

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

**Semester - I**

Sr. No.	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	MAT101	Mathematics - I	3	0	0	3
2	ECT101	Digital Electronics	3	0	0	3
3	ECT103	Fundamentals of Electrical Engineering	3	0	0	3
4	CST101	Introduction to Computer Systems and Programming	3	0	0	3
5	HST101	Communication Skills in English	2	0	0	2
		<b>Labs</b>				
6	ECP101	Digital Electronics Lab	0	0	2	1
7	CSP101	Computer Programming Lab	0	0	2	1
8	CSP111	IT Workshop - 1	0	0	3	2
9	HSP101	English Communication Lab	0	0	2	1
10	OTP101	Creative Arts / Liberal Arts	0	0	1	1
			14	0	10	<b>20</b>
Contact hours per week ->					24	

**Semester - II**

Sr. No.	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	MAT102	Mathematics - II	3	0	0	3
2	ECT102	Electronic Devices and Circuits	3	0	0	3
3	CST102	Data Structures and Algorithms	3	0	0	3
4	CST104	Internet and Web Technologies	3	0	0	3
5	HST102	Health, Safety and Environment	1	0	0	1
6	HST104	Human Values and Effective Communication	2	0	0	2
		<b>Labs</b>				
7	ECP102	Electronic Devices and Circuits Lab	0	0	2	1
8	CSP102	Data Structures and Algorithms Lab	0	0	2	1
9	CSP112	IT Workshop - 2	0	0	3	2
10	HSP104	Soft Skill Development Lab	0	0	2	1
11	OTD102	Independent Project	0	0	1	1
			15	0	10	<b>21</b>
Contact hours per week ->					25	

**Semester - III**

Sr. No.	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	MAT201	Discrete Mathematical Structures	3	0	0	3
2	ECT201	Microprocessors and Microcontrollers	3	0	0	3
3	ECT209	Communication Systems	3	0	0	3
4	CST201	Database Management System	3	0	0	3
5	CST203	Object Oriented System Design	3	0	0	3
6	BMT201	Engineering Economics	3	0	0	3
		<b>Labs</b>				
7	ECP201	Microprocessors and Microcontrollers Lab	0	0	2	1
8	CSP201	Database Management System Lab	0	0	2	1
9	CSP203	Object Oriented System Design Lab	0	0	2	1
10	CSP211	IT Workshop - 3	0	0	3	2
			18	0	9	<b>23</b>
			Contact hours per week ->			27

**Semester - IV**

Sr. No.	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST202	Software Engineering	3	0	0	3
2	CST204	Computer Architecture and Organization	3	0	0	3
3	CST206	Design and Analysis of Algorithms	3	0	0	3
4	CST208	Operating Systems	3	0	0	3
5	CST210	Introduction to Logic and Formal Methods	3	0	0	3
6	HST202	Technical Writing and Professional Communication	3	0	0	3
		<b>Labs</b>				
7	CSP204	Computer Architecture and Organization Lab	0	0	2	1
8	CSP206	Design and Analysis of Algorithms Lab	0	0	2	1
9	CSP208	Operating Systems Lab	0	0	2	1
10	HSP202	Professional Communication Lab	0	0	2	1
			18	0	8	<b>22</b>
			Contact hours per week ->			26

**Semester - V**

Sr. No.	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST301	Theory of Computation	3	0	0	3
2	CST303	Computer Networks	3	0	0	3
3	CST305	Information Systems and Security	3	0	0	3
4	CST307	Computer Graphics	3	0	0	3
5	CST309	Elective - 5.1	3	0	0	3
6	CST311	Elective - 5.2	3	0	0	3
		<b>Labs</b>				
7	CSP303	Computer Networks Lab	0	0	2	1
8	CSP305	Information Systems and Security Lab	0	0	2	1
9	CSP307	Computer Graphics Lab	0	0	2	1
10	CSD309	Technical Presentation / Seminar - I	0	0	2	1
			18	0	8	<b>22</b>

Contact hours per week -> 26

**Semester - VI**

Sr. No.	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	MAT302	Information Theory and Coding	3	0	0	3
2	CST302	Compiler Design	3	0	0	3
3	CST304	Elective - 6.1	3	0	0	3
4	HST302	Communication Techniques, Interview and GD	3	0	0	3
		<b>Labs</b>				
5	CSD300	Project - I	0	0	12	6
6	CSP302	Compiler Design Lab	0	1	2	2
7	CSP304	Elective - 6.1 Lab	0	0	2	1
8	HSP302	Communication Techniques Lab	0	0	2	1
			12	1	18	<b>22</b>

Contact hours per week -> 31

**Semester - VII**

Sr. No.	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST401	Elective - 7.1	3	0	0	3
2	CST403	Elective - 7.2	3	0	0	3
3	OTT401	Open Elective - 7.3	3	0	0	3
		<b>Labs</b>				
4	CSD405	Project - II	0	0	12	6
5	CSD407	Technical Presentation / Seminar - II	0	0	2	1
			<b>9</b>	<b>0</b>	<b>14</b>	<b>16</b>
			Contact hours per week ->		23	

**Semester - VIII**

Sr. No.	Subject Code	Subject	Scheme			
			L	T	P	Credits
1	CST402	Elective - 8.1	3	0	0	3
2	CST404	Elective - 8.2	3	0	0	3
3	CST406	Elective - 8.3	3	0	0	3
4	OTT404	Open Elective - 8.4	3	0	0	3
		<b>Labs</b>				
5	CSP406	Elective - 8.1 Lab	0	0	2	1
6	CSP408	Survey / Thought Based Project	0	0	2	1
			<b>12</b>	<b>0</b>	<b>4</b>	<b>14</b>
			Contact hours per week ->		16	

**B. Tech. CSE (4 Years) - Total Credits**

**160**

**Discipline wise distribution**

