

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly West Bengal University of Technology)
Syllabus for M. Sc. In Data Analytics
(Effective for Academic Session 2019-2020)

COURSE STRUCTURE

1ST YEAR

SL No	CODE	Paper	Contact Periods per week			Total Contact Hours	Credits
			L	T	P		
SEMESTER I							
Theory							
1	MDS101	Statistical Methods	3	1		4	4
2	MDS102	Data Base Management System	3	1		4	4
3	MDS103	Programming using Python	3	1		4	4
4	MDS104	Fundamentals of Analytics	3	1		4	4
Practical							
1	MDS191	Analytics Lab I	1	1	2	4	4
2	MDS192	DBMS Lab	1	1	2	4	4
3	MDS193	Python Lab	2		2	4	4
Total Credit			28				
SEMESTER II							
Theory							
1	MDS201	Modeling Techniques	3	1		4	4
2	MDS202	Advanced Programming in Python	3	1		4	4
3	MDS203	Data Warehousing	3	1		4	4
4	MDS204	Data Visualisation using Business Intelligence	3	1		4	4
5	MDS 205	Cloud Computing	3	1		4	4
Practical							
1	MDS291	Advanced Python Lab	1	1	2	4	4
2	MDS292	Analytics Lab II	2		2	4	4
Total Credit			28				

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2ND YEAR

SL No	CODE	Paper	Contact Periods per week			Total Contact Hours	Credits
			L	T	P		
SEMESTER III							
Theory							
1	MDS301	Time Series Analysis and Forecasting	3	1		4	4
2	MDS302	Data Mining	3	1		4	4
3	MDS303	Big Data Technology	3	1		4	4
4	MDS304	Design and Analysis of Algorithm	3	1		4	4
5	MDS305	Machine Learning	3	1		4	4
Practical							
1	MDS391	Data Mining Lab	3	1		4	4
2	MDS392	Big Data Technology and OLTP Lab	1		3	4	4
Total Credit			28				
SEMESTER IV							
Theory							
1	MDSE401A	Elective-I	Internet Of Things	3	1		4
	MDSE401B		Green Computing				
	MDSE401C		Optimization Techniques				
2	MDSE402A	Elective-II	Soft Computing	3	1		4
	MDSE402B		Data Security and Authentication				
	MDSE402C		Game Theory				
Sessional							
1	MDS481	Major Project	3	1		4	4
2	MDS482	Grand Viva	3	1		4	4
Total Credit			16				