



CURRICULUM

for

B.Sc. DATA SCIENCE

Document Prepared in “ Board of Studies” held on

Date: 08/05/2024

Document Approved in “ Academic Council” held on

Date: 19/08/2024



SEMESTER: 1

S.No	COURSE CODE	COURSE CATE-GORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	246EN1A12TM	HS	English	2	2	0	0	2
2.	246MA1A11TO	BS	Linear Algebra and Statistics	4	3	1	0	4
3.	246PH1A11TC	BS	Applied Physics	3	3	0	0	3
4.	244IT1A14TA	PC	Data Visualization using R, Python, Watson	3	3	0	0	3
5.	242EE1A13TB	PC	Digital System Design	3	3	0	0	3
PRACTICAL								
6.	244DS1A19PA	VAC	VAC-1 Google Tools	0	0	0	0	0
7.	244IT1A14PA	PC	Data Visualization using R, Python, Watson Laboratory	4	0	0	4	2
8.	246EN1A12PF	HS	Communication Skills Laboratory	2	0	0	2	1
Total				21	14	1	6	18

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SEMESTER: 2

S.No	COURSE CODE	COURSE CATE-GORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	244IT1A24TA	PC	Introduction to AI*	3	3	0	0	3
2.	244IT1A24TB	PC	Object Oriented Programming and Data Structure*	3	3	0	0	3
3.	244IT1A24TC	PC	Operating System*	3	3	0	0	3
4.	244IT1A24TD	PC	Database Management System*	3	3	0	0	3
5.	244IT1A24TE	PC	Business Intelligence*	3	3	0	0	3
PRACTICAL								
6.	244IT1A29PA	VAC	VAC-2 Deep Learning using Python*	0	0	0	0	0
7.	244IT1A24PB	PC	Object Oriented Programming and Data Structure Laboratory*	2	0	0	2	1
8.	244DS1A24PD	PC	Database Management System Laboratory*	2	0	0	2	1
9.	244IT1A24PE	PC	Business Intelligence Laboratory*	4	0	0	4	2
10.	244IT1A27PA	IP	Internship*	0	0	0	0	2
Total				23	15	0	8	21

* Common Course for Both B.Sc.Robotics & Artificial Intelligence and B.Sc. Data Science

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SEMESTER: 3

S.No	COURSE CODE	COURSE CATE-GORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	244IT1A34TA	PC	Computer Networks*	3	3	0	0	3
2.	244IT1A34TB	PC	Design Thinking /Devops/Agile*	3	3	0	0	3
3.	244DS1A34TC	PC	Data Mining	3	3	0	0	3
4.	244DS1A34TD	PC	Introduction to Data Science	3	3	0	0	3
5.	244DS1A34TE	PC	Cloud Computing	3	3	0	0	3
6.	244DS1A34TF	PC	Web Programming	3	3	0	0	3
PRACTICAL								
7.	244IT1A39PA	VAC	VAC-3 Microsoft Office Tools *	0	0	0	0	0
8.	244IT1A34PB	PC	Design Thinking/ Devops /Agile Laboratory*	4	0	0	4	2
9.	244DS1A34PC	PC	Data Mining Laboratory	4	0	0	4	2
Total				26	18	0	8	22

* Common Course for Both B.Sc.Robotics & Artificial Intelligence and B.Sc. Data Science



SEMESTER: 4

S. No	COURSE CODE	COURSE CATE-GORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	244IT1A44TA	PC	Predictive Modelling*	3	3	0	0	3
2.	244DS1A44TB	PC	Machine Learning	3	3	0	0	3
3.	244DS1A44TC	PC	Big Data Analytics	3	3	0	0	3
4.	244DS1A44TD	PC	Java Programming	3	3	0	0	3
5.	244IT1A44TB	PC	Internet of Things	3	3	0	0	3
PRACTICAL								
6.	244IT1A49PA	VAC	VAC-4 RPA (Robotics Process Automation)*	0	0	0	0	0
7.	244IT1A44PA	PC	Predictive Modelling Laboratory*	4	0	0	4	2
8.	244DS1A44PD	PC	Java Programming Laboratory	4	0	0	4	2
Total				23	15	0	8	19

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SEMESTER: 5

S. No	COURSE CODE	COURSE CATE-GORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	244DS1A54TA	PC	Deep Learning	3	3	0	0	3
2.	244IT1A54TB	PC	Text Analytics*	3	3	0	0	3
3.	244DS1A45TG	PE	Social Network Analytics	3	3	0	0	3
4.	244DS1A54TC	PC	Software Project Management	3	3	0	0	3
PRACTICAL								
5.	244IT1A59PA	VAC	VAC-5 AWS (Amazon Web Services) – Cloud*	0	0	0	0	0
6.	244IT1A54PB	PC	Text Analytics Laboratory*	4	0	0	4	2
7.	244DS1A57PA	IP	Phase I Project	0	0	0	0	7
Total				16	12	0	4	21

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SEMESTER: 6

S.No	COURSE CODE	COURSE CATE-GORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	244IT1A64TA	PC	Spark / Scala Fundamentals*	3	3	0	0	3
2.	244DS1A55TD	PE	Software Testing	3	3	0	0	3
PRACTICAL								
3.	244DS1A67PA	IP	Phase II Project	0	0	0	0	15
Total				6	6	0	0	21

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