A Sample Study Plan for BSc in Data Science and Machine Learning

Semester	Course Code	Course Title	Credits
First	ARAB100	Arabic Language I	2
	COMP101.	Computer Skills	2
	ENGL151	English Language I	2
	MATH116	Pre-Calculus	4
	STAT101	Introduction to Statistics	4
Second	ARAB101	Arabic Language II	2
	ENGL152	English Language II	2
	COMP151	Introduction to Algorithms	4
	MATH211	Calculus I	4
	DSML101	Data Science Basics	3
Third	COMP152	Structured Programming	3
	DSML111	Data Wrangling	3
	DSML211	Tools and Algorithms for Data Science	3
	MATH145	Linear Algebra	3
	COMP270	Web Development	3
Fourth	COMP244	Database Concepts and Applications	3
	MATH212	Calculus II	3
	DSML212	Data Analytics	3
	COMP222	Object Oriented Programming	3
	CARC300	Career Counseling	1
	DSML222	Advanced Data Science Programming	3
Fifth	STAT210	Principles of Probability	3
	COMP255	Data Structures	3
	DSML200	Information Visualization	3
	DSML222	Advanced Data Science Programming	3
	DSML300	Practicing Machine Learning and AI	3
	HIST150	Islamic Civilization	3
Sixth	DSML351	Boosting Algorithms and Ensemble Learning	3
	DSML305	Graph and Social Network Analysis	3
	DSML355	Time Series Analysis	3
	DSML344	Programming Models for Big Data	3
	COMP450	Digital Image Processing	3
Seventh	DSML498	Internship	12
Eighth	DSML499	Graduation Project	6
	DSML446	Advanced Seminar in Data Science and Machine Learning	1
	DSMLxxx	Program Elective 1	3
	DSML494	Data Science & Society: Ethical, Legal, Social Issues	2
	MNGT100	Introduction to Entrepreneurship	3
Ninth	DSML405	Deep Learning and Graphical Models	3
	DSMLxxx	Program Elective 2	3
	DSMLxxx	Program Elective 3	3
	DSMLxxx	Program Elective 4	3
	DSMLxxx	Program Elective 5	3

*The Practical Project Work and Internship can be registered only after completing a minimum of 90 credits hours.