



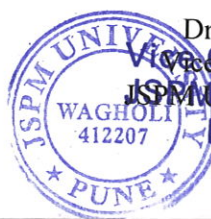
JSPM UNIVERSITY PUNE
Faculty of Science and Technology
School of Basic and Applied Sciences
Course Structure: Master of Science (DS & AI)

Semester – I
Level - 6.5

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme (Hrs. per week)				Examination & Marking Scheme			Credits
				L	T	P	EL	TH	PR	OR	
1	PSMC	230GMAM01_01	Advanced Statistics	2	-	-	-	50	-	-	2
2	PCC	230GCAM01_01	Data Structure and Algorithm	2	1	-	2	100	-	-	3.5
3	PCC	230GCAM02_01	Foundations of Artificial Intelligence	3	-	-	-	100	-	-	3
4	PCC	230GCAM03_01	Data Communication and Computer Networking	3	-	-	-	100	-	-	3
5	SEC	230GCAM15_01	Programming in Java	2	-	2	-	-	50	50	3
6	VSC	230IDCB01_01	Design Thinking and Creativity	1	-	-	2	-	-	50	1.5
7	AEC (HSMC)	230UENM01_01	Communicative English for Professionals	1	-	2	-	50	-	-	2
8	RMC	230IRMM01_01	Research Methodology	2	-	-	-	50	-	-	2
9	LC	230GCAM17_01	Data Structure and Algorithm Lab	-	-	2	-	-	50	-	1
10	LC	230GCAM18_01	Foundations of Artificial Intelligence Lab	-	-	2	-	-	50	50	1
Total Academic Engagement and Credits				16	1	8	4	450	150	150	22
				25				750			

Mr. Ikram Ali
Program Coordinator
MCA/MSc

Dr. R.S.Deshpande
Dean
FST



Dr. B.B.Ahuja
Vice-Chancellor
JSPM University
Pune



JSPM UNIVERSITY PUNE
Faculty of Science and Technology
School of Basic and Applied Sciences
Course Structure: Master of Science (DS & AI)

Semester – II
Level – 6.5

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme (Hrs. per week)				Examination & Marking Scheme			Credits
				L	T	P	EL	TH	PR	OR	
1	PCC	230GCAM04_02	Advanced Database Management Systems	2	1	-	-	100	-	-	3
2	PCC	230GCAM05_02	Foundations of Machine Learning	2	-	-	2	100	-	-	2.5
3	PCC	230GCAM06_02	Software Engineering and Testing Quality Assurance	3	-	-	-	100	-	-	3
4	MMC	230GMAM04_2	Mathematical Foundations of Computer Science	2	-	-	-	100	-	-	2
5	SEC	230GCAM16_02	Data Science with Python	2	-	2	-	-	50	50	3
6	VSC	230IINB02_02	Innovation	1	-	-	2	-	-	50	1.5
7	AEC (HSMC)	230UENM02_02	Business Communication	1	-	2	-	50	-	-	2
8	RMC	230IRMM03_02	Research Data Analysis	2	-	-	-	50	-	-	2
9	LC	230GCAM19_02	Advanced Database Management Systems Lab	-	-	2	-	-	50	-	1
10	IITP/FP/ CEP	230GDSM07_02	Internship/Field Project/Community Engagement Program	4 to 6 weeks				-	-	50	2
Total Academic Engagement and Credits				15	1	6	4	500	100	150	22
				22			4	750			

Note: A Postgraduate Diploma will be awarded if a student exits after first year. For Exit at the end of first year the student must complete: (Total credits = 8)

a) An internship / OJT of 8 - 10 weeks (4 credits)

b) Additional Course 1 (4 credits) (Vocational Skill Course (VSC) / Skill Enhancement Course (SEC)) .

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