



AMET
UNIVERSITY
(Deemed to be University Under Section 3 of UGC Act 1956)



CURRICULUM
for
B.Sc. ROBOTICS AND
ARTIFICIAL INTELLIGENCE

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 CATEGORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	246EN1A12TE	HS	Technical 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.	244DS1A14TA	PC	Data Visualization using R, Python, Watson (IBM)	3	3	0	0	3
5.	242EE1A13TB	PC	Digital System Design	3	3	0	0	3
6.	244DS1A19PA	VAC	VAC: Google Tools	0	0	0	0	0
PRACTICAL								
7.	244DS1A14PA	PC	Data Visualization using R, Python, Watson Laboratory	4	0	0	4	4
8.	246EN1A12PF	HS	Communication Skills Laboratory-I	2	0	0	2	2
Total				21	14	0	6	20

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

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SEMESTER: 2

S. No	COURSE CODE	COURSE CATEGORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
9.	244IT1A24TA	PC	Introduction to AI*	3	3	0	0	3
10.	244IT1A24TB	PC	Object Oriented Programming and Data Structure*	3	3	0	0	3
11.	244IT1A24TC	PC	Operating System*	3	3	0	0	3
12.	244RA1A23TA	ES	Engineering Mechanics	3	3	0	0	3
13.	244IT1A24TD	PC	Database Management System*	3	3	0	0	3
14.	244IT1A24TE	PC	Business Intelligence*	3	3	0	0	3
PRACTICAL								
15.	244IT1A29PA	VAC	VAC-2 Deep Learning using Python*	0	0	0	0	0
16.	244IT1A24PB	PC	Business Intelligence Laboratory*	4	0	0	4	2
17.	244RA1A23PA	ES	Engineering Graphics	4	0	0	4	2
18.	244IT1A27PA	IP	Internship*	0	0	0	0	2
Total				26	18	0	8	24

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SEMESTER: 3

S. No	COURSE CODE	COURSE CATEGORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	244RA1A34TA	PC	Computer Networks	3	3	0	0	3
2.	244RA1A34TB	PC	Algorithms for Intelligent Systems	3	3	0	0	3
3.	244RA1A34TC	PC	Python for Problem Solving	3	3	0	0	3
4.	244RA1A34TD	PC	Basics of Robotics	3	3	0	0	3
5.	244RA1A34TE	PC	Machine Learning	3	3	0	0	3
6.	244RA1A35TD	PE	Professional Elective Course –I (Security of Computing System)	3	3	0	0	3
7.	244RA1A39PA	VAC	VAC: Microsoft Power BI	0	0	0	0	0
PRACTICAL								
8.	244RA1A34PA	PC	Robotics Laboratory	4	0	0	4	2
9.	244RA1A34PB	PC	Python for Problem Solving Laboratory	4	0	0	4	2
Total				26	18	0	8	22

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SEMESTER: 4

S. No	COURSE CODE	COURSE CATEGORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	244RA1A44TA	PC	Introduction to Data Science	3	3	0	0	3
2.	244RA1A44TB	PC	Object Oriented Analysis & Design	3	3	0	0	3
3.	244RA1A44TC	PC	Software Engineering	3	3	0	0	3
4.	244RA1A44TD	PC	Web Programming	3	3	0	0	3
5.	244RA1A44TE	PC	Deep Learning	3	3	0	0	3
6.	244RA1A45TG	PE	Professional Elective Course –II (Manufacturing Technology)	3	3	0	0	3
PRACTICAL								
8.	244RA1A44PA	PC	Data Science Laboratory	2	0	0	2	1
9.	244RA1A44PB	PC	Object Oriented Analysis & Design Laboratory	2	0	0	2	1
Total				26	18	0	4	20

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SEMESTER: 5

S. No	COURSE CODE	COURSE CATEGORY	COURSE TITLE	Contact Hours	L	T	P	C
THEORY								
1.	244RA1A54TA	PC	Cloud Computing	3	3	0	0	3
2.	244RA1A54TB	PC	R Programming	3	3	0	0	3
3.	244RA1A54TC	PC	Software Project Management	3	3	0	0	3
PRACTICAL								
4.	244IT1A59PA	VAC	VAC:AWS (Amazon Web Services) - Cloud	0	0	0	0	0
5.	244RA1A44PB	PC	R Programming Lab	4	0	0	4	2
6.	244RA1A44PC	PC	Mini Project	2	0	0	2	4
Total				15	18	0	8	15

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SEMESTER: 6

S. No	COURSE CODE	COURSE CATE-GORY	COURSE TITLE	Contact Hours	L	T	P	C
PRACTICAL								
1.	244RA1A67PA	IP	Phase II Project	0	0	0	0	10
Total				0	0	0	0	10

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