

UNIVERSITY
GWALIOR • MP • INDIA

"CELEBRATING DREAMS"
STUDY AND EVALUATION SCHEME

SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Name of Course: *BCA*

Batch (2026-2030)

Semester: 1

S.no.	Course Category	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
				Theory			Practical			Total Marks	Period Per Week			
				End Term Evaluation	Mid Term Evaluation	ABC Evaluation	End Term Evaluation	Lab Work And Sessional	PBL/Mini Project		L	T	P	
1	CC	BCA 101	Fundamentals of Information Technology	70	15	15	-	-	-	100	3	0	0	3
2	CC	BCA 102	Web Technology	-	-	-	70	15	15	100	0	0	4	2
3	CC	BCA 103	Python Programming	-	-	-	70	15	15	100	0	0	6	3
4	AEC	BCA 104	Environmental Science	70	15	15	-	-	-	100	3	0	0	3
5	SEC	BCA 105	Communication Skills	70	15	15	70	15	15	200	3	0	2	4
6	MD	BCA 106	Mathematics For Computing	70	15	15	-	-	-	100	3	0	0	3
7	SEC	BCA 107	Digital Productivity Tools	-	-	-	70	15	15	100	0	0	4	2
8		NCC-0101	*NCC	70	15	15	70	15	15	200	1	0	2	*2
											Total Credit			20+*2

*NCC is a choice-based subject. Credits will be added if the subject will be opted, (CC-Core Competency, AEC-Ability Enhancement Course, SEC –Skill Enhancement Course, DSE-Discipline Specific Education, VAC-Value added Course)



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Batch (2026-2030)

Semester: 2

S. No.	Course Category	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
				Theory			Practical			Total Marks	Period Per Week			
				End Term Evaluation	Mid Term Evaluation	ABC Evaluation	End Term Evaluation	Lab Work And Sessional	PBL/Mini Project		L	T	P	
1	CC	BCA 201	Programming in C	70	15	15	70	15	15	200	3	0	4	5
2	CC	BCA 202	Introduction to Artificial Intelligence	70	15	15	-	-	-	100	3	0	0	3
3	CC	BCA 203	Database Management System	70	15	15	70	15	15	200	3	0	2	4
4	MD	BCA 204	Probability & Statistics				70	15	15	100	3	0	0	3
5	AEC	BCA 205	Professional Communication Skills-I	70	15	15	-	-	-	100	2	0	2	3
6	PW	BCA 206	PBL-2: Logic Building Project	-	-	-	70	15	15	100	0	0	2	1
7	VAC	BCA 207	Cyber Ethics & Digital Society	70	15	15				100	2	0	0	2
8	IKS	IKS-0202	**IKS											*2
9		NCC-0202	*NCC	70	15	15	70	15	15	200	1	0	2	*2
											Total Credits			21+*2+*2

*NCC is a choice-based subject. Credits will be added if the subject will be opted.

**IKS is a audit -based subject. Credits will be added if the subject will be opted, subject list is attached at the end of scheme.



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Batch (2026-2030)

Semester 3

S. No.	Course Code	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
				Theory			Practical			Total Marks	Period Per Week			
				End Term Evaluation	Mid Term Evaluation	ABC Evaluation	End Term Evaluation	Lab Work And Sessional	PBL/Mini Project		L	T	P	
1	CC	BCA 301	Object –Oriented Programming with Java	70	15	15	70	15	15	200	3	0	4	5
2	CC	BCA 302	Data Structure & Algorithms	70	15	15	70	15	15	200	3	0	4	5
3	PW	BCA 303	PBL-3 : Mini Project	-	-	-	70	15	15	100	0	0	4	2
4	DSE	BCA 304	Digital Computer Principles	70	15	15	-	-	-	100	3	0	0	3
5	AEC	BCA 305	Entrepreneurship Development	70	15	15	-	-	-	100	2	0	0	2
6	CC	BCA 306	Operating System	70	15	15	70	15	15	200	3	0	2	4
7	VAC	BCA 307	Indian Constitution & Civic Values	70	15	15	-	-	-	100	2	0	0	2
8		NCC-0303	*NCC	70	15	15	70	15	15	200	1	0	2	*2
Total Credits													23+*2	

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Name of Course: **BCA**

Batch (2026-2030)

Semester 4

S. No.	Course Category	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
				Theory Slot			Practical Slot			Total Marks	Period Per Week			
				End Term Evaluation	Mid Term Evaluation	ABC Evaluation	End Term Evaluation	Lab Work And Sessional	PBL/Mini Project		L	T	P	
1	CC	BCA 401	Full stack development	-	-	-	70	15	15	100	0	0	6	3
2	CC	BCA 402	Computer Network	70	15	15	70	15	15	200	4	0	2	5
3	CC	BCA403	Data Warehousing and Mining	70	15	15	70	15	15	200	3	0	4	5
4	DSE	BCA 403	Cyber Security & Ethical Hacking	70	15	15	70	15	15	200	3	0	2	4
5	SEC	BCA 404	Data Analysis using Python	-	-	-	70	15	15	100	0	0	6	3
6	AEC	BCA 405	Aptitude & Reasoning Skills	70	15	15	-	-	-	100	2	0	0	2
7	PW	BCA 406	Minor Project	-	-	-	70	15	15	100	0	0	4	2
8	IKS	IKS-0404	**IKS											*2
9		NCC-0404	*NCC	70	15	15	70	15	15	200	1	0	2	*2
											Total Credits			24+*2+*2

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Name of Course: **BCA**

Batch (2026-2030)

Semester: 5

S. No.	Course Category	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
				Theory			Practical			Total Marks	Periods Per Week			
				End Term Evaluation	Mid Term Evaluation	ABC Evaluation	End Term Evaluation	Lab Work And Sessional	PBL/Mini Project		L	T	P	
1	CC	BCA 501	Machine Learning	70	15	15	70	15	15	200	4	0	2	5
2	CC	BCA 502	Cloud Computing	70	15	15	70	15	15	200	3	0	4	5
3	DSE	BCA 503	Elective –I	70	15	15	70	15	15	200	3	0	4	5
4	AEC	BCA 504	Advanced Soft Skills & Leadership	70	15	15	70	15	15	200	3	0	2	4
5	PW	BCA 505	Internship-II	-	-	-	70	15	15	100	0	0	4	2
6	VAC	BCA 506	Digital Marketing	-	-	-	70	15	15	100	0	0	6	3
7		NCC-0505	*NCC	70	15	15	70	15	15	200	1	0	2	*2
Total Credits														24+*2

*NCC is a choice- based subject. Credits will be added if the subject will be opted.

Electives:

Elective I	BCA 503(A) Mobile Application Development	BCA 503 (B) Data Analytics	BCA 503 (C)Data Visualization Tools
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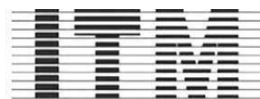
Name of Course: **BCA**

Batch (2026-2030)

Semester 6

S. No.	Course Category	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
				Theory			Practical			Total Marks	Period Per Week			
				End Term Evaluation	Mid Term Evaluation	ABC Evaluation	End Term Evaluation	Lab Work & Sessional	PBL/Mini Project		L	T	P	
1	CC	BCA601	Software Project Management	70	15	15	70	15	15	200	3	0	4	5
2	CC	BCA602	Digital Forensics	70	15	15	-	-	-	100	3	0	0	3
3	DSE	BCA603	Elective II	70	15	15	70	15	15	200	3	0	4	5
4	AEC	BCA604	Professional Communication Skills -II	70	15	15	-	-	-	100	3	0	0	3
5	VAC	BCA605	Making of Modern India	70	15	15	-	-	-	100	2	0	0	2
6	PW-I	BCA606	Major Project-Phase 1	-	-	-	70	15	15	100	0	0	10	5
7	PW-II	BCA 607	Internship / Training -I	-	-	-	70	15	15	100	0	0	4	2
8	IKS	IKS-0606	**IKS	-	-	-								*2
9		NCC-0606	*NCC	40	30	30	60	20	20	200	1	0	2	*2
													Total Credit	25+*2+*2
Elective II			BCA 603 (A) Cyber Law				BCA 603(B) Image Processing							

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Semester 7

S. No.	Course Category	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
				Theory			Practical			Total Marks	Period Per Week			
				End Term Evaluation	Mid Term Evaluation	ABC Evaluation	End Term Evaluation	Lab Work And Sessional	PBL/Mini Project		L	T	P	
1	CC	BCA 701	Research Methodology	70	15	15	-	-	-	100	4	0	0	4
2	CC	BCA 702	Generative AI	70	15	15	70	15	15	200	3	0	2	4
3	CC	BCA 703	Elective –III	70	15	15	70	15	15	200	3	0	2	4
4	CC	BCA 704	Elective-IV	70	15	15	70	15	15	200	3	0	2	4
5	PW	BCA705	Capstone Project- Phase-1	-	-	-	70	15	15	100	0	0	8	4
											Total Credits			20

Electives:

BCA-703(A)-Deep Learning	BCA-703(B)- Network Security
BCA-704(A)-Big Data Analytics	BCA-704(B)-Ethical AI



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Semester 8

S. No.	Course Category	Subject Code	Subject Name	Maximum Marks Allotted							Credits Allotted			Total Credits
				Theory			Practical			Total Marks	Period Per Week			
				End Term Evaluation	Mid Term Evaluation	ABC Evaluation	End Term Evaluation	Lab Work And Sessional	PBL/Mini Project		L	T	P	
1	OCC 1	BCA801	Block Chain Technology	70	15	15	-	-	-	100	4	0	0	4
2	OCC 1	BCA802	Natural Language Processing	70	15	15	70	15	15	200	3	0	2	4
3	OCC 2	BCA803	Salesforce-Administrator	-	-	-	70	15	15	100	0	0	8	4
4	PW	BCA 804	Dissertation-II	0	0	0	250	75	75	400	0	0	24	12
5	DSE	BCA 805	Capstone Project-II	-	-	-	70	15	15	100	0	0	8	4
6	CC	BCA 806	Computer Graphics	70	15	15	70	15	15	200	3	0	2	4
Total Credits													20	

Note: Students will opt OCC or Dissertation.