S P Jain
London School
of Management

BSc Data Science

Study in London

Graduate with an OfS-registered UK degree

Curriculum

YEAR 1 - SEMESTER 1

CODE	MODULE TITLE	LEVEL	CREDIT VALUE	CORE/ELECTIVE
BDS 401	Discrete Mathematics	4	15	None
BDS 402	Statistics & Probabilities	4	15	None
BDS 403	Introduction to Computer Programming	4	15	None
BDS 404	Introduction to Databases	4	15	None
	TOTAL SEMESTER 1 CREDITS		60	

YEAR 1 - SEMESTER 2

CODE	MODULE TITLE	LEVEL	CREDIT VALUE	CORE/ELECTIVE
BDS 405	Linear Algebra	4	15	None
BDS 406	Calculus	4	15	None
BDS 407	Introduction to Data Science	4	15	None
BDS 408	Statistical Data Analysis	4	15	None
	TOTAL SEMESTER 2 CREDITS		60	

YEAR 2 - SEMESTER 3

CODE	MODULE TITLE	LEVEL	CREDIT VALUE	CORE/ELECTIVE
BDS 501	Advanced Calculus	5	10	BDS 406 Calculus
BDS 502	Algorithms and Data Structures	5	15	BDS 404
BDS 503	Data Integration and Warehousing	5	10	Introduction to Databases
BDS 504	Machine Learning	5	15	None
BDS 505	Cloud Computing	5	10	None
	TOTAL SEMESTER 3 CREDITS		60	

YEAR 2 - SEMESTER 4

CODE	MODULE TITLE	LEVEL	CREDIT VALUE	CORE/ELECTIVE
BDS 506	Advanced Linear Algebra	5	10	BDS 405 Linear Algebra
BDS 507	Simulation Modelling	5	10	None
BDS 508	Natural Language Processing	5	15	None
BDS 509	Visual Analytics	5	15	None
BDS 510	Ethics & Moral Reasoning	5	10	None
	Internship	5	Pass/Fail	
	TOTAL SEMESTER 4 CREDITS		60	

YEAR 3 - SEMESTER 5

CODE	MODULE TITLE	LEVEL	CREDIT VALUE	CORE/ELECTIVE
BDS 601	Artificial Intelligence	6	15	None
BDS 602	Advanced Machine Learning	6	15	BDS 509 Machine Learning
BDS 603	Object Relational and NoSQL Database	6	10	None
BDS 604	Advanced Algorithms	6	10	BDS 502 Algo & Data Structures
BDS 605	Minor Project	6	10	None
	TOTAL SEMESTER 5 CREDITS		60	

YEAR 3 - SEMESTER 6

CODE	MODULE TITLE	LEVEL	CREDIT VALUE	CORE/ELECTIVE
BDS 606	Big Data & Large Scale Computing	6	15	None
BDS 607	Major Project	6	30	None
BDS 608	Ethics & AI	6	15	None
	TOTAL SEMESTER 6 CREDITS		60	