V Semester

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1.	22DS501T	Design and Analysis of Algorithms	3	-	-	3	30	70	100
2.	22DS501P	Design and Analysis of Algorithms Lab	-	-	2	1	25	25	50
3.	22DS502T	Operating Systems	3		-	3	30	70	100
4.	22DS503T	Machine Learning for Data Science	3	-		3	30	70	100
5.	22DS503P	Machine Learning for Data Science Lab	-	-	2	1	25	25	50
6.	22DS504T	Professional Elective-I	3		-	3	30	70	100
7.	22DS505P	Computer Lab-II	-	-	2	1	25	25	50
8.	22AS501T	Economics and Management	3	-	-	3	30	70	100
9.	22DS561O	Open Elective - I	3	-	-	3	30	70	100
10.	22DS506P	Technical Skill Development - II	-	-	2	1	50	-	50
11.	22DS507T	Career Development - III	2	-	-	0	Audit		
Total			**20**		**8**	**22**	**305**	**495**	**800**

22DS561O	Open Elective - I
22DS561O(i)	OE-I Data Analytics

22DS504T	Professional Elective - I
22DS504T(i)	PE-I Distributed Database & Object Oriented databases
22DS504T(ii)	PE-I Data Warehousing & Mining
22DS504T(iii)	PE- I Computer System Security

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VI Semester

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Continual Assessment	End Sem Examination	Total
1	22DS601T	Software Engineering and Project Management	3	-	-	3	30	70	100
2	22DS601P	Software Engineering and Project Management Lab	-	-	2	1	25	25	50
3	22DS602T	Theory of Computation	3	-	-	3	30	70	100
4	22DS603T	Data Center Management and Cloud Computing	3	-	-	3	30	70	100
5	22DS604T	Professional Elective-II	3	-	-	3	30	70	100
6	22DS605P	Computer Lab III	-	-	2	1	25	25	50
7	22DS661O	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	22DS607P	Project - I	-	-	2	1	50	50	100
11	22DS608T	Career Development - IV	2	-	-	0	Audit		
12	22DS609P	Capstone Course – I **	-	-	2	1	50	-	50
Total			**21**		**08**	**21**	**290**	**510**	**800**

** Capstone Course – I (Comprehensive knowledge gained in *Computer Science & Engineering (Data Science)*)

22DS661O	Open Elective - II
22DS661O (i)	OE-II Business Intelligence

	Foundational Humanities Elective
H-103	Development of Societies
H-104	Philosophy

22DS604T	Professional Elective - II
22DS604T(i)	PE-II Soft Computing
22DS604T(ii)	PE-II Computer Vision
22DS604T(iii)	PE-II Cyber Laws and Ethics

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