code	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA21	Object Oriented Programming	4+0+0	50+50=100	4
2	24BCA22	Database Management and MYSQL	4+0+0	50+50=100	4
3	24BCA23/SD 24BCA23/AI 24BCA23/VA 24BCA23/MV 24BCA23/DL 24BCA23/AC 24BCA23/GC 24BCA23/MC 24BCA23/CC 24BCA23/DF 24BCA23/DS 24BCA23/FS 24BCA23/DV	Computer Organization Introduction to Artificial Intelligence Introduction to Cloud Computing Introduction to Data Science Introduction to Artificial Intelligence	4+0+0	50+50=100	4

	24BCA23/IoT	and Cloud Computing.			
6	24BCA21P	Lab on Object Oriented Programming	0+0+4	25+25=50	2
7	24BCA22P	Lab on Database Management and MYSQL	0+0+4	25+25=50	2
4	24BCA2EXX	Open Elective-2*	3+0+2	50+50=100	4
5	24BCA2L1	English	2+0+1	50+0=50	2
8	24BCA2V1	Health & Wellness	0+1+1	50+0=50	1
9		ESEP with Mathematics	0+1+1		1
TOTAL MARKS - 600;			TOTAL CREDITS – 24		

SEMESTER – 3					
Sl.No	CourseCode	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA31	Data Structures using C++	4+0+0	50+50=100	4
2	24BCA32	HTML, VB Script and Java Script	4+0+0	50+50=100	4
3	24BCA33/SD 24BCA33/AI 24BCA33/VA 24BCA33/MV 24BCA33/FS 24BCA33/CC 24BCA33/GC 24BCA33/AC 24BCA33/MC 24BCA33/DL 24BCA33/DV 24BCA33/DF 24BCA33/DS 24BCA33/IoT	Operating Systems Introduction to Virtual Reality Introduction to Cloud Security Introduction to Machine Learning	4+0+0	50+50=100	4
4	24BCA31P	Lab on Data structures	0+0+4	25+25=50	2
5	24BCA32P	Lab on HTML, VB Script and JavaScript	0+0+4	25+25=50	2
6	24BCA3EXX	Open Elective-3 *	3+0+2	50+50=100	4
7	24BCA3A1	Constitution of India	0+1+1	50+0=50	2
8	24BCA3S1	Internship	0+0+4	50+0=50	2
TOTAL MARKS - 600;			TOTAL CREDITS – 24		
SEMESTER – 4					
Sl.No	CourseCode	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA41	Programming in Core Java	4+0+0	50+50=100	4
2	24BCA42	Python Programming	4+0+0	50+50=100	4
3	24BCA43/SD 24BCA43/AI 24BCA43/VA 24BCA43/MV 24BCA43/CC 24BCA43/DF 24BCA43/DS 24BCA43/DV 24BCA43/FS 24BCA43/IoT 24BCA43/GC 24BCA43/MC 24BCA43/AC 24BCA43/DL	E-Commerce Neural Networks Introduction to Blockchain Technology Introduction to Ethical Hacking Fundamentals of Data Virtualization Introduction to DevOps Introduction to Robotics Fundamentals of Deep Learning	4+0+0	50+50=100	4
4	24BCA41P	Lab on Core Java Programming	0+0+4	25+25=50	2

5	24BCA42P	Lab on Python Programming	0+0+4	25+25=50	2
6	24BCA4EXX	Open Elective-4 *	3+0+2	50+50=100	4
7	24BCA4V1	Sports/NSS/NCC	0+1+1	50+0=50	2
8	24BCA4S1	Minor Project	0+0+4	50+0=50	2
TOTAL MARKS - 600;			TOTAL CREDITS -24		

***Note:**

For the Open Elective subjects in Semester 1, 2, 3 and 4

- Students are allowed to take any subject including interdisciplinary courses provided the Hours of Teaching, Credits and Total Marks must match with the given structure by the university.
- Students can select relevant course available in online platforms like SWAYAM/NPTL and similar platforms which are assisted and collaborated through the department, provided course duration/credits should match as per the given structure by the university.
- In case of collaborated courses, the students evaluation could be done through the Learning Management System and then mapped to the University Structure accordingly.
- Students must select the Open Elective subject before the starting of the semester.
- Once the Open Elective subject is selected, they cannot change the subject in between the semester.

SEMESTER – 5					
Sl.No	CourseCode	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA51	Advanced Java	4+0+0	50+50=100	4
2	24BCA52	LAMP Technology	4+0+0	50+50=100	4
3	24BCA53/SD	Principles of TCP/IP	4+0+0	50+50=100	4
	24BCA53/AI 24BCA53/DV	Digital Image Processing			
	24BCA53/MV 24BCA53/VA	Fundamentals of Metaverse Introduction to Augmented Reality			
	24BCA53/CC 24BCA53/GC 24BCA53/AC 24BCA53/MC	Fundamentals of Storage and Network Security			
	24BCA53/DS	Big Data Analytics			
	24BCA53/FS	Mobile Application Development			
	24BCA53/DF	Digital Forensic principles and applications			
	24BCA53/IoT 24BCA53/DL	Applications of IoT and Autonomous Systems			
4	24BCA51P	Lab on Advanced Java			
5	24BCA52P	Lab on LAMP Technology	0+0+4	25+25=50	2
6	24BCA5EXX	Computer Application Elective	3+0+1	50+50=100	4
7	24BCA5V1	Vocational – 1 /Internship	0+0+4	50+0=50	2
8	24BCA5V3	Minor Project	0+0+4	50+0=50	2
TOTAL MARKS – 600;			TOTAL CREDITS – 24		
SEMESTER – 6					
Sl.No	CourseCode	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCAPJ-1	Project Work	0+0+24	300+0=300	12
2	24BCAPJ-2	Dissertation/Viva	-	0+300=300	12
TOTAL MARKS – 600;			TOTAL CREDITS – 24		
BCA DEGREE @ 144 CREDITS					
SEMESTER – 7					
Sl.No	Course Code	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA71	Linux System Administration	4+0+0	50+50=100	4
2	24BCA72	. Net Framework with C#	4+0+0	50+50=100	4
3	24BCA71P	Lab on Linux System Administration	0+0+4	25+25=50	2
4	24BCA72P	Lab on . Net Framework with C#	0+0+4	25+25=50	2
5	24BCA7EX	Computer Application Elective *	3+0+1	50+50=100	4
6	24BCA7V1	Research and Publication Ethics	2+0+0	50+0=50	2
7	24BCA7R1	Research Methodology	4+0+0	50+50=100	4
8	24BCA7S1	Minor Project	0+0+4	50+0=50	2

TOTAL MARKS – 600;			TOTAL CREDITS – 24		
SEMESTER – 8					
Sl.No	Course Code	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA81	Database Programming and Administration	4+0+0	50+50=100	4
2	24BCA82	Network Management	4+0+0	50+50=100	4
3	24BCA8EX	Computer Application Elective *	4+0+0	50+50=100	4
4	24BCA8V1	Report Writing using LaTeX	4+0+0	50+50=100	4
5	24BCA8R1	Research Project/Internship	0+1+5	100+0=100	4
6	24BCA8P1	Publication	0+1+5	100+0=100	4
TOTAL MARKS – 600;			TOTAL CREDITS – 24		
AWARD IN BCA (HONS) DEGREE @ 192 CREDITS					
Students with CGPA >=7.5 in 6 th semester only are eligible for the Hons Degree					

OPEN ELECTIVES GIVEN THROUGH DEPARTMENT COLLABORATION					
Sem.	Course Code	Course Name	TeachingHrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA1E1	RDBMS MySQL, NoSQL and MongoDB.	3+0+2	50+50=100	4
	24BCA1E2	Human Health and Diseases			
2	24BCA2E1	Business Intelligence using IBM Cognos.	3+0+2	50+50=100	4
	24BCA2E2	IBM Watson Services.			
	24BCA2E3	Identity And Access Management.			
	24BCA2E4	IBM Cloud Fundamentals.			
	24BCA2E5	Human Resource Management			
3	24BCA3E1	Introduction to Big Data, Hadoop & Ecosystem.	3+0+2	50+50=100	4
	24BCA3E2	IBM CE - Predictive Modelling using SPSS.			
	24BCA3E3	Data Security using Guardium.			
	24BCA3E4	Soft Skills			
4	24BCA4E1	Machine Learning using Watson Studio.	3+0+2	50+50=100	4
	24BCA4E2	Security Incident and Event Management (SIEM - QRadar).			
	24BCA4E3	Microservices Architecture & Implementation			
	24BCA4E4	Soft Skills - 2			

SEMESTER – 5: COMPUTER APPLICATION ELECTIVE					
Sl.No	Course Code	Course Name	Teaching Hrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA5E1	Software Engineering	4+0+0	50+50=100	4
2	24BCA5E2	Augmented Reality	4+0+0	50+50=100	4
3	24BCA5E3	Design Thinking & Agile Methodologies.	4+0+0	50+50=100	4
SEMESTER – 6: COMPUTER APPLICATION ELECTIVE					
Sl.No	Course Code	Course Name	TeachingHrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA6E1	Advance Computer Architecture	4+0+0	50+50=100	4
2	24BCA6E2	Fuzzy Logic	4+0+0	50+50=100	4
3	24BCA6E3	Cloud Deployment	4+0+0	50+50=100	4
SEMESTER – 7: COMPUTER APPLICATION ELECTIVE					
Sl.No	Course Code	Course Name	TeachingHrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA7E1	Web Frameworks	4+0+0	50+50=100	4
2	24BCA7E2	Statistics for Data Science	4+0+0	50+50=100	4
3	24BCA7E3	Cryptography	4+0+0	50+50=100	4
SEMESTER – 8: COMPUTER APPLICATION ELECTIVE					
Sl.No	Course Code	Course Name	TeachingHrs (L+T+P)	Marks (Int+Ext=T)	Credits
1	24BCA8E1	Software Testing	4+0+0	50+50=100	4
2	24BCA8E2	Machine Learning	4+0+0	50+50=100	4
3	24BCA8E3	Security Incident and Compliance Management	4+0+0	50+50=100	4