

Computer Science

Semester III											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07211301	Discrete Structures	C	4	2	0	0	0	50	75	5	125
07211302	Digital Electronics and Logic Circuits	ID	4	0	0	0	0	40	60	4	100
07211303	Object Oriented Programming	C	4	0	0	0	0	40	60	4	100
07211304	Data Structures	C	4	0	0	0	0	40	60	4	100
<b>07211305</b>	Computer Organization	C	4	0	0	0	0	40	60	4	100
07211306	Digital Electronics and Logic Circuits lab	C	0	0	2	10	15	0	0	1	25
07211307	Object Oriented Programming lab	C	0	0	2	10	15	0	0	1	25
07211308	Data Structures lab	C	0	0	4	20	30	0	0	2	50
07211309	Computer Organization lab	C	0	0	2	10	15	0	0	1	25
07211310	<b>Integrated Disaster Management</b>	<b>PD</b>	<b>3#</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75#</b>	<b>0</b>	<b>3 #</b>	<b>75#</b>
<b>Total</b>			<b>20</b>	<b>2</b>	<b>10</b>	<b>50</b>	<b>75</b>	<b>210</b>	<b>315</b>	<b>26</b>	<b>650</b>

Semester IV											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07211401	Engineering Mathematics III	ES	4	2	0	0	0	50	75	5	125
07211402	Microprocessor Techniques	ID	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>45</b>	<b>3</b>	<b>75</b>
07211403	Theory of Computation	C	4	2	0	0	0	50	75	5	125
07211404	Principles of Programming languages	C	4	0	0	0	0	40	60	4	100
07211405	Software Engineering	C	4	0	0	0	0	40	60	4	100
07211406	Internet Technologies	C	4	0	0	0	0	40	60	4	100
07211407	Microprocessor Techniques Lab	ID	0	0	2	10	15	0	0	1	25
07211408	Principles of Programming languages Lab	C	0	0	2	10	15	0	0	1	25
07211409	Software Engineering Lab	C	0	0	2	10	15	0	0	1	25
07211410	Inter net Technologies Lab	C	0	0	2	10	15	0	0	1	25
<b>Total</b>			<b>23</b>	<b>4</b>	<b>8</b>	<b>40</b>	<b>60</b>	<b>250</b>	<b>375</b>	<b>29</b>	<b>725</b>

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Semester V											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07211501	Data Base Management Systems	C	4	0	0	0	0	40	60	4	100
07211502	Operating System	C	4	0	0	0	0	40	60	4	100
07211503	Data Communication	C	4	0	0	0	0	40	60	4	100
07211504	Object Oriented Analysis and Design	C	4	0	0	0	0	40	60	4	100
07211505	Design and Analysis of Algorithms	C	4	0	0	0	0	40	60	4	100
07211506	Data Base Management Systems Lab	C	0	0	4	20	30	0	0	2	50
07211507	Operating System Lab	C	0	0	2	10	15	0	0	1	25
07211508	Object Oriented Analysis and Design Lab	C	0	0	4	20	30	0	0	2	50
07211509	Design and Analysis of Algorithms lab	C	0	0	2	10	15	0	0	1	25
<b>Total</b>			<b>20</b>	<b>0</b>	<b>12</b>	<b>60</b>	<b>90</b>	<b>200</b>	<b>300</b>	<b>26</b>	<b>650</b>
Semester VI-A											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07211601	Industrial Project	C	0	0	0	0	0	400	0	16	400
07211602	Seminar	C	0	0	0	0	0	100	0	04	100
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500</b>	<b>0</b>	<b>20</b>	<b>500</b>
OR											
Semester VI-B											
07211603	Internship	PD	0	0	0	0	0	150	0	6	150
07211604	Advanced Databases	C	3	0	0	0	0	30	45	3	75
07211605	Entrepreneurship	GP	3	0	0	0	0	30	45	3	75
07211606	Project	PD	0	0	8	50	50	0	0	4	100
07211607	Liberal Arts	GP	0	0	4	50	0	0	0	2	50
07211608	Service Learning	GP	0	0	4	50	0	0	0	2	50
<b>Total</b>			<b>6</b>	<b>0</b>	<b>16</b>	<b>150</b>	<b>50</b>	<b>210</b>	<b>90</b>	<b>20</b>	<b>500</b>
OR											
Semester Exchange at Nanyang Technological University-Singapore											
07211602	Seminar	C	0	0	0	0	0	100	0	04	100
07211609	Project	C	0	0	0	0	0	100	0	04	100
07211610	Semester Exchange at	C							300	12	300

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	Nanyang Technological University-Singapore											
		<b>Total</b>								<b>20</b>	<b>500</b>	

<b>Semester VII</b>											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07211701	Distributed Systems	C	4	0	0	0	0	40	60	4	100
07211702	Computer Network	C	4	0	0	0	0	40	60	4	100
07211703	System Programming	C	4	0	0	0	0	40	60	4	100
07211704	Computer Graphics and Multimedia Techniques	C	4	0	0	0	0	40	60	4	100
07211705	Distributed Systems Lab	C	0	0	2	10	15	0	0	1	25
07211706	Computer Network Lab	C	0	0	2	10	15	0	0	1	25
07211707	System Programming Lab	C	0	0	2	10	15	0	0	1	25
07211708	Computer Graphics and Multimedia Techniques Lab	C	0	0	4	20	30	0	0	2	50
07211709-711	Elective-I	C	3	0	0	0	0	30	45	3	75
07211712-714	Elective-I Lab	C	0	0	2	10	15	0	0	1	25
	<b>Total</b>		<b>19</b>	<b>0</b>	<b>12</b>	<b>60</b>	<b>90</b>	<b>190</b>	<b>285</b>	<b>25</b>	<b>625</b>
<b>Electives for Semester VII</b>											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07211709	Embedded Systems	C	3	0	0	0	0	30	45	3	75
07211710	Data Warehousing and Mining	C	3	0	0	0	0	30	45	3	75
07211711	User Interface Design	C	3	0	0	0	0	30	45	3	75
07211712	Embedded Systems Lab	C	0	0	2	10	15	0	0	1	25
07211713	Data Warehousing and Mining Lab	C	0	0	2	10	15	0	0	1	25
07211714	User Interface Design Lab	C	0	0	2	10	15	0	0	1	25

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Semester VIII

Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07211801	Network Security	C	4	0	0	0	0	40	60	4	100
07211802	Compiler Construction	C	4	0	0	0	0	40	60	4	100
07211803	Network Security Lab	C	0	0	2	10	15	0	0	1	25
07211804	Compiler Construction Lab	C	0	0	2	10	15	0	0	1	25
07211805	Project	PD	0	0	12	90	60	0	0	6	150
07211806	Seminar	PD	0	2	0	30	20	0	0	2	50
07211807-810	Elective – II	C	3	0	0	0	0	30	45	3	75
07211811-814	Elective – II Lab	C	0	0	2	10	15	0	0	1	25
07211815-817	Elective – III	C	3	0	0	0	0	30	45	3	75
07211818-20	Elective – III Lab	C	0	0	2	10	15	0	0	1	25
<b>Total</b>			<b>14</b>	<b>2</b>	<b>20</b>	<b>160</b>	<b>140</b>	<b>140</b>	<b>210</b>	<b>26</b>	<b>650</b>
<b>Grand total (Excluding first year) VII- A</b>			<b>96</b>	<b>8</b>	<b>62</b>	<b>370</b>	<b>455</b>	<b>1490</b>	<b>1485</b>	<b>152</b>	<b>3800</b>
<b>Grand total (Excluding first year) VII- B</b>			<b>102</b>	<b>8</b>	<b>62</b>	<b>520</b>	<b>495</b>	<b>1200</b>	<b>1575</b>	<b>152</b>	<b>3800</b>

Electives for Semester VIII

Subject Code	Elective – II	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
07211807	Artificial Intelligence	C	3	0	0	0	0	30	45	3	75
07211808	Image Processing & Pattern Recognition	C	3	0	0	0	0	30	45	3	75
07211809	Mobile Computing	C	3	0	0	0	0	30	45	3	75
07211810	Cloud Computing	C	3	0	0	0	0	30	45	3	75
07211811	Artificial Intelligence Lab	C	0	0	2	10	15	0	0	1	25
07211812	Image Processing & Pattern Recognition Lab	C	0	0	2	10	15	0	0	1	25
07211813	Mobile Computing Lab	C	0	0	2	10	15	0	0	1	25
07211814	Cloud Computing Lab	C	0	0	2	10	15	0	0	1	25

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**Electives for Semester VIII**

Subject Code	Elective – III	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
07211815	Internet and Web Technologies	C	3	0	0	0	0	30	45	3	75
07211816	Web Services and SOA	C	3	0	0	0	0	30	45	3	75
07211817	Software Architecture	C	3	0	0	0	0	30	45	3	75
07211818	Internet and Web Technologies Lab	C	0	0	2	10	15	0	0	1	25
07211819	Web Services and SOA Lab	C	0	0	2	10	15	0	0	1	25
07211820	Software Architecture Lab	C	0	0	2	10	15	0	0	1	25

All the students of B. Tech. will study one inter institutional course of 2 credits during semester III and semester IV

L- Lecture , T-Tutorial, HA-Home Assignment

C - Core Subject

ES - Engineering Science Subject

GP - General Proficiency Subject

ID - Inter Disciplinary Subject

PD - Professional Development Subject

CA- Continuous Assessment, ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

Int- Internal (Practical)

Ext- External (Practical)

Practical external examination may be conducted by alternate internal faculty

# - Credits Over & above 200