V Semester B. Tech. (Information Technology)

Sr No	Course Code	Course Title	L	T	P	Credits	Continual Assessment	End Sem Examination	Total
			Hours per Week			**Credits**	**Maximum Marks**		
1	22IT501T	Database Management System	3	-	-	3	30	70	100
2	22IT501P	Database Management System Lab	-	-	2	1	25	25	50
3	22IT502T	Design and Analysis of Algorithms	4	-	-	4	30	70	100
4	22IT502P	Design and Analysis of Algorithms Lab	-	-	2	1	25	25	50
4	22IT503T	Operating Systems	3	1	-	4	30	70	100
5	22IT561O	Open Elective - I	3	-	-	3	30	70	100
6	22IT504T	Professional Elective - I	3	1	-	4	30	70	100
7	22AS501T	Economics and Management	3	-	-	3	30	70	100
8	22IT505P	Technical Skill Development - II	-	-	2	1	50	-	50
9	22IT506T	Career Development - III	2	-	-	0	Audit		
		Total	**21**	**2**	**6**	**24**	**280**	**470**	**750**

22IT561O	Open Elective - I
22IT561O (i)	OE-I Web Development
22IT561O (ii)	OE-I Computer Animation

22IT504T	Professional Elective - I
22IT504T(i)	PE-I Advance Computer Network
22IT504T(ii)	PE-I Computer Graphics and Animation
22IT504T(iii)	PE-I IoT DevOps

		July 2023	1.2	Applicable for 2024-25
Chairman - BoS	Dean – Academics	Date of Release	Version	

ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2022-23

INFORMATION TECHNOLOGY

VI Semester B. Tech. (Information Technology)

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	22IT601T	Java Programming	3	-	-	3	30	70	100
2	22IT601P	Java Programming Lab	-	-	2	1	25	25	50
3	22IT602T	Artificial Intelligence & Machine Learning	3	-	-	3	30	70	100
4	22IT602P	Artificial Intelligence & Machine Learning Lab	-	-	2	1	25	25	50
5	22IT603T	Professional Elective - II	3	-	-	3	30	70	100
6	22IT604T	Professional Elective - III	3	-	-	3	30	70	100
7	22IT661O	Open Elective-II	3	-	-	3	30	70	100
8	22H104	Foundational Humanities Elective	2	-	-	-	Audit		
9	22AS502T	English for Engineers	2	-	-	2	15	35	50
10	22IT605P	Project - I	-	-	2	1	50	50	100
11	22IT606T	Career Development- IV	2	-	-	0	Audit		
12	22IT607P	Capstone Course – I **	-	-	2	1	25	25	50
		Total	**21**	**0**	**8**	**21**	**290**	**510**	**800**

** Capstone Course – I (Comprehensive knowledge gained in *<Information Technology>*)

22IT603T	Professional Elective - II
22IT603T(i)	PE-II Cloud Computing
22IT603T(ii)	PE-II Mobile Application Development
22IT603T(iii)	PE-II Wireless Sensor Networks

22IT604T	Professional Elective - III
22IT604T(i)	PE-III Gaming Architecture and Programming
22IT604T(ii)	PE-III Human Computer Interface
22IT604T(iii)	PE-III Blockchain Technology

22IT661O	Open Elective - II	22H104	Foundational Humanities Elective
22IT661O (i)	OE-II Ethics in Information Technology	22H104	Development of Societies
22IT661O (ii)	OE-II Software Testing and Quality Assurance		

		July 2023	1.2	Applicable for 2024-25
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