GUJARAT TECHNOLOGICAL UNIVERSITY
Regular MCA
Subjects and Teaching Scheme (W.E.F. Jan, 2017)

SEMESTER IV

Subject Code	Subject Name	Teaching Scheme			Credits	Theory		Practical / VIVA		Total Marks	
		Theory	Tutorial	Practical		University Exam (ESE)	Mid-Term Exam (PA)	Mid-Term Practical / Viva (PA)	External Practical / Viva (ESE)	Theory	Practical / VIVA
3640001	Basic Statistics	3	-	4	7	70	30	20	30	100	50
3640002	Basic Computer Science-3(Computer Networking)	3	-	3	6	70	30	20	30	100	50
3640003	Basic Computer Science-4(Software Engineering)	4	1	-	5	70	30	-	-	100	-
*******	Elective-3	3	-	3	6	70	30	20	30	100	50
*******	Elective-4	3	-	3	6	70	30	20	30	100	50
	Total	16	1	13	30	350	150	80	120	500	200

Elective – III	
3640004	Network Security
3640005	Data Analytics with R
3640006	Data Mining
3640008	Image Processing
3640009	Operations Research (OR)

Elective – IV	
3640011	Cyber Security & Forensics (CSF)
3640012	Language Processing (LP)
3640013	Function Programming with Java
3640014	Advanced Python
3640015	Android Programming