

BDS CURRICULUM & CREDITS

New Unit Code	Updated Units	Credits	EFTSL	Pre-requisites or co-requisites
Semester 1				
BDS MAT 111	Discrete Mathematics	3	0.115384616	NIL
BDS MAT 110	Introduction to Statistics and Probability	3	0.115384616	NIL
BDS CSC 101	Introduction to Computer Programming	3	0.115384616	NIL
BDS DSC 101	Introduction to Database	3	0.115384616	NIL
BDS BUS 101	Foundation Skill - 1 : Personal & Career Foundation	1	0.038461538	NIL
	Total Semester 1 Credits	13		
Semester 2				
BDS MAT 103	Linear Algebra	3	0.115384616	NIL
BDS MAT 104	Calculus	3	0.115384616	NIL
BDS DSC 102	Introduction to Data Science	3	0.115384616	Introduction to Computer Programming
BDS QTT 101	Statistical Data Analysis	3	0.115384616	Introduction to Statistics and Probability
BDS LIB 101	Foundation Skill - 2 Ethics & Moral Reasoning	1	0.038461538	Foundation Skills 1: Personal & Career Foundations
	Total Semester 2 Credits	13		
Semester 3				
BDS MAT 205	Advanced Calculus	3	0.115384616	Calculus
BDS MAT 206	Algorithms and Data Structures	3	0.115384616	Introduction to Computer Programming
BDS DSC 203	Data Integration and Warehousing	3	0.115384616	Introduction to Databases
BDS DSC 205	Operating Systems & Networking	3	0.115384616	
BDS ORG 201	Employability and Practitioner Skills Series 1: Emotional Intelligence	1	0.038461538	Foundation Skills 1 & Foundation Skills 2
	Total Semester 3 Credits	13		
Semester 4				
BDS MAT 208	Advanced Linear Algebra and Applications	3	0.115384616	Linear Algebra
BDS CSC 204	Web Applications Development (Java Track) & Analytics	3	0.115384616	Introduction to Computer Programming
BDS MKT 202	Cloud Computing	3	0.115384616	Operating Systems & Networking
BDS CSC 203	Machine Learning	3	0.115384616	Introduction to Data Science
BDS HRM 201	Employability and Practitioner Skills Series 2: Leadership, Teamwork, Global Dexterity	1	0.038461538	Employability and Practitioner Skills Series 1: Emotional Intelligence
	Total Semester 4 Credits	13		

Semester 5				
BDS QTT 302	Simulation Modelling with Python	3	0.115384616	Introduction to Computer Programming
BDS DSC 310	Deep Learning	3	0.115384616	Machine Learning
BDS DSC 311	NLP, Language Models & Analytics	3	0.115384616	Machine Learning
BDS PRO 301	Data Science Capstone Project I	3	0.115384616	PR: Data Integration, Warehousing; Programming for Analytics and completed any 8 subjects in addition to these specific subjects
BDS COM 302	Employability and Practitioner Skills Series 3: Communicating Effectively	1	0.038461538	Employability and Practitioner Skills Series 2: Leadership, Teamwork, Global Dexterity
	Total Semester 5 Credits	13		
Semester 6				
BDS DSC 312	Computer Vision with Multi-modal models & Analytics	3	0.115384616	Deep Learning
BDS DSC 313	Generative AI and Applications in Data Science	3	0.115384616	Deep Learning
BDS DSC 309	Big Data Processing Techniques and Platforms	3	0.115384616	Machine Learning
BDS PRO 302	BDS Data Science Capstone Project II	3	0.115384616	Data Science Capstone Project I
BDS BUS 303	Employability Skills - 4 (Innovation, Creativity, Agility)	1	0.038461538	Employability and Practitioner Skills Series 3: Communicating Effectively
	Total Semester 6 Credits	13		
Total Course Credits		78		