



**JSPM UNIVERSITY PUNE**  
**Faculty of Science and Technology**  
**School of Basic and Applied Sciences**  
**Course Structure: Master of Computer Application (MCA)**

**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
<b>Total Academic Engagement and Credits</b>				<b>16</b>	<b>1</b>	<b>8</b>		<b>450</b>	<b>150</b>	<b>150</b>	<b>22</b>
				<b>25</b>		<b>4</b>	<b>750</b>				

Mr. Ikram Ali  
 Program Coordinator  
 MCA/MSc

Dr. R.S. Deshpande  
 Dean  
 FST



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



**JSPM UNIVERSITY PUNE**  
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**Course Structure: Master of Computer Application (MCA)**

**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 System Lab	-	-	2	-	-	50	-	1
10	IITP/FP/CEP	230GCAM21_02	Internship/Field Project/Community Engagement Programme	4 to 6 weeks				-	-	50	2
<b>Total Academic Engagement and Credits</b>				15	1	6	4	500	100	150	22
				22				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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