

**Indian Institute of Information Technology Kota**  
**Curriculum Scheme of B.Tech. (Computer Science and Engineering)**

**Batch 2013-14**

**Semester - I**

S.No	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	MAT101	Mathematics-I	3	1	0	4
2	PHT101	Modern Physics	3	1	0	4
3	CST101	Introduction to Computer Systems	3	0	0	3
4	CST103	Computer Programming and Problem Solving	3	0	0	3
5	EET101	Principles of Electrical Engineering	3	0	0	3
6	HST101	Communication Skills in English	2	0	0	2
7	CET101	Computer Aided Engineering Drawing	1	0	2	2
		<b>Labs</b>				
8	CSP105	Computer Programming Lab	0	0	2	1
9	PHP101	Physics Lab	0	0	2	1
10	EEP101	Electrical Engineering Lab	0	0	2	1
11	HSP101	English Communication Lab	0	0	2	1
Total Credits			18	2	10	<b>25</b>

**Semester - II**

S.No	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	MAT102	Mathematics-II	3	1	0	4
2	CST102	Electronic Devices and Circuits	3	1	0	4
3	CST104	Digital Electronics	3	0	0	3
4	CST106	Data Structures and Algorithms	3	0	0	3
5	HST102	Health, Safety and Environment	3	0	0	3
6	HST104	Human Values and Effective Communication	3	0	0	3
		<b>Labs</b>				
7	CSP108	Data Structures and Algorithms Lab	0	0	3	2
8	CSP110	Digital Electronics Lab	0	0	2	1
9	CSP112	Electronic Devices and Circuits Lab	0	0	2	1
10	HSP106	Soft Skill Development Lab	0	0	2	1
Total Credits			18	2	9	<b>25</b>

**Semester - III**

S.No	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST201	Communication Systems	3	0	0	3
2	CST203	Microprocessors and Microcontrollers	3	0	0	3
3	CST205	Database Management System	3	0	0	3
4	CST207	Object Oriented System Design	3	0	0	3
5	CST209	Discrete Mathematical Structures	3	0	0	3
6	BMT201	Engineering Economics	3	0	0	3
		<b>Labs</b>				
7	CSP213	Analog and Digital Communication Lab	0	0	3	2
8	CSP215	Microprocessors and Microcontrollers Lab	0	0	3	2
9	CSP217	Database Management System Lab	0	0	3	2
10	CSP219	Object Oriented System Design Lab	0	0	3	2
Total Credits			18	0	12	<b>26</b>

**Semester - IV**

S.No	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST202	Software Engineering	3	1	0	4
2	CST204	Computer Architecture and Organization	3	1	0	4
3	CST206	Design and Analysis of Algorithms	3	0	0	3
4	CST208	Computer Networks	3	0	0	3
5	CST210	Web Based System Design	3	0	0	3
6	HST202	Technical Writing and Professional Communication	2	0	0	2
		<b>Labs</b>				
7	CSP212	Design and Analysis of Algorithms Lab	0	0	3	2
8	CSP214	Computer Networks Lab	0	0	3	2
9	CSP216	Web Based System Design Lab	0	0	3	2
10	HSP204	Professional Communication Lab	0	0	2	1
Total Credits			17	2	11	26

**Semester - V**

S.No	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST301	Operating System	3	0	0	3
2	CST303	Theory of Computation	3	1	0	4
3	CST305	Information Systems and Security	3	0	0	3
4	CST307	Elective - E5.1 (Computer Graphics)	3	0	0	3
5	CST309	Elective - E5.2 (Digital Signal Processing)	3	0	0	3
6	BMT301	Business Environment	3	0	0	3
		<b>Labs</b>				
7	CSP313	Operating System Lab	0	0	3	2
8	CSP315	Information Systems and Security Lab	0	0	3	2
9	CSP317	Simulation and Modelling Lab	0	0	3	2
10	CSP319	Elective - E5.1 (Industry-Academia Lab)	0	0	3	2
Total Credits			18	1	12	27

**Semester - VI**

S.No	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST302	Compiler Design	3	0	0	3
2	CST304	Intelligent System Design	3	0	0	3
3	CST306	Mobile Communication	3	1	0	4
4	CST308	Elective - E6.1 (Modern Banking)	3	0	0	3
5	CST310	Elective - E6.2 (Information Theory and Coding)	3	0	0	3
6	CST312	IPRs and IT Laws	3	0	0	3
		<b>Labs</b>				
7	CSP314	Compiler Design Lab	0	0	3	2
8	CSP316	Intelligent System Design Lab	0	0	3	2
9	CSP318	Simulation and Modelling Lab	0	0	3	2
10	CSP320	Elective - E6.1 (Modern Banking Lab)	0	0	3	2
Total Credits			18	1	12	27

**Semester - VII**

S.No	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST401	Elective – E7.1 (Machine Learning)	3	0	0	3
2	CST403	Open Elective – E7.2 (Malware Analysis and Detection)	3	0	0	3
		<b>Labs</b>				
3	CSD405	Project – I	0	0	6	6
4	CSD407	Technical Presentation on Contemporary Topic – I	0	0	2	2
Total Credits			6	0	8	14

**Semester - VIII**

S.No	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST402	Elective – E8.1 (Neural Networks)	3	0	0	3
2	CST404	Elective – E8.2 (Natural Language Processing)	3	0	0	3
3	CST406	Open Elective – E8.3 (Digital Image Processing)	3	0	0	3
		<b>Labs</b>				
4	CSD408	Project – II	0	0	6	6
5	CSD410	Technical Presentation on Contemporary Topic – II	0	0	2	2
Total Credits			9	0	8	17

B Tech CSE - Total Credits	<b>187</b>
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