



**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/ Assignme nt	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.

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1 Hr Lecture(L)  
1 Credit

1 Hr Tutorial(T)  
1 Credit

2 Hr Practical(P)  
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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1 Credit

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**B.Tech III Semester**

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

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.	CB301	<b>Formal Language and Automata Theory</b>	70	20	10	-	-	100	3	1	-	4	
2.	CB302	<b>Computer Organization &amp; Architecture</b>	70	20	10	-	-	100	4	-	-	4	
3.	CB303	<b>Object Oriented Programming</b>	70	20	10	30	20	150	3	-	2	4	
4.	CB304	<b>Computational Statistics</b>	70	20	10	30	20	150	3	-	2	4	
5.	CB305	<b>Database Management Systems</b>	70	20	10	30	20	150	3	-	2	4	
6.	CB107	<b>Evaluation of Internship-I completed at I year level</b>	-	-	-	-	50	50	-	-	4	2	
7.	CB306	<b>Internship-II (90 hrs Internship based on using various softwares)</b>	<b>To be completed during or at the end of the third/fourth semester. Its evaluation/credit to be added in fifth semester.</b>										
8.	CB307	<b>Indian Constitution</b>	<b>Non-Credit course</b>										
		<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>90</b>	<b>110</b>	<b>700</b>	<b>16</b>	<b>1</b>	<b>10</b>	<b>22</b>	

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2 Hr Practical(P)  
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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.	<b>CB401</b>	<b>Operating Systems</b>	70	20	10	30	20	150	3	-	2	4	
2.	<b>CB402</b>	<b>Design And Analysis of Algorithms</b>	70	20	10	30	20	150	3	-	4	5	
3.	<b>CB403</b>	<b>Software Engineering</b>	70	20	10	30	20	150	3	-	2	4	
4.	<b>CB404</b>	<b>Introduction to Innovation, IP Management &amp; Entrepreneurship</b>	70	20	10	-	-	100	3	-	-	3	
5.	<b>CB405</b>	<b>Design Thinking</b>	70	20	10	30	20	150	3	-	2	4	
6.	<b>CB406</b>	<b>Operations Research</b>	70	20	10	30	20	150	3	-	2	4	
7.	<b>CB306</b>	<b>Internship-II (90 hrs Internship based on using various softwares)</b>	<b>To be completed during or at the end of the third/fourth semester. Its evaluation/credit to be added in fifth semester.</b>										
8.	<b>CB407</b>	<b>Cyber Security</b>	<b>Non-Credit course</b>										
9.	<b>CB408</b>	<b>Indian Knowledge System</b>	<b>Non-Credit course</b>										
10.	<b>NC001</b>	<b>NSS/NCC</b>											
		<b>TOTAL</b>	<b>420</b>	<b>120</b>	<b>60</b>	<b>150</b>	<b>100</b>	<b>850</b>	<b>18</b>	<b>-</b>	<b>12</b>	<b>24</b>	

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1 Hr Lecture(L)  
1 Credit

1 Hr Tutorial(T)  
1 Credit

2 Hr Practical(P)  
1 Credit



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**Computer Science and Business System (CSBS)**  
**V Semester**

**w.e.f. July 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							
1.	<b>CB501</b>	<b>Software Design with UML</b>	70	20	10	30	20	150	2	-	2	3		
2.	<b>CB502</b>	<b>Compiler Design</b>	70	20	10	30	20	150	3	-	4	5		
3.	<b>CB503</b>	<b>Fundamentals of Management</b>	70	20	10	-	-	100	2	-	-	2		
4.	<b>CB504</b>	<b>Business Strategy</b>	70	20	10	-	-	100	2	-	-	2		
5.	<b>CB505</b>	<b>Business Communication &amp; Value Science – III</b>	70	20	10	-	-	100	2	-	-	2		
6.	<b>CB506</b>	<b>Departmental Elective-I</b>	70	20	10	30	20	150	2	1	2	4		
7.	<b>CB507</b>	<b>Minor Project- I</b>	-	-	-	-	50	50	-	-	4	2		
8.	<b>CB306</b>	<b>Evaluation of Internship-II completed at II year level</b>	-	-	-	-	100	100	-	-	6	3		
9.	<b>CB508</b>	<b>Internship-III (90 hrs Internship based on using various softwares)</b>	<b>To be completed during or at the end of the fifth/sixth semester. Its evaluation/credit to be added in seventh semester.</b>											
		<b>Total</b>	<b>420</b>	<b>120</b>	<b>60</b>	<b>90</b>	<b>210</b>	<b>900</b>	<b>13</b>	<b>1</b>	<b>18</b>	<b>23</b>		

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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) Conversational Systems</b>
<b>CB506 (B) Cloud, Micro services &amp; Application</b>
<b>CB506 (C) Machine Learning</b>



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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.	<b>CB601</b>	<b>Computer Networks</b>	70	20	10	30	20	150	3	-	2	4			
2.	<b>CB602</b>	<b>Information Security</b>	70	20	10	30	20	150	3	-	2	4			
3.	<b>CB603</b>	<b>Artificial Intelligence</b>	70	20	10	30	20	150	3	-	2	4			
4.	<b>CB604</b>	<b>Financial &amp; Cost Accounting</b>	70	20	10	-	-	100	2	-	-	2			
5.	<b>CB605</b>	<b>Business Communication &amp; Value Science – IV</b>	70	20	10	-	-	100	2	-	-	2			
6.	<b>CB606</b>	<b>Departmental Elective-II</b>	70	20	10	30	20	150	2	-	2	3			
7.	<b>CB607</b>	<b>Minor Project-II</b>	-	-	-	50	50	100	-	-	6	3			
8.	<b>CB508</b>	<b>Internship-III (90 hrs Internship based on using various softwares)</b>	<b>To be completed during or at the end of the fifth/sixth semester. Its evaluation/credit to be added in seventh semester.</b>												
		<b>Total</b>	<b>420</b>	<b>120</b>	<b>60</b>	<b>170</b>	<b>130</b>	<b>900</b>	<b>15</b>	<b>-</b>	<b>14</b>	<b>22</b>			

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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) Robotics and Embedded Systems</b>
<b>CB606 (B) Modern Web Applications</b>
<b>CB606 (C) Data Mining and Analytics</b>



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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.	<b>CB701</b>	<b>Usability Design of Software Applications</b>	70	20	10	30	20	150	3	-	2	4		
2.	<b>CB702</b>	<b>Financial Management</b>	70	20	10	-	-	100	3	-	-	3		
3.	<b>CB703</b>	<b>Departmental Elective-III</b>	70	20	10	30	20	150	3	-	2	4		
4.	<b>CB704</b>	<b>Departmental Elective-IV</b>	70	20	10	30	20	150	3	-	2	4		
5.	<b>CB705</b>	<b>IT Workshop (Scilab/Matlab)</b>	-	-	-	30	20	50	-	1	4	3		
6.	<b>CB706</b>	<b>Major Project-I</b>	-	-	-	100	50	150	-	-	8	4		
7.	<b>CB508</b>	<b>Evaluation of Internship-III completed at III year level</b>	-	-	-	-	100	100	-	-	6	3		
		<b>Total</b>	<b>280</b>	<b>80</b>	<b>40</b>	<b>220</b>	<b>230</b>	<b>850</b>	<b>12</b>	<b>1</b>	<b>24</b>	<b>25</b>		

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1 Hr Lecture(L)  
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.	<b>CB801</b>	<b>IT Project Management</b>	70	20	10	30	20	150	3	1	2	5		
2.	<b>CB802</b>	<b>Departmental Elective-V</b>	70	20	10	-	-	100	3	-	-	3		
3.	<b>CB803</b>	<b>Departmental Elective-VI</b>	70	20	10	30	20	150	3	1	2	5		
4.	<b>CB804</b>	<b>Major Project-II</b>	-	-	-	100	50	150	-	-	10	5		
		<b>Total</b>	<b>210</b>	<b>60</b>	<b>30</b>	<b>160</b>	<b>90</b>	<b>550</b>	<b>9</b>	<b>2</b>	<b>14</b>	<b>18</b>		

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