



# Sandip University

Trimbak Road, A/p - Mahiravani, Tal. & Dist. – Nashik, Pin – 422 213

Website : <http://www.sandipuniversity.edu.in> Email : [info@sandipuniversity.edu.in](mailto:info@sandipuniversity.edu.in)

Ph: (02594) 222 541 Fax: (02594) 222 555

## School of Computer Sciences and Applications

### Course Structure for Post-Graduate Programme of Master of Computer Application (MCA)

#### Semester - III

Sr. No	Core	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1	PC	PCA301	No Sql Databases	3	--	--	3	3	3	50	50	--	100
2	PC	PCA302	Advanced Java	3	--	--	3	3	3	50	50	--	100
3	PE	PCA303I	Soft Computing	3	--	--	3	3	3	50	50	--	100
		PCA303II	Data Science										
4	PE	PCA304I	Software Project Management	3	--	--	3	3	3	50	50	--	100
		PCA304II	Software Engineering										
5	UC	PCA305	Research Methodology and IPR	3	--	--	3	3	3	50	50	--	100
6	UC	PCA306	English for Research Paper Writing	2	--	--	2	--	--	--	--	--	GR
7	PC	PCA311	Lab Course based on No Sql Databases	--	--	4	4	2	3	50	--	50	100
8	PC	PCA312	Lab Course based on Advanced Java	--	--	4	4	2	3	50	--	50	100
<b>Total</b>				<b>16</b>		<b>8</b>	<b>24</b>	<b>19</b>		<b>350</b>	<b>250</b>	<b>100</b>	<b>700</b>

CIA: Continuous Internal Assessment	TH: Theory Exam.
L: Theory Lecture	*: Oral Examination
T: Tutorial	UC: University Core
P: Practical	PC: Programme Core
	PE: Programme Elective

#### Details of Continuous Internal Assessment (CIA)

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2 A&B	20%	Mid-Term Exam (MTE)
CIA 3	10%	Presentation by students
CIA 4	10%	Research Based Activity
TOTAL	50%	

Document Ref.	Rev. No./ Date	Issue No./ Date	Prepared by	Approved by
SUN/SOCSA/ /_____/_____/2017-18				



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## School of Computer Sciences and Applications

### Course Structure for Post-Graduate Programme of Master of Computer Application (MCA)

#### Semester - IV

Sr. No	Core	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1	PC	PCA401	Distributed Operating System	3	--	--	3	3	3	50	50	--	100
2	PC	PCA402	Web Technology	3	--	--	3	3	3	50	50	--	100
3	PE	PCA403I	Internet of Things	3	--	--	3	3	3	50	50	--	100
		PCA403II	Green Computing										
4	PE	PCA404I	Big Data Analytics	3	--	--	3	3	3	50	50	--	100
		PCA404II	Pervasive Computing										
5	UC	PCA405	Value Education	2	--	--	2	--	--	--	--	--	GR
6	PC	PCA411	Lab Course based on Distributed Operating System	--	--	4	4	2	3	50	--	50	100
7	PC	PCA412	Lab Course based on Web Technology	--	--	4	4	2	3	50	--	50	100
8	PC	PCA413	Mini Project with Seminar	--	--	4	4	2	3	50	--	50	100
<b>Total</b>				<b>14</b>		<b>12</b>	<b>26</b>	<b>18</b>		<b>350</b>	<b>200</b>	<b>150</b>	<b>700</b>

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#### Details of Continuous Internal Assessment (CIA)

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2 A&B	20%	Mid-Term Exam (MTE)
CIA 3	10%	Presentation by students
CIA 4	10%	Research Based Activity
TOTAL	50%	

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## School of **Computer Sciences and Applications** Course Structure for **Post-Graduate Programme of Master of Computer Application (MCA)** **Semester - V**

Sr. No	Core	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1	UC	PCA501	Introduction to Management Function	3	--	--	3	3	3	50	50	--	100
2	PC	PCA502	Open Source Technologies	3	--	--	3	3	3	50	50	--	100
3	PE	PCA503I	Programming for Cloud Computing using AWS	3	--	--	3	3	3	50	50	--	100
		PCA503II	Android Programming										
4	PE	PCA504I	Machine Learning	3	--	--	3	3	3	50	50	--	100
		PCA504II	Data Storage Technologies & Network										
5	OE	PCA505I	Operation Research	3	--	--	3	3	3	50	50	--	100
		PCA505II	Business Analytics										
6	UC	PCA506	Personality Development and Communication Skills	2	--	--	2	--	--	--	--	--	GR
7	PC	PCA511	Lab Course based on Open Source Technologies	--	--	4	4	2	3	50	--	50	100
8	PE	PCA512	Lab Course based on Electives	--	--	4	4	2	3	50	--	50	100
<b>Total</b>				<b>17</b>		<b>8</b>	<b>25</b>	<b>19</b>		<b>350</b>	<b>250</b>	<b>100</b>	<b>700</b>

CIA: Continuous Internal Assessment L: Theory Lecture T: Tutorial P: Practical	TH: Theory Exam. #: Internship for 15 days. *: Oral Examination UC: University Core PC: Programme Core PE: Programme Elective OE: Open Elective
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Details of Continuous Internal Assessment (CIA)

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2 A&B	20%	Mid-Term Exam (MTE)
CIA 3	10%	Presentation by students
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<b>TOTAL</b>	<b>50%</b>	

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## School of **Computer Sciences and Applications**

### Course Structure for **Post-Graduate** Programme of **Master of Computer Application (MCA)**

#### Semester - **VI**

Sr. No	Core	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1	PC	PCA611	In Plant Project Work and Seminar	--	--	32	32	16	3	200	--	200	400
<b>Total</b>				--	--	<b>32</b>	<b>32</b>	<b>16</b>	--	<b>200</b>	--	<b>200</b>	<b>400</b>

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