

**Savitribai Phule Pune University, Pune**  
**Faculty of Commerce and Management**  
**Master of Computer Applications (MCA)**

<b>Semester I</b>					
Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Java Programming	IT11	3	50	25
2	Data Structure and Algorithms	IT12	3	50	25
3	Object Oriented Software Engineering	IT13	3	50	25
4	Operating System Concepts	IT14	3	50	25
5	Network Technologies	IT15	3	50	25
6	Open Course 1	OC11	1		25
7	Open Course 2	OC12	1		25
<b>* Practicals</b>					
8	Practical	IT11L	5	50	75
9	Mini Project	ITC11	5	50	75
<b>Soft Skills</b>					
10	Soft Skills - I	SS11	1		25
			<b>28</b>	<b>350</b>	<b>350</b>
<b>Semester II</b>					
Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Python Programming	IT21	3	50	25
2	Software Project Management	IT22	3	50	25
3	Optimization Techniques	MT21	3	50	25
4	Advanced Internet Technologies	IT23	3	50	25
5	Advanced DBMS	IT24	3	50	25
6	Open Course 3	OC21	1		25
7	Open Course 4	OC22	1		25
<b>* Practicals</b>					
8	Practical	IT21L	5	50	75
9	Mini Project	ITC21	5	50	75
<b>Soft Skills</b>					
10	Soft Skills - II	SS21	1		25
			<b>28</b>	<b>350</b>	<b>350</b>

Semester III					
Sr. No.	Course Title	Course Code	CP	EXT	INT
1	Mobile Application Development	IT31	3	50	25
2	Data Warehousing and Data Mining	IT32	3	50	25
3	Software Testing and Quality Assurance	IT33	3	50	25
4	Knowledge Representation & Artificial Intelligence - ML, DL	IT34	3	50	25
5	Cloud Computing	IT35	3	50	25
6	Open Course 5	OC31	1		25
7	Open Course 6	OC32	1		25
<b>* Practicals</b>					
8	Practical	IT31L	5	50	75
9	Mini Project	ITC31	5	50	75
<b>Soft Skills</b>					
10	Soft Skills- III	SS31	1		25
			<b>28</b>	<b>350</b>	<b>350</b>

Semester IV					
Sr. No.	Course Title	Course Code	CP	EXT	INT
1	DevOps	IT41	3	50	25
2	PPM and OB	BM41	3	50	25
2	Project	ITC41	22	250	300
			<b>28</b>	<b>350</b>	<b>350</b>

Semester	Credit	IE	UE
Semester I	28	350	350
Semester II	28	350	350
Semester III	28	350	350
Semester IV	28	350	350
<b>Total</b>	<b>112</b>	<b>1400</b>	<b>1400</b>
			<b>2800</b>