

**FACULTY OF COMPUTER APPLICATIONS**  
**A.M. PATEL INSTITUTE OF COMPUTER STUDIES**  
**MASTER OF COMPUTER APPLICATIONS (M.C.A.)**

**Syllabus Details**

**Effective Year 2016-2017**

**Program** : M.C.A.  
**Total Course** : 6  
**Total Elective Course** : 2  
**Total Audit Course** : 0

**Semester** : IV  
**Total Regular Course** : 4  
**Total Open Course** : 0

#	CourseCode	Course Title	Teaching Scheme				Examination Scheme				
			CREDIT			TOTAL HOURS	TH		PR		TOTAL
			TH	PR/TW	TOTAL		Internal	External	Internal	External	
1	P14A1OST	OPEN SOURCE TECHNOLOGY	3.00	2.00	5.00	7.00	0/40	0/60	0/20	0/30	150
2	P14A2GUI2	GUI PROGRAMMING – II	3.00	2.00	5.00	7.00	0/40	0/60	0/20	0/30	150
3	P14A3JP2	JAVA PROGRAMMING – II	3.00	2.00	5.00	7.00	0/40	0/60	0/20	0/30	150
4	P14A4DWM	DATA WAREHOUSING AND DATA MINING	3.00	0.00	3.00	3.00	0/40	0/60	-	-	100
5		ELECTIVE SUBJECT - 1 (ELECTIVE-IV_16)	3.00	0.00	3.00	3.00	0/40	0/60	-	-	100
6		ELECTIVE SUBJECT - 1 (ELECTIVE-V_16)	3.00	0.00	3.00	3.00	0/40	0/60	-	-	100
			<b>18.00</b>	<b>6.00</b>	<b>24.00</b>	<b>30.00</b>					<b>750</b>

**List of Elective Subjects**

Group Name	Course Code	Name of Course
ELECTIVE-IV_16	P14A5SOA	SERVICE ORIENTED ARCHITECTURE
	P14A5DES	DATA ENCRYPTION AND DATA SECURITY
	P14A5SP	SYSTEM PROGRAMMING
ELECTIVE-V_16	P14B6GIS	GEOGRAPHICAL INFORMATION SYSTEM AND GLOBAL POSITIONING SYSTEM
	P14B6ERP	ENTERPRISE RESOURCE PLANNING AND MANAGEMENT

**Examination Grade Range & Value**

Marks/Perc. Range	Grade (Regular)	Grade Point (Regular)	Grade (Remedial)	Grade Point (Remedial)
90>=	A+	10	A	9
80 To 89	A	9	B+	8
70 To 79	B+	8	B	7
60 To 69	B	7	C+	6
50 To 59	C+	6	C	5
40 To 49	C	5	C	5
<40	F	0	F	0