Bachelor of Computer Application (B.C.A.)

Approved by AICTE

Duration	Four Years.
Eligibility	• A candidate from any stream, should have passed 12th Std. Examination (H.S.C. 10+2) with minimum 40% marks and English as a passing subject **OR** • A pass in diploma in Commercial Practice or equivalent **OR** • Three Years Diploma Course from Board of Technical Education, conducted by Government of Maharashtra or its equivalent, after S.S.C. i.e. 10th Standard. **OR** • Two Years Diploma Course in Pharmacy from Board of Technical Education, conducted by Government of Maharashtra or its equivalent, after H.S.C. i.e. 12th Standard. **OR** • Completed MCVC program (H.S.C. Vocational) **AND** • MAH-BCA/BBA/BMS/BBM-CET must be appeared by candidate conducted by State Common Entrance Test Cell, GOVERNMENT OF MAHARASHTRA.
Admission	First Come First Serve Basis.
Course Structure	15Hrs. / Credit / Lecture / Paper / Term

Class: - F.Y.B.C.A (As per New Education Policy)

SEM-I						
Sr.No.	Course Code	Course Type	Course Name	Credits		Total
				Th.	Pr.	
1.	CA- 101 - T	Subject 1	Problem Solving and Programming in C	2	-	2
2.	CA- 102 - P		Lab course on CA-101 – T	-	2	2
3.	CA- 103 - T	BCA	Computer Organization & Architecture	2	-	2
4.	CA- 104 - P		Lab course on CA- 103 – T	-	2	2
5.	CA- 105 - T	BCA	Discrete Mathematics and Statistics	2	-	2
6.	CA- 106 - P		Laboratory course on CA-105 - T	-	2	2
7.	OE- 101-CA	GE/ OE	Introduction to Data Science	2	-	2
8.	VSEC- 101- CA	VSEC	HTML and Web Page Designing	-	2	2
9.	IKS –100 – T	IKS Generic	Indian Knowledge System	2	-	2
10.	AEC – 101 -ENG	AEC	English	2	-	2
11.	VEC – 101 -ENV	VEC	Environmental Science	2	-	2
Total Credits				14	8	22

			SEM-II			
Sr.No.	**Course Code**	**Course Type**	**Course Name**	**Credits**		**Total**
				Th.	**Pr.**	
1.	CA- 151 - T	Subject 1	Advanced C Programming	2	-	2
2.	CA- 152 - P		Lab course on CA-151 – T	-	2	2
3.	CA- 153 - T	BCA	Introduction to Microcontrollers	2	-	2
4.	CA- 154 - P		Lab course on CA- 153 - T	-	2	2
5.	CA- 155 - T	BCA	Linear Algebra	2	-	2
6.	CA- 156 - P		Laboratory course on CA-155 - T	-	2	2
7.	OE-151- CA	GE/ OE	Data Science Using Spreadsheet Software	-	2	2
8.	VSEC- 151-CA	VSEC	Software Tools for Business Communications	-	2	2
9.	AEC- 151- ENG	AEC	English	2	-	2
10.	VEC – 151 -ENV	VEC	Environmental Science	2	-	2
11.	CC – 151 -PE	CC	Physical Education	2	-	2
Total Credits				12	10	22

Titles:

CC-Core Course, EC-Elective Course, PR-Practical, PJ-Project, AECC-Ability Enhancement Compulsory Courses, SEC-Skill Enhancement Courses.

Exit option: Award of UG Certification in Bachelor of Computer Application (BCA) with 44 credits and an additional 08 credits (for either courses by Microsoft/CCNA/Salesforce /Google/AWS/Oracle/ RedHat etc. or Swayam/ NPTEL/MKCL equivalent to core NSQF course or an Internship) or else Continue with Major and Minor

Class: - S.Y.B.B.A (C.A) CBCS Pattern-2019

SEM-III

Subject Code	Subject Name	Course	Credits	
			Th.	Pr.
CA-301	Digital Marketing	CC	3	
CA-302	Data Structure	CC	3	
CA-303	Software Engineering	CC	3	
CA-304	Angular JS	EC	3	
OR				
CA-304	PHP	EC	3	
CA-305	Big data	EC	3	
OR				
CA-305	Block chain	EC	3	
CA-306	Computer Laboratory Based on 302 , 304 and 305 (2 credits each)	PR		2+2+2 = 6
307 AECC	Environment Awareness	AECC	2	

SEM-IV

Subject Code	Subject Name	Course	Credits	
			Th	Pr.
CA-401	Networking	CC	3	
CA-402	Object Oriented Concepts Through CPP	CC	3	
CA-403	Operating System	CC	3	
CA-404	**NODE JS**	**EC**	**3**	
OR				
CA-404	**Advance PHP**	**EC**	**3**	
CA-405	Project	EC		4
CA-406	Computer Laboratory Based on 402,404 (2 credits each)	PR		4
CA-407	ADD-On (30 Hours)	SEC	2	

Class: - T.Y.B.B.A (C.A) CBCS Pattern-2019

SEM-V

Subject Code	Subject Name	Course	Credits Th.	Pr.
CA-501	Cyber Security	CC	3	
CA-502	OOSE	CC	3	
CA-503	Core Java	CC	3	
CA-504	Mongo DB	EC	3	
OR				
CA-504	Python	EC	3	
CA-505	Project	PJ		4
CA-506	Computer Laboratory Based on 503 and 504(2 credits each)	PR		4
CA-507	Add on Course-IOT(30 Hours)		2	

SEM-VI

Subject Code	Subject Name	Course	Credits Th.	Pr.
CA-601	Recent Trends in Information Technology(Tutorial/Assignment)	CCT	3+1	
CA-602	Software Testing	CC	3	
CA-603	Advanced Java	CC	3	
CA-604	Android Programming	EC	3	
OR				
CA-604	Dot Net framework	EC	3	
CA-605	Project	PJ		4
CA-606	Computer Laboratory Based on 603 and 604(2 credits each)	PR		4
CA-607	Add on Course-Soft Skills Training		2	