

## Recommended Semester Plan for Data Science Major

S. No.	Module Code	Module Title	MCs	Semester
1	ZZ-1101	Mathematical Methods for the Sciences (Degree Core)	4	<i>1st</i>
2	ZZ-1102	Programming Fundamentals (Degree Core)	4	
3	LE-1503	Communication Skills I: Academic Reading and Writing Skills	4	
4	ZC-1201	Computer Architecture and Organisation (Major Core)	4	
		<b>Semester MCs</b>	<b>16</b>	
5	ZZ-1103	Introduction to Digital Transformation (Degree Core)	4	<i>2nd</i>
6	ZD-1201	Introduction to Data Analytics (Major Core)	4	
7	PB-1503	Melayu Islam Beraja (MIB)	4	
8	LE-2503	Communication Skills II: Academic Report Writing and Presentation	4	
9		Major Option Level 1 or higher (ZC-1202 or ZS-1201)	4	
		<b>Semester MCs</b>	<b>20</b>	
10	ZC-2201	Database Design (Major Core)	4	<i>3rd</i>
11	ZC-2203	Computer Networks (Major Core)	4	
12	ZC-2205	Data Structures and Algorithms (Major Core)	4	
13	MS-1501	Islamic Civilisation and the Modern World	4	
14		Major Option Level 2 or higher (ZA-2201 or ZA-2202 or ZS-2201)	4	
		<b>Semester MCs</b>	<b>20</b>	
15	BB-2207	Business Information System (Major Core)	4	<i>4th</i>
16		Major Option Level 2000 or higher	4	
17		Major Option Level 2000 or higher	4	
18		Remaining Breadth or Option	4	
		<b>Semester MCs</b>	<b>16</b>	
19	ZD-3201	Data Analytics Lab (Major Core)	4	<i>5th</i>
20	ZA-3202	Machine Learning (Major Core)	4	
21		Major Option Level 2000 or higher	4	
22		Remaining Breadth or Option	4	
		<b>Semester MCs</b>	<b>16</b>	
23	DW-3001	DY 1	16	<i>6th</i>
		<b>Semester MCs</b>	<b>16</b>	
24	DW-3002	DY 2	16	<i>Summer</i>
		<b>Semester MCs</b>	<b>16</b>	
25	ZC-4202	Entrepreneurship for Digital Scientists (Major Core)	4	<i>7th</i>
26	ZD-4290	Final Year Project (Major Core)	4	
27	ZD-4201	Big Data Analytics and Data Warehouse (Major Core)	4	
28		Major Option Level 2000 or higher	4	
		<b>Semester MCs</b>	<b>16</b>	
29	ZD-4290	Final Year Project (Major Core)	4	<i>8th</i>
30		Major Option Level 4000	4	
31		Major Option Level 4000	4	
32		Major Option Level 2000 or higher	4	
		<b>Semester MCs</b>	<b>16</b>	
		<b>Total MCs</b>	<b>152</b>	