



Sandip University

Trimbak Road, A/p - Mahiravani, Tal. & Dist. – Nashik, Pin – 422 213

Website : <http://www.sandipuniversity.edu.in> Email : info@sandipuniversity.edu.in

Ph: (02594) 222 541 Fax: (02594) 222 555

School of **Computer Sciences and Applications** Course Structure for **Undergraduate Programme of Bachelor of Computer Application (BCA)** **Semester - I**

Sr. No	Core	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1	UC	XEG101A	English	3	--	--	3	3	3	50	50	--	100
2	PC	XCA101	Discrete Mathematics - I	3	1	--	4	4	3	50	50	--	100
3	PC	XCA102	Computer Fundamentals	3	--	--	3	3	3	50	50	--	100
4	PC	XCA103	Office 365	3	--	--	3	3	3	50	50	--	100
5	PC	XCA104	Problem Solving Technique using C	3	--	--	3	3	3	50	50	--	100
6	PC	XCA111	Lab Course based on Office 365	--	--	4	4	2	3	25	--	25	50
7	PC	XCA112	Lab Course based on C	--	--	4	4	2	3	25	--	25	50
8	UC	XEV101	Environmental Science	4	--	--	4	--	3	100	--	--	GR(UGC)
Total				19	1	8	28	20		300	250	50	600

CIA: Continuous Internal Assessment	TH: Theory Exam.
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T: Tutorial	*: Oral Examination
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Details of Continuous Internal Assessment (CIA)

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2 A & B	20%	Mid-Term Exam (MTE)
CIA 3	10%	Presentation by students
CIA 4	10%	Research Based Activity
TOTAL	50%	

Document Ref.	Rev. No./ Date	Issue No./ Date	Prepared by	Approved by
SUN/SOCSA/ /_____/_____/2017-18				



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School of **Computer Sciences and Applications** Course Structure for **Undergraduate Programme of Bachelor of Computer Application (BCA)** **Semester - II**

Sr. No	Core	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks	
				L	T	P	Total				TH	OR / PR		
1.	UC	XEG201A	Advance English	3	--	--	3	3	3	50	50	--	100	
2.	PC	XCA201	Discrete Mathematics - II	3	1	--	4	4	3	50	50	--	100	
3.	PC	XCA202	Computer Architecture	3	--	--	3	3	3	50	50	--	100	
4.	PC	XCA203	Object Oriented programming Using C++	3	--	--	3	3	3	50	50	--	100	
5.	PC	XCA204	Internet Technologies	3	--	--	3	3	3	50	50	--	100	
6.	PC	XCA211	Lab Course based on C++	--	--	4	4	2	3	25	--	25	50	
7.	PC	XCA212	Lab Course based on Internet Technologies	--	--	4	4	2	3	25	--	25	50	
8.	UC	XFG201	Foreign Language	German I	2	--	--	2	2	1.5	25	25	--	50
		XFF201		French I										
Total				17	1	8	26	22		325	275	50	650	

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School of **Computer Sciences and Applications** Course Structure for **Undergraduate Programme of Bachelor of Computer Application (BCA)** **Semester - III**

Sr. No	Core	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
9.	PC	XCA301	Database Management System	3	--	--	3	3	3	50	50	--	100
10.	PC	XCA302	LINUX Operating System	3	--	--	3	3	3	50	50	--	100
11.	PC	XCA303	Python Programming	3	--	--	3	3	3	50	50	--	100
12.	UC	XCA304	Principles of Management	3	--	--	3	3	3	50	50	--	100
13.	PC	XCA305	Theoretical Computer Science	3	1	--	4	4	3	50	50	--	100
14.	PC	XCA311	Lab Course based on LINUX OS	--	--	4	4	2	3	25	--	25	50
15.	PC	XCA312	Lab Course based on Python Programming	--	--	4	4	2	3	25	--	25	50
16.	UC	XFG301	Foreign Language	German II	2	--	2	2	1.5	25	25	--	50
		XFF301		French II									
Total				17	1	8	26	22		325	275	50	650

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School of **Computer Sciences and Applications** Course Structure for **Undergraduate Programme of Bachelor of Computer Application (BCA)** Semester - **IV**

Sr. No	Core	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1	PC	XCA401	Java Programming	3	--	--	3	3	3	50	50	--	100
2	PC	XCA402	Mobile Applications	3	--	--	3	3	3	50	50	--	100
3	PC	XCA403	Advanced Database Management System	3	--	--	3	3	3	50	50	--	100
4	PC	XCA404	Data Communication and Networking	3	--	--	3	3	3	50	50	--	100
5	PC	XCA405	System Analysis and Design	3	--	--	3	3	3	50	50	--	100
6	PC	XCA411	Lab Course based on Java Programming	--	--	4	4	2	3	25	--	25	50
7	PC	XCA412	Lab Course based on ADBMS	--	--	4	4	2	3	25	--	25	50
Total				15		8	23	19		300	250	50	600

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Semester - V

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				L	T	P	Total				TH	OR / PR	
1	PC	XCA501	Software Engineering	3	--	--	3	3	3	50	50	--	100
2	PC	XCA502	Data Mining and Warehousing	3	--	--	3	3	3	50	50	--	100
3	PE	XCA503I	i. Open Source Technologies	3	--	--	3	3	3	50	50	--	100
		XCA503II	ii. Information Security										
4	PC	XCA504	Multimedia Applications	3	--	--	3	3	3	50	50	--	100
5	PC	XCA505	Cloud Computing	3	--	--	3	3	3	50	50	--	100
6	PC	XCA511	Lab Course based on Data Mining and Warehousing	--	--	4	4	2	3	25	--	25	50
7	PC	XCA512	Lab Course based on Multimedia Applications	--	--	4	4	2	3	25	--	25	50
8	UC	XCA513	Personality Development & Communication Skills	--	--	2	2	--	--	--	--	--	--
Total				15		10	25	19		300	250	50	600

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Semester - VI

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				L	T	P	Total				TH	OR / PR	
1	PC	XCA601	Software Project Management	3	--	--	3	3	3	50	50	--	100
2	PE	XCA602I	i. Programming in PHP	3	--	--	3	3	3	50	50	--	100
		XCA602II	ii. Android Programming										
3	PE	XCA611	Lab Course based on Electives	--	--	4	4	2	3		25	25	50
4	PC	XCA612	In Plant Project Work & Seminar	--	--	--	--	6	3	50	--	100	150
Total				6		4	10	14		150	125	125	400

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