

DR. BABASAHEB AMBEDKAR OPEN UNIVERSITY

(Established by Government of Gujarat)

School of Computer Science
Revised Syllabus for
Bachelor of Computer Application
June-2020

BCA Programme

Revised Syllabus 2020 Onwards
(As per UGC Model Curriculum)



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Introduction

Dr. Babasaheb Ambedkar Open University is unique, being the only state distance mode- open University of Gujarat, established by the Government of Gujarat. The prime objective of the University is to equip its learners with knowledge, skills and competencies associated with employability through flexible, learner-centred and technology enhanced way following the basic principles of open and distance education.

The School of Computer Science, Dr. Babasaheb Ambedkar Open University offers a wide range of programmes in Computer Science & Information Technology for the benefit of one and all. The main focus of the school is to expose the students with the latest technologies in the field of Computer Science & Information Technology so that the student is able to fill the gap that exists between the supply and the demand of the technically trained manpower in the field of CS & IT.

Bachelor of Computer Application (BCA) programme is specifically premeditated to enhance, enrich and enlighten the skills of young professionals who wish to pursue their career in the field of computer applications. External Bachelor of Computer Application (BCA) course is the graduate course which will lead as a feeder course for advanced studies in the area of Computer Science.

Objectives

- ✓ To develop the understanding of conceptual as well as a theoretical concept and functions of Programming and functions of C language.
- ✓ To enhance the knowledge of Internet Technologies and HTML and importance of HTML and Internet Technologies.
- ✓ To enrich the skills and understand the functions and theoretical, practical foundations of Data Structure Using 'C'.
- ✓ To understand the concept, functions and technical knowledge of Database Management System.
- ✓ To get trained and equipped with the knowledge of Object oriented concept and programming II(Advance Java).

Course Code	Prog. Code	Course Name	Credit	
First Semester			Theory+Practical	
BCAR-101	BCA	Fundamental of Computer and Information Technology	4	–
BCAR-102	BCA	Operating System and Software Installation	4	–
BCAR-103	BCA	Fundamental of Programming Using C Language	2	2
BCAR-104	BCA	Introduction to Internet Technologies and HTML	2	2
BCAR-105	BCA	Communication Skills	4	--
Second Semester			Theory+Practical	
BCAR-201	BCA	Data Structure Using C	4	–
BCAR-202	BCA	Database Management System (DBMS)	2	2
BCAR-203	BCA	Digital Electronics and Computer Organisation	4	–
BCAR-204	BCA	Object Oriented Concepts & Programming-1 (Core Java)	2	2
BCAR-205	BCA	System Analysis and Design	4	--

Course Code	Prog. Code	Course Name	Credit	
Second Year Third Semester			Theory+Practical	
BCAR-301	BCA	Introduction to Computer Network	4	–
BCAR-302	BCA	Relational Database Management System (RDBMS)	2	2
BCAR-303	BCA	System Programming and Introduction to Microprocessor	4	–
BCAR-304	BCA	Object Oriented Concepts & Programming-II (Advance Java)	2	2
BCAR-305	BCA	Personality Development	4	--
Second Year Fourth Semester			Theory+Practical	
BCAR-401	BCA	Web Technology using FOSS (LAMP/WAMP)	2	2
BCAR-402	BCA	Software Engineering	4	–
BCAR-403	BCA	Clint/Server Architecture and Interface C#)	2	2
BCAR-404	BCA	Project Work	--	4
Third Year Fifth Semester			Theory+Practical	
BCAR-501	BCA	Business Application and Introduction to ERP	4	–
BCAR-502	BCA	Object Oriented Analysis and Design	4	–
BCAR-503	BCA	Mobile Application Development	2	2
Third Year Sixth Semester			Theory+Practical	
BCAR-601	BCA	Internet Programming (ASP-NET-Using C#)	2	2
BCAR-602	BCA	E-Commerce	4	–
BCAR-603	BCA	Project Work	--	8

Outline of the Programme:

- The code for this programme is BCA.
- For every semester and for every course the codes will be different.
- Three Year programme Bachelor of Computer Application (BCA) Programme has six semester.
- The whole BCA programme will have a total of 104 credits.
- Eligibility for Admission: 10+2 or equivalent examination passed (in any stream) from a Council/University recognized by UGC.
- Duration of programme : Minimum 3 years and Maximum 8 years.
- Programme fee: Rs. 7000/- per semester, it has six semester and one year it cost Rs. 14000. Total would be Rs. 42000/- for three year programme.
- Centers: Recognized/Approved study centers of University
- SLM (Selflearning Material): It will be provided to all Enrolled students.
- Counseling sessions: Saturday and Sunday at all approved centers.
- Learners are required to submit two assignments to the study center for the evaluation purpose. For their assignment's submission, they must follow the deadlines assigned by the university.
- Semester wise Exams: January/ February & June/ July

Assessment

Assessment of Student	
Continuous Evaluation	Based on the Assignment (30%)
Yearly Exams	Based on Yearly Exams (70%)
Standard of Success	To pass 35% marks in Assignment and Yearly Evaluation

Facilities:

- ❖ Counselling sessions at the respective Learner Support Centre.
- ❖ ICT Support: ICT support is a major component of any ODL system of education. Our University has as such given emphasis on this. Some ICT-based support systems provided by the University for the learners of are listed below:
 - Website: www.baou.edu.in
 - Swadhyaya TV
 - VANDE Gujarat — Dedicated VANDE Gujarat Channel Number 16
 - Virtual Classroom
 - Secured Examination
 - ASK-ME kiosk
 - E - Self Learning Material
 - Online Admission
 - Cash-Less Campus
 - Educational Apps

Programme Outcomes:

- It will develop skills in software development so as to enable to BCA graduates to take up self-employment in Indian & Global Software Market.
- Students are going to get trained and equipped by which they can meet the requirement of the industrial Standards.
- The Bachelor of Computer Application (BCA) Programme would enable the learners to acquire knowledge of various fields such as 'C' language, Internet Technologies and HTML, algorithm and data structures, Object Oriented Concepts & Programming-I (Core Java), advanced programming with C, Computer organization and network fundamentals, Web programming, Internet Programming (ASP, NET using C#), relational database management systems, software engineering, digital electronics, web technology using FOSS and visual programming, etc.
- It will prepare learners for further research and to pursue higher studies in this Computer Application fraternity.
- The programme will help the learners to seek career avenues various sectors.
- It gives them a wing to approach of all the different sectors in Computer and IT sector, and the opportunity to acquire specialist expertise in a given field.



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