

# GUJARAT TECHNOLOGICAL UNIVERSITY

## Master of Computer Application

### Proposed Subjects and Teaching Scheme

#### Semester I

SUBJECT CODE	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS	EXTERNAL EXAMINATION (MARKS)		MID SEM. TEST MARKS	INTERNAL ASSESSMENT MARKS	TOTAL MARKS
		THEORY	TUTORIAL	PRACTICAL		THEORY	PRACTICAL			
610001	Fundamentals of Programming (FOP)	4	-	-	4	70	-	20	10	100
610002	Programming Skills – I (FOP)	-	-	4	4	-	80		20	100
610003	Discrete Mathematics for Computer Science	4	1	-	5	70	-	20	10	100
610004	Fundamentals of Computer Organization	4	-	-	4	70	-	20	10	100
610005	Database Management Systems – I	4	-	-	4	70	-	20	10	100
610006	Software Lab (SQL & PL/SQL)	-	-	4	4	-	80		20	100
610007	Enterprise Resources & Financial Management	4	-	-	4	70	-	20	10	100
	<b>TOTAL</b>	<b>20</b>	<b>1</b>	<b>8</b>	<b>29</b>	<b>350</b>	<b>160</b>	<b>100</b>	<b>90</b>	<b>700</b>

#### Semester II

SUBJECT CODE	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS	EXTERNAL EXAMINATION (MARKS)		MID SEM. TEST MARKS	INTERNAL ASSESSMENT MARKS	TOTAL MARKS
		THEORY	TUTORIAL	PRACTICAL		THEORY	PRACTICAL			
620001	Data Structures (DS)	4	-	-	4	70	-	20	10	100
620002	Programming Skills – II (DS)	-	-	4	4	-	80	0	20	100
620003	Object Oriented Concepts & Programming (OOC)	4	-	-	4	70	-	20	10	100
620004	Programming Skills – III (OOC)	-	-	4	4	-	80	0	20	100
620005	Computer Oriented Numerical Methods	4	1	-	5	70	-	20	10	100
620006	Database Management Systems – II	4	1	-	5	70	-	20	10	100
620007	Theory of Computation	4	1	-	5	70	-	20	10	100
	<b>TOTAL</b>	<b>20</b>	<b>3</b>	<b>8</b>	<b>31</b>	<b>350</b>	<b>160</b>	<b>100</b>	<b>90</b>	<b>700</b>