



POORNIMA UNIVERSITY



School of Computer Science and Engineering

M. Tech. SCHEME

Artificial Intelligence and Data Science

(Batch 2021-23)

POORNIMA UNIVERSITY								
School of Computer Science and Engineering								
Name of Program: M. Tech. Artificial Intelligence and Data Science, Batch: 2021-23								
Teaching Scheme for Year – I, Semester- I								
Course Code	Course Name	Teaching Scheme (Hrs per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorials (T)	Practical (P)	IE	ESE	Total	
A.	University Core Courses							
A.1	Theory							
	-	-	-	-	-	-	-	-
A.2	Practical							
	-	-	-	-	-	-	-	-
B.	Department Core Courses							
B.1	Theory							
MADCAD1101	Artificial Intelligence and Machine Learning	4	-	-	40	60	100	4
MADCAD1102	Advanced Data Structure	4	-	-	40	60	100	4
B.2	Practical							
MADCAD1201	R Programming lab	-	-	2	60	40	100	1
C.	Department Elective: Any Two							
MADEAD1111	Linear Algebra and Optimization	4	-	-	40	60	100	4
MADEAD1112	Parallel and Distributed Computing							
MADEAD1113	Distributed Operating Systems							
MADEAD1121	R Language	4	-	-	40	60	100	4
MADEAD1122	Stochastic Models							
MADEAD1123	Data Mining & Data Warehousing							
MADEAD1124	Embedded Systems							
D.	Open Elective: Anyone							
	Nil	-	-	-	-	-	-	-
E.	Humanities and Social Sciences including Management courses OR Ability Enhancement Compulsory Course (AECC)							
MADCHM1202	Soft Skills-I	-	-	2	60	40	100	1
F.	Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere							
MADCAD1401	Seminar-I	-	-	2	60	40	100	1
G.	Social Outreach, Discipline, TEP, VAC& Extra Curricular Activities							
MADCAD1601	Discipline and Talent Enrichment Programme-I	-	-	2	50	-	50	1
	Total	16		8				20
	Total Teaching Hours	24						

POORNIMA UNIVERSITY								
School of Computer Science and Engineering								
Name of Program: M. Tech. Artificial Intelligence and Data Science, Batch: 2021-23								
Teaching Scheme for Year – I, Semester- II								
Course Code	Course Name	Teaching Scheme (Hrs per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorials (T)	Practical (P)	IE	ESE	Total	
A.	University Core Courses							
A.1	Theory							
	-	-	-	-	-	-	-	-
A.2	Practical							
	-	-	-	-	-	-	-	-
B.	Department Core Courses							
B.1	Theory							
MADCAD2101	Deep Learning & AI	4	-	-	40	60	100	4
MADCAD2102	Natural Language Processing	4	-	-	40	60	100	4
B.2	Practical							
MADCAD2201	Computer Lab-II	-	-	2	60	40	100	1
C.	Department Elective: Any Two							
MADEAD2111	Data Science with Big Data Analytics	4	-	-	40	60	100	4
MADEAD2112	Genetic Algorithm							
MADEAD2113	Data Visualization with R							
MADEAD2121	Cloud Computing	4	-	-	40	60	100	4
MADEAD2122	Grid Computing							
MADEAD2123	High Level System Design & Modeling							
D.	Open Elective: Anyone							
	Nil	-	-	-	-	-	-	-
E.	Humanities and Social Sciences including Management courses OR Ability Enhancement Compulsory Course (AECC)							
MADCHM2202	Soft Skills-II	-	-	2	60	40	100	1
F.	Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere							
MADCAD2401	Seminar-II	-	-	2	60	40	100	1
G.	Social Outreach, Discipline, TEP, VAC& Extra Curricular Activities							
MADCAD2601	Discipline and Talent Enrichment Programme-II	-	-	2	50	-	50	1
	Total	16		8				20
	Total Teaching Hours	24						

POORNIMA UNIVERSITY								
School of Computer Science and Engineering								
Name of Program: M. Tech. Artificial Intelligence and Data Science, Batch: 2021-23								
Teaching Scheme for Year – II, Semester- III								
Course Code	Course Name	Teaching Scheme (Hrs per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorials (T)	Practical (P)	IE	ESE	Total	
A.	University Core Courses							
A.1	Theory							
	-	-	-	-	-	-	-	-
A.2	Practical							
	-	-	-	-	-	-	-	-
B.	Department Core Courses							
B.1	Theory							
MADCAD3101	Python for Data Analysis	4	-	-	40	60	100	4
MADCHM3102	Research Methodology	4	-	-	40	60	100	4
B.2	Practical							
MADCAD3201	Computer Lab-III	-	-	2	60	40	100	1
C.	Department Elective: Any Two							
	Nil							
D.	Open Elective: Anyone							
	As per attached annexure	4	-	-	40	60	100	4
E.	Humanities and Social Sciences including Management courses OR Ability Enhancement Compulsory Course (AECC)							
MADCAD3202	Review/Research Paper	-	-	2	60	40	100	1
F.	Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere							
MADCAD3301	Dissertation Part-I	-	-	6	60	40	100	3
G.	Social Outreach, Discipline, TEP, VAC& Extra Curricular Activities							
MADCAD3601	Discipline and Talent Enrichment Programme-III	-	-	2	50	-	50	1
	Total	12		12				18
	Total Teaching Hours	24						

POORNIMA UNIVERSITY								
School of Computer Science and Engineering								
Name of Program: M. Tech. Artificial Intelligence and Data Science, Batch: 2021-23								
Teaching Scheme for Year – II, Semester- IV								
Course Code	Course Name	Teaching Scheme (Hrs per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorials (T)	Practical (P)	IE	ESE	Total	
A.	University Core Courses							
A.1	Theory							
	-	-	-	-	-	-	-	-
A.2	Practical							
	-	-	-	-	-	-	-	-
B.	Department Core Courses							
B.1	Theory							
	-	-	-	-	-	-	-	-
B.2	Practical							
	-	-	-	-	-	-	-	-
C.	Department Elective: At least Two							
	-	-	-	-	-	-	-	-
D.	Open Elective: Anyone							
	-	-	-	-	-	-	-	-
E.	Humanities and Social Sciences including Management courses OR Ability Enhancement Compulsory Course (AECC)							
	-	-	-	-	-	-	-	-
F.	Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere							
MADCAD4301	Dissertation Part-II	-	-	-	250	250	500	20
G.	Social Outreach, Discipline, TEP, VAC& Extra Curricular Activities							
MADCAD4601	Discipline and Talent Enrichment Programme-IV	-	-	-	50	-	50	1
	Total	-	-	-				21
	Total Teaching Hours							

ANNEXTURE

III SEMESTER OPEN ELECTIVE

<i>Course Code</i>	<i>Course Name</i>
MULEEE3107	E-Commerce and Knowledge Management
MULECV3108	Water and Environmental Pollution
MULEME3109	IPR & Patents
MULEEE3110	Robotics
MULEEE3111	Digital India Implementation
MULECV3112	Smart City Design
MULEEE3113	Renewable Energy