



Symbiosis Institute of Computer Studies and Research, Pune
Bachelor of Computer Applications
Programme Structure 2021-24

1.	OBJECTIVE	BCA offers the prequalification for professionals heading for smart career in the IT field, which measures up to international standards. On completing this course one can do higher studies such as MCA, MBA etc., in any UGC recognized universities or in any other reputed institution in India or abroad.				
2.	DURATION (IN MONTHS)	36 (Full Time)				
3.	INTAKE	180				
4.	RESERVATION	I. Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)	d) Defence (In Percentage)
			15	7.5	3	5
		II. Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)	b) International Students (In Percentage)		
			2	15		
5.	ELIGIBILITY	Passed Standard XII (10+2) or equivalent government approved Diploma in Engineering/ Technology from any recognised Board with a minimum of 50% marks or equivalent grade (45% marks or equivalent grade for Scheduled Caste/ Scheduled Tribes).				
6.	SELECTION PROCEDURE	Symbiosis Entrance Test, Personal Interaction and Writing Ability Test (PI-WAT)				
7.	MEDIUM OF INSTRUCTION	English				
8.	PROGRAMME PATTERN	Semester				
9.	COURSE & SPECIALIZATION	As per Annexure A				
10.	FEE		Academic Fee p.a	Institute Deposit	Total	
		Indian Students	165000	10000	175000	
		International Students (USD equivalent to INR)	250000	10000	260000	
11.	ASSESSMENT	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 40% internal component and 60% external component [University] examination.				
12.	STANDARD OF PASSING	The assessment of students for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students				

		securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.
13.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Bachelor of Computer Applications will be awarded at the end of semester VI examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.

14. NATURE WISE DISTRIBUTION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	18	0	0	0	0	2*	18
2	20	0	0	0	0	1*	20
3	14	8	0	0	0	1*	22
4	18	10	0	0	0	0	28
5	8	8	0	0	0	0	16
6	0	16	0	0	0	0	16
Total	78	42	0	0	0	0	120

* Satisfactory completion of the non letter grade courses 'Integrated Disaster Management', 'Fitness for Life', , 'Core Environmental Studies' and 'Certificate in COVID-19 Care for the Community' is mandatory for the award of degree.

The revised programme structure supersedes the previously approved programme structure dated 15/06/2021 for the programme.

This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council. Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Head - Academics

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Semester : 1							
Generic Core Courses							
T3586	0301210101	Web Technologies		4	100	0	100
T3593	0301210102	Computational Thinking		4	40	60	100
T2495	0301210103	Business Communication		2	50	0	50
T3322	0301210104	Elements of Mathematics		2	20	30	50
T3244	0301210105	Introduction to Database Management System		2	20	30	50
T3213	0301210106	Introduction to Operating System		2	20	30	50
T3198	0301210107	Introduction to Python		2	20	30	50
T4005	0301210108	Integrated Disaster Management *		0	0	0	Non Letter Grade
TH4272	0301210109	Certificate in COVID-19 Care for the Community *		0	0	0	Non Letter Grade
Total				18	270	180	450
Semester : 2							
Generic Core Courses							
T3610	0301210201	Applications of Spreadsheets in Business		4	100	0	100
T3206	0301210202	Advanced Programming in Python		2	20	30	50
T3209	0301210203	Data Structures		2	20	30	50
T3200	0301210204	Linux Shell Scripting		2	20	30	50
T3224	0301210205	Network Essentials		2	20	30	50
T3205	0301210206	Web Development using CMS		2	50	0	50
T2981	0301210207	Introduction to Startup		2	50	0	50
T3605	0301210208	Elements of System and Software Development		2	20	30	50
T3609	0301210209	Structured Query Language		2	20	30	50
TH4095	0301210210	Fitness for Life *		0	0	0	Non Letter Grade
Total				20	320	180	500
Semester : 3							
Generic Core Courses							
T3202	0301210301	Object Oriented Programming		4	40	60	100
T3595	0301210302	Design and Implementation of Algorithms		4	40	60	100
T3606	0301210303	Software Engineering Practices		4	40	60	100
T3474	0301210304	Web Development using Python		2	20	30	50



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T2883	0301210305	Core Environmental Studies *		0	0	0	Non Letter Grade
Total				14	140	210	350
Generic Elective Courses Group							
T3221	0301210306	Introduction to Cloud Computing		4	40	60	100
T3237	0301210307	Foundations of Data Warehousing and Data Mining		4	40	60	100
T3663	0301210308	Introduction to Mobile Concepts		4	40	60	100
Total Required Credits				8	80	120	200
Semester : 4							
Generic Core Courses							
T8000	0301210401	Service Learning		4	100	0	100
T3607	0301210402	Software Project Practices		4	40	60	100
T3258	0301210403	Current Trends and Practices in IT		3	75	0	75
T3803	0301210404	Project		3	75	0	75
T3371	0301210405	Introduction to Java Enterprise Framework		2	20	30	50
F0002	0301210406	Flexi-Credit Course		2	50	0	50
Total				18	360	90	450
Generic Elective Courses Group - I							
T3201	0301210407	Mobile Programming		4	40	60	100
TE7019	0301210408	Big Data Analytics		4	40	60	100
T3599	0301210409	Cloud Application Development		4	40	60	100
Total Required Credits				8	80	120	200
Generic Elective Courses Group - II							
T6096	0301210410	Creative Writing		2	50	0	50
T6181	0301210411	Understanding Cinema		2	50	0	50
T6182	0301210412	Appreciating Cinema		2	50	0	50
T6246	0301210413	Music in Media I		2	50	0	50
T6255	0301210414	Introduction to Theatre		2	50	0	50
T6274	0301210415	Foundations of Ethics		2	50	0	50
T6334	0301210416	Basic Sociology		2	50	0	50
T6307	0301210417	Basic Psychology		2	50	0	50
Total Required Credits				2	50	0	50
Semester : 5							
Generic Core Courses							
T3608	0301210501	Software Testing		4	40	60	100



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T1234	0301210502	Information Technology and Regulatory Compliance		2	20	30	50
F0002	0301210503	Flexi-Credit Course		2	50	0	50
Total				8	110	90	200
Generic Elective Courses Group							
T3588	0301210504	Game Design		4	40	60	100
T3612	0301210505	Data Visualization		4	40	60	100
T3600	0301210506	Cloud Architectures and Security		4	40	60	100
Total Required Credits				8	80	120	200
Semester : 6							
Choose Any One Group							
Generic Elective Courses Group - I							
T3912	0301210601	Industry Internship		12	120	180	300
F0004	0301210602	Flexi-Credit Course		4	100	0	100
Generic Elective Courses Group - II							
F0004	0301210603	Flexi-Credit Course		4	100	0	100
T3812	0301210604	Project		12	120	180	300
Total Required Credits				16	220	180	400



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Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	6	12	18	450
Semester 2	8	12	20	500
Semester 3	0	22	22	550
Semester 4	14	14	28	700
Semester 5	2	14	16	400
Semester 6	4	12	16	400
Total	34	86	120	3000