

**Computer Engineering Department , Indus Institute of Engineering & Technology, Indus University**  
**Program - B. Tech (Computer Engineering)**

**SEMESTER - I**

Sr. No.	Name of the subject	Credit	Teaching Scheme (per week)				Evaluation Scheme						Category	
			Th.	Tut.	Pr.	Tot (hr.)	Theory		Practical		Total			
							CIE	Th.	ESE	Th.	Pr.	ESE		Pr.
1	MA0111 Calculus	4	3	1	0	4	60	40	0	0	100	BS		
2	CH0011 Engineering Chemistry	4	3	0	2	5	60	40	60	40	200	BS		
3	EN0111 Technical Communication	2	1	0	2	3	60	40	60	40	200	HS		
4	<i>Open Elective 1</i>	3	3	0	0	3	60	40	0	0	100	OE		
5	ME0019 Engineering Graphics	3	1	0	4	5	60	40	60	40	200	ES		
6	CV0004 Environmental Science	2	2	0	0	2	60	40	0	0	100	ES		
7	<i>Open Elective 2</i>	3	3	0	0	3	60	40	0	0	100	OE		
8	Indian Knowledge System	3	3	0	0	3	100	0	0	0	100	VA		
	<b>Total</b>	<b>24</b>	<b>19</b>	<b>1</b>	<b>8</b>	<b>28</b>	<b>520</b>	<b>280</b>	<b>180</b>	<b>120</b>	<b>1100</b>			

**SEMESTER - II**

Sr. No.	Name of the subject	Credit	Teaching Scheme (per week)				Evaluation Scheme						Segment
			Th.	Tut.	Pr.	Tot (hr.)	Theory		Practical		Total		
							CIE	ESE	CIE	ESE	ESE	Pr.	
							Th.	Th.	Pr.	Pr.	Pr.	Pr.	
1	MA0211	Differential Equations & Linear Algebra	4	3	1	0	4	60	40	0	0	100	BS
2	PH0011	Engineering Physics	4	3	0	2	5	60	40	60	40	200	BS
3	EN0211	Business Communication & Presentation Skills	2	1	0	2	3	60	40	60	40	200	HS
4		<i>Open Elective 3</i>	3	3	0	0	3	60	40	0	0	100	OE
5	ME0117	Workshop Practice	2	0	0	4	4	0	0	60	40	100	ES
6	CE0216	Programming for Problem Solving	4	3	0	2	5	60	40	60	40	200	ES
		Indian Science Technology	1	1	0	0	0	100	0	0	0	100	VA
		Total	20	14	1	10	24	400	200	240	160	1000	

**SEMESTER - III**

Sr. No.	Name of the subject	Credit	Teaching Scheme (per week)					Evaluation Scheme						Segment
			Th.	Tut.	Pr.	Total (hr.)	Theory		Practical		Total			
							CIE	ESE	CIE	ESE	Marks	Marks		
							Th.	Th.	Pr.	Pr.				
1	MA0311 Probability, Statistics & Numerical Methods	4	3	1	0	4	60	40	0	0	100	100	BS	
2	CE0320 Computer Organization & Architecture	3	3	0	0	3	60	40	0	0	100	100	Core	
3	EC0319 Digital Electronics	4	3	0	2	5	60	40	60	40	200	200	ES	
4	CE0316 Object Oriented concepts with UML	4	3	0	2	5	60	40	60	40	200	200	Core	
5	CE0317 Database Management System	4	3	0	2	5	60	40	60	40	200	200	Core	
6	SS0301 Human Values and Professional Ethics	2	2	0	0	2	100	0	0	0	100	100	HS	
7	CE0318 Internship Credit /Online courses/ MOOC	2	0	0	0	0	0	0	100	0	100	100	IC	
	<b>TOTAL</b>	<b>23</b>	<b>17</b>	<b>1</b>	<b>6</b>	<b>24</b>	<b>400</b>	<b>200</b>	<b>280</b>	<b>120</b>	<b>1000</b>	<b>1000</b>		

SEMESTER - IV														
Sr. No.	Name of the subject	Credit	Teaching Scheme (per week)					Evaluation Scheme					Segment	
			Theory		Practical			Theory		Practical				Total Marks
			CIE	ESE	CIE	ESE	Pr.	ESE	Pr.	Total Marks				
			Th.	Tut.	Pr.	Tot. (hr.)	Th.	Pr.	Th.		Pr.			
1	CE0425	2	0	1	2	3	0	0	100	0	100	ES		
2	CE0417	4	3	0	2	5	60	40	200	40	200	Core		
3	CE0418	4	3	0	2	5	60	40	200	40	200	Core		
4	BB0311	2	2	0	0	2	60	40	100	0	100	HS		
5	CE0421	4	3	0	2	5	60	40	200	40	200	Core		
	<i>Open Elective 4</i>	3	3	0	0	3	60	40	100	0	100	OE		
6	<i>Open Elective 5</i>	3	3	0	0	3	60	40	100	0	100	OE		
	<b>TOTAL</b>	22	17	1	8	26	360	240	1000	280	120			

**SEMESTER - V**

Sr. No.	Name of the subject	Credit	Teaching Scheme (per week)				Evaluation Scheme						Segment
			Th.	Tut.	Pr.	Tot (hr.)	Theory		Practical		Total		
							CIE	ESE	CIE	ESE	ESE	Marks	
							Th.	Th.	Pr.	Pr.			
1	CE0516 Design and Analysis of Algorithms	4	3	0	2	5	60	40	60	40	200	200	Core
2	CE0517 Microprocessing and Interfacing	4	3	0	2	5	60	40	60	40	200	200	ES
3	CE0518 Computer Networks	4	3	0	2	5	60	40	60	40	200	200	Core
4	<i>Open Elective 6</i>	3	3	0	0	3	60	40	0	0	100	100	OE
5	CE0525 Programming for Scientific Computing	4	3	0	2	5	60	40	60	40	200	200	Core
6	CE0522 Web Technology	4	3	0	2	5	60	40	60	40	200	200	Core
7	CE0523 Internship Credit /Online courses/ MOOC	2	0	0	0	0	0	0	100	0	100	100	IC
	<b>Total</b>	<b>25</b>	<b>18</b>	<b>0</b>	<b>10</b>	<b>28</b>	<b>360</b>	<b>240</b>	<b>400</b>	<b>200</b>	<b>1200</b>	<b>1200</b>	

**SEMESTER - VI**

Sr. No.	Name of the subject	Credit	Teaching Scheme (per week)					Evaluation Scheme					Segment	
			Th.	Tut.	Pr.	Total (hr.)	Theory		Practical		Total			
							CIE	ESE	CIE	ESE	Marks	Marks		
							Th.	Pr.	Th.	Pr.				
1	CE0616 Software Engineering with UML	4	3	0	2	5	60	40	60	40	200	200	Core	
2	CE0617 Theory of Computation	4	4	0	0	4	60	40	0	0	100	100	Core	
3	CE0630 Data Science													
	CE0631 Information Retrieval	4	3	0	2	5	60	40	60	40	200	200	PE	
	CE0632 Web Data Management													
4	CE0618 Advanced Java Technology													
	CE0619 Advance .Net Framework	4	3	0	2	5	60	40	60	40	200	200	PE	
	CE0628 Mobile Application Development ( Android & iOS )													
6														
5	CE0633 Distributed Systems	4	3	0	2	5	60	40	60	40	200	200	PE	
	CE0634 Cryptography & Network Security													
	CE0629 Data Compression													
6	<i>Open Elective 7</i>	3	3	0	0	3	60	40	0	0	100	100	OE	
	<i>Research Guided Seminar</i>	2	0	2	0	2	100	0	0	0	0	0	HS	
7	CE0622 Internet of Things	4	3	0	2	5	60	40	60	40	200	200	ES	
	<b>TOTAL</b>	29	22	2	10	34	520	280	300	200	1200	1200		

**SEMESTER - VII**

Sr. No.	Name of the subject	Credit	Teaching Scheme (per week)				Evaluation Scheme						Segment
			Total (hr.)			Theory		Practical		Total Marks			
			Th.	Tut.	Pr.	CIE	ESE	CIE	ESE	Pr.	Pr.		
						Th.	Th.	Pr.	Pr.				
1	CE0716   Data Warehouse & Mining	4	3	0	2	5	60	40	60	40	40	200	PE
	CE0718   Advance Computer Architecture												
	CE0721   Advance Operating System												
2	CE0717   Compiler Design	4	3	1	0	4	60	40	0	0	0	100	Core
	<i>Open Elective 8</i>												
3	Cyber Security	3	2	0	2	4	0	0	0	0	0	0	OE
	Block Chaining												
	Soft Computing												
	Embedded System												
4	CE0728 * Natural Language Processing (4+0+0)	4											
	CE0730   Human Computer Interface												
	CE0732   Computer Vision and Applications												
	CE0723   Cloud Computing												
5	CE0727   Software Group Project-I	2	0	1	2	3	0	0	100	0	0	0	PRJ
	<i>Open Elective 9</i>												
6	CE0726   Internship Credit /Online courses/ MOOC	2	0	0	0	0	60	40	0	0	0	100	OE
	IT0501   Computer Graphics	22											
	IT0701   Artificial Intelligence												
	IT0602   Big Data Analytics												
	CS0602   Data Preparation & Analysis												
	CS0501   Advance Microprocessor												
	CS0701   Machine Learning												
	CE0716   Data Warehouse & Mining												
	CE0617   Theory of Computation												
	CE0717   Compiler Design												
CE0517   Microprocessing and Interfacing													
	Total		11	2	8	19	240	160	320	80	700		

Extra Credit PE

**SEMESTER - VIII**

Sr. No.	Name of the subject	Credit	Teaching Scheme (per week)				Evaluation Scheme						Segment
			Th.	Tut.	Pr.	Total (hr.)	Theory		Practical		Total		
							CIE	ESE	CIE	ESE	Marks	Marks	
							Th.	Th.	Pr.	Pr.			
1	CE0816 Project	14	0	0	28	0	0	60	40	100	100	PRJ	
	Total	14	0	0	28	0	0	60	40	100	100		