



SIR PADAMPAT SINGHANIA UNIVERSITY

Udaipur

SCHOOL OF ENGINEERING

Course Curriculum of 3-Year B.C.A. Degree Programme (Specialization in Mobile Applications & Information Security) (Batch- 2020-23)

Credit Structure

Undergraduate Core		Undergraduate Elective	
Category	Credits	Category	Credits
Departmental Core Subjects	100	Discipline Specific Electives	06
Humanities & Basic Sciences Subjects	08		
Ability Enhancement Compulsory Subjects	06		
Total	114	Total	06
		Grand Total	120

Distribution of Total Credits & Contact Hours in all Semesters

S. No.	Semester Number	Credits/Semester	Contact hours/week
1	I	24	30
2	II	22	27
3	III	20	25
4	IV	21	28
5	V	16	18
6	VI	17	24
Total		120	--

**Course Structure: B.C.A. (Specialization in Mobile Applications & Information Security)
2020-2023**

Semester - I

S. No.	Course Code	Course Title	L	T	P	Credit(s)
1	BCA-1001	Introduction to Computers & Office Management Tools	3	0	1	4
2	BCA-1002	Programming in C	3	0	2	5
3	BCA-1003	Digital Logic Design	3	0	1	4
4	BCA-1004	Database Management System	3	0	2	5
5	HU-1001	Business Communication – I	2	0	0	2
6	MA-1003	Fundamentals of Mathematics	3	1	0	4
Total Credits						24
7	EP-1999	Endeavour Project (Beyond the Syllabus)				
Total Contact hours/week						30

Semester - II

S. No.	Course Code	Course Title	L	T	P	Credit(s)
1	BCA-1005	Operating Systems Concepts	3	0	1	4
2	BCA-1006	Object Oriented Programming Using C++	2	0	2	4
3	BCA-1007	Data Structures Using C	3	0	2	5
4	BCA-1008	Computer Organization & Architecture	3	0	0	3
5	BCA-1009	Discrete Mathematical Structure	3	1	0	4
6	HU-1002	Business Communication - II	2	0	0	2
Total Credits						22
7	EP-1999	Endeavour Project(Beyond the Syllabus)				
Total Contact hours/week						27

Semester - III

S. No.	Course Code	Course Title	L	T	P	Credit(s)
1	BCA-2001	Java Programming	2	0	2	4
2	BCA-2002	Design and Analysis of Algorithms	3	0	0	3
3	BCA-2003	Introduction to Web Technology	1	0	2	3
4	BCA-2004	Introduction to Computer Graphics	3	0	1	4
5	BCA-2005	Introduction to Software Engineering Principles	3	0	0	3
6	CH-2001	Environmental Management	3	0	0	3
Total Credits						20
7	EP-2999	Endeavour Project(Beyond the Syllabus)				
Total Contact hours/week						25

Semester - IV

S. No.	Course Code	Course Title	L	T	P	Credit(s)
1	BCA-2006	Mobile Application Development	1	0	2	3
2	BCA-2007	Python Programming	2	0	2	4
3	BCA-2008	Introduction to IoT	2	0	1	3
4	BCA-2009	Computer Networks	3	0	1	4
5	BCA-2010	Introduction to Ethical Hacking Principles	3	0	1	4
6	MA-2011	Logical Reasoning & Thinking	3	0	0	3
Total Credits						21
7	EP-2999	Endeavour Project (Beyond the Syllabus)				
Total Contact hours/week						28

Semester - V

S. No.	Course Code	Course Title	L	T	P	Credit(s)
1	BMI-3001	Introduction to Web Scrapping	2	0	1	3
2	BMI-3002	Information Security	3	0	0	3
3	BMI-3003	Mobile Device & Network Architecture	3	0	0	3
4	BMI-3004	Introduction to Cloud Computing and Big Data Analytics	3	0	0	3
5	BMI-3104	Departmental Topic Seminar	0	0	1	1
6	BMI-XXXX	Discipline Specific Elective – I	3	0	0	3
Total Credits						16
7	EP-3999	Endeavour Project(Beyond the Syllabus)				
Total Contact hours/week						18

Semester - VI

S. No.	Course Code	Course Title	L	T	P	Credit(s)
1	BMI-3005	System Administration with Linux	2	0	1	3
2	BMI-3006	Introduction to Artificial Intelligence	3	0	0	3
3	BMI-3007	Introduction to Hadoop & Hive	2	0	1	3
4	BMI-3100	Major Project	0	0	5	5
5	BMI-XXXX	Discipline Specific Elective - II	3	0	0	3
Total Credits						17
6	EP-3999	Endeavour Project (Beyond the Syllabus)				3
Total Contact hours/week						24

List of Discipline Specific Elective(s) - I

S. No.	Course Code	Course Title	L	T	P	Credit
1	BMI-3151	IT Governance, Risk, & Information Security Management	3	0	0	3
2	BMI-3152	Computer Forensics & Investigation	3	0	0	3

List of Discipline Specific Elective(s) - II

S. No.	Course Code	Course Title	L	T	P	Credit
1	BMI-3153	Industry 4.0	3	0	0	3
2	BMI-3154	Mobile Value Added Services	3	0	0	3