### Curriculum Structure

			Semester II	l (Second year)				
SI No		Type of Course	Code Cou	Course Title	Hours per week			Credit
100					L	Т	Р	-
1		Engineering Science Course	ESC301	Analog and Digital Electronics	3	0	0	3
2		Professional Core Course	PCC-CS301	Data Structure and Algorithms	3	0	0	3
3	IRY	Professional Core Course	PCC-CS302	Computer Organization	3	0	0	3
4	THEORY	Basic Science Course	BSC-CS301	Discrete Mathematics	2	0	0	2
5		Humanities Social Science including Management Course	HSMC301	Economics for Engineers (Humanities II)	3	0	0	3
6		Professional Core Course	PCC-CS391	Data Structure and Algorithms	0	0	4	2
7		Engineering Science Course	ESC391	Analog and Digital Electronics	0	0	4	2
8	PRAC	Professional Core Course	PCC-CS392	Computer Organization	0	0	4	2
9		Professional Core Course	PCC-CS393	IT Workshop (Python/Matlab/R)	0	0	4	2
			TOTAL CREE	DITS				22

		(- <b>PP</b> •		(Second year)						
S1 No		Type of Course	Code	Course Title		week				Credits
1	RY	Professional Core Course	PCC-CSY401	Probability and Statistics	3	0	0	3		
2	THEORY	Professional Core Course	PCC-ICB401	Data Communication and Networks	3	0	0	3		
3		Professional Core Course	PCC-CS403	Formal Languageand Automata Theory	3	0	0	3		
4		Professional Core Course	PCC-CS404	Design and Analysis of Algorithm	3	0	0	3		
5		Basic Science Course	BSC401	Biology	2	1	0	3		
6		Mandatory Course	MC401	Environmental Science	2	0	0	2		
7	TICAL	Professional Core Course	PCC-ICB491	Data Communication and Networks Lab	0	0	4	2		
8	PRACTIC	Professional Core Course	PCC-CS494	Design and Analysis of Algorithm Lab	0	0	4	2		
			TOTAL CREDI	TS		1		21		

			Semester	· V (Third year)				
Sl No		Type of Course	Code *	Course Title	Hours per week		r	Credits
				-	L	Т	Р	
1		Professional Core Course	PCCCS501	Cyber Security	3	0	0	3
2		Professional Core Course	PCCCS502	Cyber Law & Cyber Crime	3	0	0	3
3		Professional Core Course	PCCCS503	Operating System	3	0	0	3
4		Professional Core Course	PCCICB502	Object Oriented Programming	3	0	0	3
5	THEORY	Humanities and Social Sciences including Management	HSMC501	Industrial Management	2	0	0	2
6		Professional Elective	PECICB501 (A/B/C)	Mobile Computing/ Internet Technology/Smart Sensors and IoT	3	0	0	3
7	_	Mandatory Course	MC-501	Constitution of India / Essence of Indian Knowledge Tradition	2	0	0	0
8	AL	Professional Core Course	PCCCS591	System Security Lab	0	0	4	2
9	PRACTICAL	Professional Core Course	PCCCS592	Operating System Lab	0	0	4	2
10	PRA	Professional Core Course	PCCICB593	Object Oriented Programming Lab	0	0	4	2
		1	TOTAL CR	EDITS				23

			Semester V	/I (Third year)				
Sl No		Type of Course	Code*	Course Title	Hours per week			Credits
					L	Т	Р	-
1		Professional Core Course	PCCCS601	Cryptography and Network Security	2	1	0	3
2	-	Professional Core Course	PCCCS602	Infrastructure Security	3	0	0	3
3		Professional Core Course	PCCCS603	Database Management System	3	0	0	3
4	Theory	Professional Elective	PECICB601 (A/B/C /D/E)	Cloud Computing/ Software Engineering/ Ethical Hacking	3	0	0	3
5		Open Elective	OECICB601 (A/B/C/D)	Human Resource Development/ Design Thinking/ Economic Policies India/Organizational Behaviour	3	0	0	3
6		Project	PROJ-CS601	Research Methodology	2	0	0	2
7	<b>FICA</b>	Professional CoreCourse	PCCCS691	Network Security Lab	0	0	4	2
8	PRACTICA L	Professional Elective Course	PCCCS692	Database Management System lab	0	0	4	2
			TOTAL CRE	DITS				21

			Semester V	II (Fourth year)				
SINo		Type of Course	Code* Course Title	Hours per week			Credits	
					L	Т	Р	
1		Professional Elective Course	PECICB701 (A/B/C)	Digital Forensics/ Information Theory and Coding/ Blockchain Technology	3	0	0	3
	нци	Professional Elective Course	PECICB702 (A/B/C)	AI&ML/ Malware Analysis/ Mobile Application and Services	3	0	0	3
2								
3		Open ElectiveCourse	OECICB701 (A/B/C)	Soft skill and Interpersonal Communication/Bio Informatics/	3	0	0	3
4		Humanities and Social Sciences including	HSMC701	Business Analytics Project Management andEntrepreneurship	2	0	0	2
	-	Management						
5		Sessional	PROJICB7 81	Project I	0	0	12	6
			TOTAL CRE	DITS				17

SINo		Type of Course	Code* Course Title	Hou	veek	Credits		
				-	L	Т	Р	
1		Professional Elective Course	PECICB801 (A/B)	Information Security Management System (ISMS)/ Distributed System	3	0	0	3
2	нц	Open Elective Course	OECICB801(A/ E /C)	B Security Operations Management/ E-commerce and Digital Payment System/Operations Research	3	0	0	3
3		Open Elective Course	OECICB802 (A /B/C)	Management Information System(MIS)/ Multimedia Technology/ Introduction to Arts and Aesthetics	3	0	0	3
4		Sessional-1	PROJICB881	Project II	0	0	12	6
	<u>ı                                    </u>		TOTAL CREDI	TS			1	15