



# SCHOOL OF INFORMATION TECHNOLOGY

## Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

### New Scheme of Examination as per AICTE Flexible Curricula

### Computer Science and Business System (CSBS)

### B.Tech I Semester

**w.e.f. July 2020**

S. No.	Subject Code	Subject Name		Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem	Mid Sem	Quiz/ Assignment	End Sem	Lab work & Sessional					
Mandatory Induction Program (First three weeks)				Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations									
Fourth week onwards classes will start													
1.	CB101	Discrete Mathematics		70	20	10	-	-	100	3	-	-	3
2.	CB102	Introductory Topics in Statistics, Probability and Calculus		70	20	10	-	-	100	3	-	-	3
3.	CB103	Fundamentals of Computer Science		70	20	10	30	20	150	3	-	2	4
4.	CB104	Principles of Electrical Engineering		70	20	10	30	20	150	3	-	2	4
5.	CB105	Fundamentals of Physics		70	20	10	30	20	150	3	-	2	4
6.	CB106	Business Communication and Value Science-I		70	20	10	-	-	100	3	1	-	4
7.	CB107	Internship-I (60 Hrs Duration) at the Institute level		To be completed during or at the end of the first/second semester. Its evaluation/credit to be added in third semester.									
8.	CB108	Swachh Bharat Summer Internship Unnat Bharat Abhiyan (100Hrs)/ Rural Outreach		-	-	-	15	10	25	-	-	4	2
			Total	420	120	60	105	70	775	18	01	10	24

\* MST: Minimum of two mid semester tests to be conducted.

\* Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture(L)  
1 Credit

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1 Credit

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1 Credit



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**B.Tech II Semester**

**w.e.f. Jan 2021**

S.No .	Subject Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
			Theory Slot			Practical Slot			L	T	P	
			End Sem	Mid Sem Exam.	Quiz/ Assignme nt	EndSem	Lab work & Sessional					
1.	CB201	Linear Algebra	70	20	10	-	-	100	3	-	-	3
2.	CB202	Statistical Methods	70	20	10	-	-	100	3	-	-	3
3.	CB203	Data Structures & Algorithms	70	20	10	30	20	150	3	-	2	4
4.	CB204	Principles of Electronics	70	20	10	30	20	150	3	-	2	4
5.	CB205	Fundamentals of Economics	70	20	10	-	-	100	3	1	-	4
6.	CB206	Business Communication and Value Science- II	70	20	10	30	20	150	3	-	2	4
7.	CB107	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the first/second semester. Its evaluation/credit to be added in third semester.									
		Total	420	120	60	90	60	750	18	1	6	22

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**B.Tech III Semester**

**w.e.f. July 2021**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted					TotalMarks	Contact Hours per week			Total Credits
			Theory			Practical			L	T	P	
			EndSem	Mid Sem Exam	Quiz/ Assignm ent	End Sem	Term work					
							Lab Work & Sessional					
1.	CB301	Formal Language and Automata Theory	70	20	10	-	-	100	3	1	-	4
2.	CB302	Computer Organization & Architecture	70	20	10	-	-	100	4	-	-	4
3.	CB303	Object Oriented Programming	70	20	10	30	20	150	3	-	2	4
4.	CB304	Computational Statistics	70	20	10	30	20	150	3	-	2	4
5.	CB305	Database Management Systems	70	20	10	30	20	150	3	-	2	4
6.	CB107	Evaluation of Internship-I-completed at I year level	-	-	-	-	50	50	-	-	4	2
7.	CB306	Internship-II (90 hrs Internship based on using various softwares)	To be completed during or at the end of the third/fourth semester. Its evaluation/credit to be added in fifth semester.									
8.	CB307	Indian Constitution	Non-Credit course									
		Total	350	100	50	90	110	700	16	1	10	22

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**IV Semester**

**w.e.f. Jan 2022**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
			Theory			Practical			L	T	P	
			End Sem	Mid Sem Exam	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CB401	Operating Systems	70	20	10	30	20	150	3	-	2	4
2.	CB402	Design And Analysis of Algorithms	70	20	10	30	20	150	3	-	4	5
3.	CB403	Software Engineering	70	20	10	30	20	150	3	-	2	4
4.	CB404	Introduction to Innovation, IP Management & Entrepreneurship	70	20	10	-	-	100	3	-	-	3
5.	CB405	Design Thinking	70	20	10	30	20	150	3	-	2	4
6.	CB406	Operations Research	70	20	10	30	20	150	3	-	2	4
7.	CB306	Internship-II (90 hrs Internship based on using various softwares)	To be completed during or at the end of the third/fourth semester. Its evaluation/credit to be added in fifth semester.									
8.	CB407	Cyber Security	Non-Credit course									
9.	CB408	Indian Knowledge System	Non-Credit course									
10.	NC001	NSS/NCC										
		TOTAL	420	120	60	150	100	850	18	-	12	24

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**V Semester**

**w.e.f. July 2022**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours			Total Credits
			Theory			Practical			per week			
			End Sem	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work		L	T	P	
							Lab Work & Sessional					
1.	CB501	Software Design with UML	70	20	10	30	20	150	2	-	2	3
2.	CB502	Compiler Design	70	20	10	30	20	150	3	-	4	5
3.	CB503	Fundamentals of Management	70	20	10	-	-	100	2	-	-	2
4.	CB504	Business Strategy	70	20	10	-	-	100	2	-	-	2
5.	CB505	Business Communication & Value Science – III	70	20	10	-	-	100	2	-	-	2
6.	CB506	Departmental Elective-I	70	20	10	30	20	150	2	1	2	4
7.	CB507	Minor Project- I	-	-	-	-	50	50	-	-	4	2
8.	CB306	Evaluation of Internship-II completed at II year level	-	-	-	-	100	100	-	-	6	3
9.	CB508	Internship-III (90 hrs Internship based on using various softwares)	To be completed during or at the end of the fifth/sixth semester. Its evaluation/credit to be added in seventh semester.									
		Total	420	120	60	90	210	900	13	1	18	23

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1 Hr Lecture(L)  
1 Credit

1 Hr Tutorial(T)  
1 Credit

2 Hr Practical(P)  
1 Credit

<b>Departmental Elective-I</b>
<b>CB506 (A)</b> Conversational Systems
<b>CB506 (B)</b> Cloud, Micro services & Application
<b>CB506 (C)</b> Machine Learning



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**VI Semester**

**w.e.f. Jan 2023**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
			Theory			Practical			L	T	P	
			End Sem	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work					
							Lab Work & Sessional					
1.	CB601	Computer Networks	70	20	10	30	20	150	3	-	2	4
2.	CB602	Information Security	70	20	10	30	20	150	3	-	2	4
3.	CB603	Artificial Intelligence	70	20	10	30	20	150	3	-	2	4
4.	CB604	Financial & Cost Accounting	70	20	10	-	-	100	2	-	-	2
5.	CB605	Business Communication & Value Science – IV	70	20	10	-	-	100	2	-	-	2
6.	CB606	Departmental Elective-II	70	20	10	30	20	150	2	-	2	3
7.	CB607	Minor Project-II	-	-	-	50	50	100	-	-	6	3
8.	CB508	Internship-III (90 hrs Internship based on using various softwares)	To be completed during or at the end of the fifth/sixth semester. Its evaluation/credit to be added in seventh semester.									
		Total	420	120	60	170	130	900	15	-	14	22

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1 Hr Lecture(L)  
1 Credit

1 Hr Tutorial(T)  
1 Credit

2 Hr Practical(P)  
1 Credit

<b>Departmental Elective-II</b>
<b>CB606 (A)</b> Robotics and Embedded Systems
<b>CB606 (B)</b> Modern Web Applications
<b>CB606 (C)</b> Data Mining and Analytics



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**VII Semester**

**w.e.f. July 2023**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
			Theory			Practical			L	T	P	
			End Sem	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work					
							Lab Work & Sessional					
1.	CB701	Usability Design of Software Applications	70	20	10	30	20	150	3	-	2	4
2.	CB702	Financial Management	70	20	10	-	-	100	3	-	-	3
3.	CB703	Departmental Elective-III	70	20	10	30	20	150	3	-	2	4
4.	CB704	Departmental Elective-IV	70	20	10	30	20	150	3	-	2	4
5.	CB705	IT Workshop (Scilab/Matlab)	-	-	-	30	20	50	-	1	4	3
6.	CB706	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	CB508	Evaluation of Internship-III completed at III year level	-	-	-	-	100	100	-	-	6	3
		Total	280	80	40	220	230	850	12	1	24	25

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1 Credit

1 Hr Tutorial(T)  
1 Credit

2 Hr Practical(P)  
1 Credit

Departmental Elective-III	Departmental Elective-IV
CB703 (A) Cognitive Science & Analytics	CB704 (A) Quantum Computation & Quantum Information
CB703 (B) Introduction to IoT	CB704 (B) Advanced Social Text and Media Analytics
CB703 (C) Cryptology	CB704 (C) Mobile Computing



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**VIII Semester**

**w.e.f. Jan 2024**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
			Theory			Practical			L	T	P	
			End Sem	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work					
							Lab Work & Sessional					
1.	CB801	IT Project Management	70	20	10	30	20	150	3	1	2	5
2.	CB802	Departmental Elective-V	70	20	10	-	-	100	3	-	-	3
3.	CB803	Departmental Elective-VI	70	20	10	30	20	150	3	1	2	5
4.	CB804	Major Project-II	-	-	-	100	50	150	-	-	10	5
		Total	210	60	30	160	90	550	9	2	14	18

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1 Credit

1 Hr Tutorial(T)  
1 Credit

2 Hr Practical(P)  
1 Credit

Departmental Elective-V	Departmental Elective-VI
CB802 (A) Behavioral Economics	CB803 (A) Enterprise Systems
CB802 (B) Computational Finance & Modeling	CB803 (B) Advance Finance
CB802 (C) Psychology	CB803 (C) Image Processing and Pattern Recognition