

# B.Sc. Data Sciences (2021-2024)

Sem	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Comm. services	GP	Con t. hrs.	Cred .
I	CLL 101 Effective Communicati on- I 2.5(2-0-1)	MAL 151 Engineering Maths I 4(3-0-2)	PYL 102N Fundamentals of Physics 4(3- 0-2)	MAL109 Introduction to Statistics (4-0-0)4	CHL100 Environment al Studies 3(3- 0-0)	CSL106 FOCP-I 4 (2-0-4)		MAS 100 CS-I	MAR 100 (1)	26	22.5
II	CLL 102 Effective Communicati on- II 2.5(2-0-1)	MAL 209 Data Analysis 4(3-0-2)		MAL 152 Engineering Maths II 4(3-0-2)	CSL108 FOCP-II (2-0-4)4	BSL101 Entrepreneur ship (2-0-2)3	CLL 120 HVPE 2(2-0-0)	MAS 102 CS-II (140hrs)* 2Credits	MAR 111 (1)	25	22.5
III	MAL 102 Analysis I 4(3-1-0)	MAL 313 Integral & Vector Calculus 4(3-1-0)	PE 1 CSL209 Data Structures 4(3-0-2)	PE 2 CSL 225 Programming for Data Science 4 (2-0-4)	Open Elective I 3(3-0-0)	MAL 304N Probability and Statistics 4(3-1-0)		MAS 201 CS-III	MAR 200 (1)	26	24
IV	MAL 104 Differential Equations I 4(3-1-0)	PE 3 MAL307 Discrete Mathematics 4 (3-1-0)	PE 4 DBMS 4(3-0-2)	PE 5 CLL227 Applied Computational Statistics 4)	Open Elective II 3(3-0-0)	Foreign Language 3(1-2-0)		MAS 202 CS-IV (140hrs)* 2Credits	MAR 210 (1)	25	25
	MAI 240 Summer Internship (0-0-6)3										3
V	MAL 208 Linear Algebra 4(3-1-0)	MAL 206 Mathematical Statistics 3(2-0-2)	PE 6 CSL236 Introduction to AI and ML 4 (3-0-1)	PE 7 CSL232 Business Intelligence and Data Visualization 4(2-0-4)	Open Elective III 3(3-0-0)	MAD 350 Project 4(0-0-8)		MAS 301 CS-V	MAR 300 (1)	21	23
VI	MAL 310 Numerical Analysis 3(2-0-2)	CLP300 Campus to Corporate (1- 0-0)1	PE 8 CSL313 Machine Learning 4(2-0-4)	PE 9 CSL311 Big Data 4(2-0-4)	Open Elective IV 3(3-0-0)	MAD 350 Project 4(0-0-8)		MAS 302 CS-VI (140hrs)* 2Credits	MAR 310 (1)	19	22
Total										142	142

\*Students can utilize the entire year including the summer/break period for completing 140 community service hours.