



Savitribai Phule Pune University

(Formerly University of Pune)

Three Year B.Sc. Degree Program in B.C.A.

(Faculty of Science & Technology)

F.Y.B.C.A.

Choice Based Credit System Syllabus

To be implemented from Academic Year 2019-2020

Title of the Course : Bachelor of Computer Applications (BCA)

Preamble of the syllabus

The B.C.A. program is a combination of computer and applied courses from science stream. The computer related courses introduce techniques of programming, databases, web designing, system analysis, design tools and different computing environments. The applied courses include mathematics, statistics and electronics that provide theoretical foundation for the learner.

Objectives:

- To produce knowledgeable and skilled human resources that is employable in IT and ITES.
- To impart knowledge required for planning, designing and building Complex Application Software Systems as well as to provide support for automated systems or applications.
- To produce entrepreneurs

Introduction

The Program is of Three Years duration with six semesters. It is a Full Time Degree Program. The program will be based on Choice-based credit system comprising 140 credit points.

Lateral Entry to SYBCA

Any candidate who has passed three Year Diploma course in Computer Engineering/Technology/Information Technology/Electronics Communication/ Electronics Telecommunications/ Electronics approved by the DTE, Maharashtra State or Equivalent authority is eligible for admission to direct second year (SYBCA) of this program.

TABLE -1 Structure for FYBCA (Semester_1)

Semester 1									
Course Code	Course	Teaching Scheme Hours / Week			Examination Scheme and Marks			Credit	
		Theory	Tutorial	Practical	CE	End-Sem	Total	TH	PR
BCA111	Fundamentals of Computers	04	--	--	30	70	100	04	--
BCA112	Problem Solving and C Programming	04	--	--	30	70	100	04	--
BCA113	Applied Mathematics	04	--	--	30	70	100	04	--
BCA114	Business Communication	04	--	--	30	70	100	04	--
BCA115	Fundamentals of Computers Laboratory	--	--	03	15	35	--	50	1.5
BCA116	C Programming Laboratory	--	--	03	15	35	--	50	1.5
BCA117	Applied Mathematics Laboratory	--	--	03	15	35	--	50	1.5
BCA118	Business Communication Laboratory	--	--	03	15	35	--	50	1.5
Total Credits								16	06
Total		16	--	12	180	420	600	22	

Abbreviations:**TW:** Term Work**TH:** Theory**OR:** Oral**TUT:** Tutorial**PR:** Practical

TABLE -2 Structure for FYBCA (Semester_2)

Semester 2									
Course Code	Course	Teaching Scheme Hours / Week			Examination Scheme and Marks			Credit	
		Theory	Tutorial	Practical	CE	End-Sem	Total	TH	PR
BCA121	Computer Organization	04	--	--	30	70	100	04	--
BCA122	Advanced C Programming	04	--	--	30	70	100	04	--
BCA123	Operating Systems Concepts	04	--	--	30	70	100	04	--
BCA124	Database Management Systems – I	04	--	--	30	70	100	04	--
BCA125	Computer Organization Laboratory	--	--	03	15	35	050	--	1.5
BCA126	Advanced C Programming Laboratory	--	--	03	15	35	050	--	1.5
BCA127	Operating Systems Laboratory	--	--	03	15	35	050	--	1.5
BCA128	Database Management Systems - I Laboratory	--	--	03	15	35	050	--	1.5
Total Credits								16	06
Total		16	--	12	180	420	600	22	