

POORNIMA UNIVERSITY, JAIPUR								
School of Computer Science & Engineering								
Name of Program: MCA (Artificial Intelligence & Data Science)						Batch: 2021-23		
Teaching Scheme for First Year - First Semester								
Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credit
		Lecture (L)	Tutorials (T)	Practical (P)	IE	ESE	Total	
A.	University Core Courses							
	Nil							
B.	Department Core Courses							
B.1	Theory							
MCDCSA1101	Mathematical Foundation of Computers	3	1	-	40	60	100	3.5
MCDCCE1102	Computer Networks & Data Communication	3	1	-	40	60	100	3.5
MCDCCE1103	Web Technologies	3	-	-	40	60	100	3
MCDCCE1104	Core Java Programming	3	-	-	40	60	100	3
MCDCCE1105	Python Programming	3	-	-	40	60	100	3
B.2	Practical							
MCDCCE1206	Web Technologies Lab	-	-	2	60	40	100	1
MCDCCE1207	Core Java Programming Lab	-	-	2	60	40	100	1
MCDCCE1208	Python Programming Lab	-	-	2	60	40	100	1
MCDCCE1209	Object Oriented Programming Lab	-	-	2	60	40	100	1
C.	Department Elective							
MCDECE1111	Computer Graphics & Multimedia	3	-	-	40	60	100	3
MCDECE1112	Data Structures with C							
MCDECE1113	Data Compression Techniques							
D.	Open Elective: Anyone							
	Nil							
E.	Humanities and Social Sciences including Management courses OR Ability Enhancement Compulsory Course (AECC)							
MCDCHM1210	Spoken English & Communication Skills I	-	-	2	60	40	100	1
MCDCHM1211	Personality Development & Emotional Intelligence	-	-	2	60	40	100	1
F.	Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere							
	Nil							
G.	Social Outreach, Discipline, TEP, VAC & Extra Curricular Activities							
MCDCCE1612	Discipline & Talent Enrichment Program (TEP)- I	1	-	-	50	-	50	1
MCDCCE1613	Campus Recruitment Training (CRT)- I	2	-	-				
MCDCCE1614	Non Syllabus Project (NSP)							
MCDCCE1615	Online Certification Courses							
	Total Hours	21	2	12				
	Total Teaching Hours	35						26

POORNIMA UNIVERSITY, JAIPUR								
School of Computer Science & Engineering								
Name of Program: MCA (Artificial Intelligence & Data Science)						Batch: 2021-23		
Teaching Scheme for First Year – Second Semester								
Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credit
		Lecture (L)	Tutorials (T)	Practical (P)	IE	ESE	Total	
A.	University Core Courses							
	Nil							
B.	Department Core Courses							
B.1	Theory							
MCDCCE2101	Data Mining & Data Warehouse	3	1	-	40	60	100	3.5
MCDCCE2102	Advanced Java Programming	3	-	-	40	60	100	3
MCDCCE2103	Design and Analysis of Algorithm	3	1	-	40	60	100	3.5
MCDCCE2104	R Programming for Data Science	3	-	-	40	60	100	3
MCDCCE2105	Data Science and Analytics	3	-	-	40	60	100	3
B.2	Practical							
MCDCCE2206	Data Mining Lab	-	-	2	60	40	100	1
MCDCCE2207	Advanced Java Programming Lab	-	-	2	60	40	100	1
MCDCCE2208	R Programming Lab for Data Science	-	-	2	60	40	100	1
MCDCCE2209	Data Science and Analytics Lab	-	-	2	60	40	100	1
C.	Department Elective							
MCDECE2111	Application Programming for Mobile Devices	3	-	-	40	60	100	3
MCDECE2112	Internet of Things							
MCDECE2113	Computer Cryptography & Network Security							
D.	Open Elective: Anyone							
	Nil							
E.	Humanities and Social Sciences including Management courses OR Ability Enhancement Compulsory Course (AECC)							
MCDCHM2210	Spoken English & Communication Skills II	-	-	2	60	40	100	1
F.	Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere							
	Nil							
G.	Social Outreach, Discipline, TEP, VAC & Extra Curricular Activities							
MCDCCE2611	Discipline & Talent Enrichment Program (TEP)- II	2	-	-	50	-	50	1
MCDCCE2612	Campus Recruitment Training (CRT)- II	3	-	-				
MCDCCE2613	Non Syllabus Project (NSP)							
MCDCCE2614	Online Certification Courses							
	Total Hours	23	2	10				
	Total Teaching Hours	35						25

POORNIMA UNIVERSITY, JAIPUR								
School of Computer Science & Engineering								
Name of Program: MCA (Artificial Intelligence & Data Science)						Batch: 2021-23		
Teaching Scheme for Second Year - Third Semester								
Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credit
		Lecture (L)	Tutorials (T)	Practical (P)	IE	ESE	Total	
A.	University Core Courses							
	Nil							
B.	Department Core Courses							
B.1	Theory							
MCDCCE3101	Artificial Intelligence and Expert System	3	1	-	40	60	100	3.5
MCDCCE3102	Advance Database Management	3	1	-	40	60	100	3.5
MCDCCE3103	Neural Networks	3	-	-	40	60	100	3
MCDCCE3104	Cloud Web Services	3	-	-	40	60	100	3
MCDCCE3105	Soft Computing Techniques	3	-	-	40	60	100	3
B.2	Practical							
MCDCCE3206	AI & ML Lab	-	-	2	60	40	100	1
MCDCCE3207	Advance Database Management Lab	-	-	2	60	40	100	1
MCDCCE3208	Neural Networks Lab	-	-	2	60	40	100	1
MCDCCE3209	Linux Administration Lab	-	-	2	60	40	100	1
C.	Department Elective							
MCDECE3111	Virtualization & Cloud Computing	3	-	-	40	60	100	3
MCDECE3112	Blockchain Technology							
MCDECE3113	Theory of Computation							
D.	Open Elective: Anyone							
	Nil							
E.	Humanities and Social Sciences including Management courses OR Ability Enhancement Compulsory Course (AECC)							
MCDCHM3210	Sales & Negotiation Skills	-	-	2	60	40	100	1
F.	Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere							
MCDCCE3511	Internship Training	-	-	2	60	40	100	1
G.	Social Outreach, Discipline, TEP, VAC & Extra Curricular Activities							
MCDCCE3612	Discipline & Talent Enrichment Program (TEP)- III	1	-	-	50	-	50	1
MCDCCE3613	Campus Recruitment Training (CRT)- III	2	-	-				
MCDCCE3614	Non Syllabus Project (NSP)							
MCDCCE3615	Online Certification Courses							
	Total Hours	21	2	12				
	Total Teaching Hours	35						26

POORNIMA UNIVERSITY, JAIPUR								
School of Computer Science & Engineering								
Name of Program: MCA (Artificial Intelligence & Data Science)						Batch: 2021-23		
Teaching Scheme for Second Year - Fourth Semester								
Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credit
		Lecture (L)	Tutorials (T)	Practical (P)	IE	ESE	Total	
A.	University Core Courses							
	Nil							
B.	Department Core Courses							
B.1	Theory							
MCDCCE4101	Information Security & Cyber Law	3	1	-	40	60	100	3.5
MCDCCE4102	Machine Learning & Deep Learning	3	1	-	40	60	100	3.5
B.2	Practical							
MCDCCE4203	Machine Learning Lab using Python	-	-	2	60	40	100	1
C.	Department Elective							
	Nil							
D.	Open Elective: Anyone							
	Nil							
E.	Humanities and Social Sciences including Management courses OR Ability Enhancement Compulsory Course (AECC)							
MCDCHM4204	Use of Social Media	-	-	2	60	40	100	1
F.	Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere							
MCDCCE4305	Major Project	-	-	21	60	40	100	12
G.	Social Outreach, Discipline, TEP, VAC & Extra Curricular Activities							
MCDCCE4606	Discipline & Talent Enrichment Program (TEP)- IV	1	-	-	50	-	50	1
MCDCCE4607	Campus Recruitment Training (CRT)- IV	1	-	-				
MCDCCE4608	Non Syllabus Project (NSP)							
MCDCCE4609	Online Certification Courses							
	Total Hours	8	2	25				
	Total Teaching Hours		35					22