

MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR
BACHELOR OF COMPUTER APPLICATION (BCA Annual Scheme)

Course of Study and Examination

(To be offered in affiliated colleges from session 2018-21)

- 1. Duration of the Course:** The BCA (Annual Scheme) course will be of three years duration. Each year will be approximately 10 months (minimum 180 working days) duration.
- 2. Medium of Instruction:** The medium of instruction and examination shall be English/Hindi.
- 3. Eligibility:** The candidate must have passed 10+2 examinations with at least 50%marks in aggregate (Pass marks for SC/ST candidates or as per Govt. rules)

I Year (With effect from 2018-21)

Paper	Paper Name	Duration Of Exam(Hours)	Total
PAPER-I (BCA-101)	Introduction To Information Technology and PC Packages	3	100
PAPER –II (BCA-102)	Business Communication	3	100
PAPER-III (BCA-103)	Problem Solving through C Programming	3	100
PAPER-IV (BCA-104)	Basic Physics	3	100
PAPER-V (BCA-105)	Basic Mathematics	3	100
PAPER-VI (BCA-106)	Computer Organization	3	100
Practical-I (BCA-107)	PC Software Packages Lab	5	200
Practical-II (BCA-108)	C Programming Lab	5	200
1209	Environment Studies	3	100
1704	English	3	100
	Total		1200

II Year (With effect from 2019-21)

Paper	Paper Name	Duration Of Exam(Hours)	Total
PAPER-I (BCA-201)	Computer Communication and Networks	3	100
PAPER –II (BCA-202)	Database management System	3	100
PAPER-III (BCA-203)	Fundamentals of Operating System	3	100
PAPER-IV (BCA-204)	Data structure	3	100
PAPER-V (BCA-205)	System Analysis And Design	3	100
PAPER-VI (BCA-206)	Object Oriented Programming using C++	3	100
Practical-I (BCA-207)	Database management system Lab	5	200
Practical-II (BCA-208)	Data structures lab	5	200
1705	Hindi	3	100
	Total		1100

III Year (With effect from 2020-21)

Paper	Paper Name	Duration Of Exam(Hours)	Total
PAPER-I (BCA-301)	Java Programming	3	100
PAPER –II (BCA-302)	Information Systems	3	100
PAPER-III (BCA-303)	Cloud Computing	3	100
PAPER-IV (BCA-304)	Wireless and Mobile Computing	3	100
PAPER-V (BCA-305)	Web Technology	3	100
Practical-I (BCA-306)	Java Programming lab	5	200
Practical-II (BCA-307)	Web and Mobile Technology Lab	5	200
Practical-III (BCA-308)	<u>Project</u>	5	200
	Total		1100

BCA 308: PROJECT

In house project must be done by each student on simple applications using any computer language/ RDBMS/ Web design/visual programming etc.

The total work must be of minimum 180 hours per student. The internal guide must schedule the work & evaluate internally from time to time.

The project report must be prepared for the external examination. Monthly report of the students must be taken to monitor progress and must be placed for evaluation by external examiner. Projects submitted by the students shall be evaluated during external evaluation to ensure independent contribution and proficiency acquired by the students.

Note: Students must be allotted projects in the beginning of the session. Candidates submitting readymade projects/copied/projects developed by professionals in the market etc shall be awarded zero marks.

Two copies of the project report and the software developed must be submitted to the external examiner. One copy of the project shall be returned to the student with the signature of external examiner.

MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

BACHELOR OF COMPUTER APPLICATION (Semester Scheme with Choice Based Credit System) (Effective from session 2020-23)

1. Duration of the Course

The Bachelor of Computer Application (B.C.A) which will be known as BCA (Semester Scheme with Choice Based Credit System) course will consist of six semester's duration which will be conducted in three years. Each semester will be approximately 5 months (minimum 90 working days in a semester) duration.

2. Eligibility:

Candidates seeking admission to the first semester of BCA programme must have passed 10+2 examination all faculty (Science, Commerce & Science) with at least 50% marks.

3. **Admissions:** Admissions to the first semester of B.C.A shall be made, through merit conducted by the University. The course will be initially offered only in the university campus under Faculty of Science

4. Medium of Instruction

The medium of instruction and examination shall be English.

5. No. of Seats

Total 180 seats on self-finance basis

6. Curriculum

6.1 B.C.A. Programme has a three year, six semester prescribed course structure which in general terms is known as curriculum. It prescribes courses to be studied in each semester as given under courses of study and examination

6.2 B.C.A Programme shall have a curriculum and course contents (syllabi) for the courses recommended by the committee courses in Informatics and Computational Sciences and approved by the academic council of the university.

6.3 The Programme shall follow a credit based semester system. Each academic year is divided in to two semesters as prescribed in 6.1

6.4 Course Credit System/Structure

In general a certain quantum of work measured in terms of credits is laid down as the requirement for a particular degree. A student earns the credits for a particular course by fulfilling the academic requirements viz. attendance and evaluation. The total credits required for completing the B.C.A. program shall be 172. The total number of credits in each semester (I to V semester) shall be 34 and 18 in the VI semester. Number of credits for a course in any semester is calculated as follows.

S. No.	Course	Credits
1	One Lecture or tutorial hr/week	1
2	Two Laboratory hours/week	1
3	Seminar 4hrs/week	2
4	Full semester project	18

BCA Semester – V

Paper	Paper Name	L-T-P	Credits	Max. Marks		Total
				University Exam.	Internal Assessment	
Paper-I (BCA-S501)	Software Engineering	3-0-2	4	80	20	100
Paper-II (BCA-S502)	Data mining	3-0-0	4	80	20	100
Paper-III BCA-S503	Web Technology	3-1-0	4	80	20	100
Paper-IV BCA- S504A /S504B	Elective A. Network management & Security B. Client Server Computing	3-1-0	4	80	20	100
Paper-V (BCA-S505)	Practical-I: Data mining Lab	0-0-8	4	80	20	100
Paper-VI (BCA-S506)	Practical-II Minor Project Based on Web technology	0-0-8	4	80	20	100
Paper-VII (BCA- S507A/S507B)	Practical Elective(Choose one from following) A. Web Development Lab B. Advanced Web Tools	0-0-4	2(AP)		50	50
Paper-VIII (BCA-S508)	Seminar	4	2		50	50
	TOTAL		28 (26)	480	220	700

BCA Semester – VI

Paper	Paper Name	Credits	Ma		Total
			University Exam.	Internal Assessment	
Paper-I (BCA-S601)	Project	18	350	100	450
		18			450

Total Credits: 172, 158 credits for calculation of CGPA

BCA VI Semester

BCA-S601: PROJECT

In house project must be done by each student on simple applications using any computer language/ RDBMS/ Web design/visual programming etc.

The total work must be of minimum 180 hours per student. The internal guide must schedule the work & evaluate internally from time to time.

The project report must be prepared for the external examination. Monthly report of the students must be taken to monitor progress and must be placed for evaluation by external examiner. Projects submitted by the students shall be evaluated during external evaluation to ensure independent contribution and proficiency acquired by the students.

Note: Students must be allotted projects in the beginning of the session. Candidates submitting readymade projects/copied/ projects developed by professionals in the market etc shall be awarded zero marks.

Two copies of the project report and the software developed must be submitted to the external examiner. One copy of the project shall be returned to the student with the signature of external examiner.