SEMESTER WISE CREDIT DISTRIBUTION, MARKS AND CONTACT HOURS

Generic (Cluster): Data Science

Programme: B.Sc., (Data Science)

Supportive Discipline: Mathematics and Statistics

Sem	Part	Course Type	Course Code	Course Title	Contact Hrs.	Credits	Marks		Total Marks
							Int	Ext	
I	I	Language	24UGT101/ 24UGA101/ 24UGH101	Tamil ElakkiaVaralaru – I Basic Arabic Hindi	6	3	25	75	100
	II	English	24UGE201	General English I	6	3	25	75	100
	III	Generic Core - I	24UCP401	Principles of Programming with C	4	4	25	75	100
		Generic Core - II	24UCP402	Digital Computer Fundamentals	4	4	25	75	100
		Generic Core – Laboratory I	24UCP451	Programming with C Lab	4	2	40	60	100
		Allied–I	24UMA303	Mathematical Probability	4	3	25	75	100
	IV	Foundation Course	24UFO901	Value Education	2	2	25	75	100
Total					**30**	**21**	**-**	**-**	**700**
II	I	Language	24UGT102/ 24UGA102/ 24UGH102	Tamil ElakkiaVaralaru – II Grammar and Translation Hindi - II	6	3	25	75	100
	II	English	24UGE202	General English - II	6	3	25	75	100
	III	Discipline Core – I	24UDS501	Introduction to Data Science	4	4	25	75	100
		Discipline Core – Laboratory II	24UDS551	Data Science Lab	4	2	40	60	100
		Allied–II	24UMA304	Linear Algebra& Calculus	4	3	25	75	100
		Allied Laboratory I	24UMA352	Mathematics Lab for Data Science	4	2	40	60	100
		Foundation Course	24UDS591	Field Work	-	2	40	60	100
	IV		24UFC905	Environmental Studies	2	2	25	75	100
Total					**30**	**21**	**-**	**-**	**800**
III	I	Language	24UGT103/ 24UGA103/ 24UGH103	Tamilaga Varalarum Panpadum Prose and Poetry Hindi - III	6	3	25	75	100
	II	Language	24UGE203	General English - III	6	3	25	75	100
	III	Generic Core – III	24UCP403	Python Programming	4	4	25	75	100
		Generic Core – Laboratory II	24UCP452	Python Programming Lab	4	4	25	75	100
		Generic Core – IV	24UCP404	Data Structures and	4	2	40	60	100

				Algorithm					
		Allied–III	24UMA313	Fundamentals of Mathematics	3	3	25	75	100
	IV	Ability Enhancement	24UAB361	Life Skills	2	2	25	75	100
	V		24UHW951	Health &Wellness	1	1	-	-	100
Total					**30**	**22**	**-**	**-**	**800**
IV	I	Language	24UGT104/ 24UGA104/ 24UGH104	Tamilum Ariviyalum Arabic Languages Skills and Literary History Hindi - IV	6	3	25	75	100
	II	Language	24UGE204	General English - IV	6	3	25	75	100
	III	Discipline Centric Core – II	24UDS502	R Programming for Statistics	4	4	25	75	100
		Discipline Core – Laboratory II	24UDS553	R Programming Lab	4	2	40	60	100
		Allied–IV	24UMA314	Mathematical Statistics	4	3	25	75	100
		Allied Laboratory II	24UMA357	Statistics Lab for Data Science	4	2	40	60	100
		Ability Enhancement - IV	24UDS592	Internship	-	2	40	60	100
	IV		24UAB371	Soft and Quantitative skills	2	2	25	75	100
Total					**30**	**21**	**-**	**-**	**800**
V	III	Discipline Centric Core – III	24UDS503	Large Language Model	4	4	25	75	100
		Discipline Centric Core Course– VI	24UDS504	AI and Cyber Security	4	4	25	75	100
		Discipline Centric Core Course– VI	24UDS505	Data Wrangling	4	4	25	75	100
		Discipline Centric Core– Laboratory III	24UDS553	Security Wrangling Lab	4	4	25	75	100
		Discipline Centric Core Course– VI	24UDS506	Supervised and Unsupervised Learning for Data Network Science	4	2	40	60	100
		Discipline Centric Elective	24UDS705 or 24UDS701	Data Architecture or Advanced Data Science	4	4	25	75	100
		Discipline Centric Elective Courses Laboratory	24UDS753 or 24UDS751	Data Architecture Lab or Advanced Data Science lab	4	2	40	60	100
	IV	Ability Enhancement	24UDS381	Cloud Platforms Lab	2	2	40	60	100
Total					**30**	**26**			**800**

TOTAL CREDITS: 21+21+22+21+26+26+3 = 140 Credits

TOTALMARKS:700+800+800+800+800+700 = 4600 Marks