Maulana Abul Kalam Azad University of Technology, West Bengal (Formerly known as West Bengal University of Technology) Syllabus of B.Sc. in Data Science Effective from academic session 2023-2024 Model curriculum structure for 4-year B.Sc. in Data Science, MAKAUT WB

Sem	Major (Offline)	Minor (Blended Mode)	Inter Disciplinary (Offline)	Ability Enhancement (Offline)	Skill Enhancement (Online /Sessional)	Common Value added Course (SESSIONAL)	TOTAL CREDITS
1	2 sub x 5 credits BDS101 : Basic Mathematics & Statistics (5) BDS102 & 192:Introduction to Computing & Programming with C (3+2)	(1 sub x 3 credits) Principles Of Management	Any one from GE baskets Basket A or D (3 credits)	AECC 101- English and Professional Communication	SEC 181- Life Skills & Personality Development (2 credits)	VAC 181A/B/C- Yoga/ Health & Wellness/ Sports (2 credits)	22
11	2 sub x 5 credits BDS201 & 291: DBMS (3+2) BDS202 & 292: DSA (3+2)	(1 sub x 3 credits) Organization Behaviour/Busin ess Ethics & Corporate Governance	Any one from GE baskets Basket B or E (3 credits)	AECC 201- Modern Indian Languages and Literature (2 credits)	SEC 201- IT Skills (2 credits)	VAC 281A/B/C/D- Critical Thinking / NSS/ Mental Health/ Environmental Studies (2 credits)	22
111	2 sub x 5 credits BDS301: Statistics for Data Sc - 1 (5) BDS302 & 392: AI & ML - 1 (3+2)	(1 sub x 4 credits) Principles of Marketing/Busin ess & Sustainability	Any one from GE baskets Basket C or F(3 credits)	AECC 301- The Constitution, Human Rights and Law (2 credits)	SEC 301- Understanding basics of Cyber Security (2 credits)		21
IV	2 sub x 4 credits BDS401: Statistics for Data Sc - 2 (4) BDS402 & 492: AI & ML - 2 (2+2) 1 sub x 5 credits BDS403 & 493: Python for Data	Human resource management /Corporate Social Responsibility (CSR) (4 credits)		AECC 401A Society Culture and Human Behavior (2 credits)			23

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	Science (3+2)	Sales and distribution management /E-Commerce (4 credits)				
V	2 sub x 5 credits BDS501: Discrete Mathematics (5) BDS502 & 592: NLP (3+2)	Financial management (4 credits) Entrepreneurship		FYBMS 581 Internship (4 credits)		22
VI	2 sub x 5 credits BDS601 & 691: Big Data Analysis (3+2) BDS602 & 692: Time Series Analysis (3+2) 1 sub x 4 credits BDS603 & 693: Data Visualization (2+2)	(4 credits) Customer relationship management (4 credits) Career planning and management/Ma naging Workplace Diversity (4 credits)				22
VII	2 sub x 5 credits BDS701A: RM / BDS701B: PM (5) BDS702 & 792: Deep Learning (3+2)	Consumer behaviour / Exploring Business				22

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	19 sub - 91 credits	11 sub – 42 credits	3 sub – 09 credits	4 sub – 08 credits	3 sub & Int & Proj - 22 credits	2 sub – 4 credits	176
VIII	2 sub x 5 credits BDS801: IOT & Sensor Data Analysis (5) BDS802: Social Network Analysis (5)				FYBDS 881A: Capstone Project FYBDS 881B: Research project (12 credits)		22
	1 sub x 4 credits BDS403: Data Security (4)	Opportunity (4 credits) Strategic management/ Intellectual Property Rights (4 credits)					