LIST OF COURSES TO BE OFFERED IN THE FIRST YEAR, SECOND YEAR, THIRD YEAR INTEGRATED M.Sc. (CA&IT) (*)

M.Sc. (CA&IT) - SEMESTER SYSTEM STRUCTURE

SEMESTER - I

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS C EC-111	ELECTIVE	FROM THE LIST BELOW	2
KS_C_FC-112	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-113	CORE	FUNDAMENTALS OF PROGRAMMING	3
KS_C_CC-114	CORE	FUNDAMENTALS OF COMPUTER ORGANIZATION	3
KS_C_CC-115	CORE	MATHEMATICAL CONCEPTS	3
KS_C_CC-116	CORE	COMMUNICATION SKILLS	3
KS_C_CC-117	CORE	DATABASE MANAGEMENT SYSTEMS CONCEPTS	3
KS_C_CC-118	CORE	IMPLEMENTATION OF C (PRACTICAL ON CC-113)	3
KS_C_CC-119	CORE	IMPLEMENTATION OF OFFICE APPLICATIONS(PRACTICAL)	3
		TOTAL CREDITS	25
 ELECTIVE COURSE LEARNING FROM WORLD LEADERS HEALTH EDUCATION MUSIC FUNDAMENTALS OF MANAGEMENT 		FOUNDATION COURSE ORAL AND WRITTEN COMMUNICATION INDIAN CULTURE AND CIVILIZATION ELEMENTARY NUMBER THEORY FINANCIAL ACCOUNTING AND MANAGI	

SEMESTER - II

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS_C_EC-121	ELECTIVE	FROM THE LIST BELOW	2
KS_C_FC-122	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-123	CORE	MATRIX ALGEBRA AND GRAPH THEORY	3
KS_C_CC-124	CORE	DATABASE MANAGEMENT SYSTEMS USING SQL /PLSQL	3
KS_C_CC-125	CORE	COMMERCIAL COMMUNICATION	3
KS_C_CC-126	CORE	ADVANCE C PROGRAMMING	3
KS_C_CC-127	CORE	IMPLEMENTATION OF SQL/PLSQL (PRACTICAL ON CC-124)	3
KS_C_CC-128	CORE	IMPLEMENTATION OF C PROGRAM- MING (PRACTICAL ON CC-126)	3
KS_C_CC-129	CORE	MULTIMEDIA (PRACTICAL)	3
		TOTAL CREDITS	25
ENVIRONMENT	RSE NT AL STUDIES	FOUNDATION COURSEGEOGRAPHYTAXATION LAWSPERSONALITY DEVELOPMENT	

SEMESTER - III

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS_C_EC-231	ELECTIVE	FROM THE LIST BELOW	2
KS_C_FC-232	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-233	CORE	COMPUTER ORIENTED STATISTICAL METHODS	3
KS_C_CC-234	CORE	CONCEPTS OF OPERATING SYSTEM	3
KS_C_CC-235	CORE	OBJECT ORIENTED PROGRAMMING WITH C++	3
KS_C_CC-236	CORE	DATA STRUCTURES	3
KS_C_CC-237	CORE	DISCRETE MATHEMATICS	3
KS_C_CC-238	CORE	IMPLEMENTATION OF C++ (PRACTICAL ON CC-235)	3
KS_C_CC-239	CORE	IMPLEMENTATION OF DATA STRUCTURE (PRACTICAL ON CC-236)	3
		TOTAL CREDITS	25
ELECTIVE COURSEFUNDAMENTALS OF ECONOMICSDISASTER MANAGEMENT		SOFT SKILL DEVELOPMENT ADVANCED NUMBER THEORY(*)	

Offered to only those students who take Elementary Number Theory in SEM-I.

SEMESTER - IV

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS C EC-241	ELECTIVE	FROM THE LIST BELOW	2
KS C FC-242	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-243	CORE	COMPUTER ORIENTED NUMERICAL METHODS	3
KS_C_CC-244	CORE	OPEN SOURCE TECHNOLOGY	3
KS_C_CC-245	CORE	SYSTEM ANALYSIS , DESIGN AND MODELING	3
KS_C_CC-246	CORE	CLIENT SERVER ARCHITECTURE	3
KS_C_CC-247	CORE	IMPLEMENTATION OF OPEN SOURCE TECHNOLOGY (PRACTICAL ON CC- 244)	3
KS_C_CC-248	CORE	WEB TECHNOLOGY (PRACTICAL) javascript / vb script/xml	3
KS_C_CC-249	CORE	IMPLEMENTATION OF CLIENT SERVER ARCHITECTURE (PRACTICAL ON CC-246)	3
		TOTAL CREDITS	25
 ELECTIVE COU HERITAGE AI OF GUJARAT INTRODUCTI HUMANITIES 	ND CULTURE ON TO	BUSINESS COMMUNICATION THEORY OF COMPUTING	

SEMESTER - V

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS_C_SE-351	SUBJECT ELECTIVE	FROM THE LIST BELOW	3
KS_C_FC-352	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-353	CORE	SOFTWARE ENGINEERING	3
KS_C_CC-354	CORE	COMPUTER GRAPHICS	3
KS_C_CC-355	CORE	CORE JAVA	3
KS_C_CC-356	CORE	IMPLEMENTATION OF COMPUTER GRAPHICS (PRACTICAL ON KS_C_FC-354)	3
KS_C_CC-357	CORE	IMPLEMENTATION OF CORE JAVA(PRACTICAL ON KS_C_CC-355)	3
KS_C_CC-358	CORE	SOFTWARE PROJECT DEVELOPMENT-I	5
		TOTAL CREDITS	25
SUBJECT ELECTIVE COURSE		FOUNDATION COURSE	
CYBER LAW AND INTELLECTUAL PROPERTY		TECHNICAL COMMUNICATIONREPORT WRITING	

SEMESTER - VI

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS_C_SE-361	SUBJECT ELECTIVE	FROM THE LIST BELOW	3
KS_C_FC-362	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-363	CORE	DATA COMMUNICATION AND NETWORKING	3
KS_C_CC-364	CORE	SYSTEM SOFTWARE	3
KS_C_CC-365	CORE	E-COMMERCE AND E-GOVERNANCE	3
KS_C_CC-366	CORE	IMPLEMENTATION OF DATA COMMUNICATION AND NETWORKING (PRACTICAL ON CC-363)	3
KS_C_CC-367	CORE	IMPLEMENTATION OF SYSTEM SOFTWARE (PRACTICAL ON CC -364)	3
KS_C_CC-368	CORE	SOFTWARE DEVELOPMENT	5
		TOTAL CREDITS	25
SUBJECT ELEC	CTIVE COURSE	FOUNDATION COURSE	
ADVANCED JAVA		RESEARCH METHODOLOGY	
ADVANCED W TECHNOLOGYASP.NET			

LIST OF COURSES TO BE OFFERED IN THE FOURTH YEAR, FIFTH YEAR INTEGRATED M.Sc. (CA&IT) (*)

SEMESTER - VII

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS_C_SE-471	SUBJECT ELECTIVE	FROM THE LIST BELOW	3
KS_C_FC-472	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-473	CORE	OPERATIONS RESEARCH	3
KS_C_CC-474	CORE	ARTIFICIAL INTELLIGENCE	3
KS_C_CC-475	CORE	ADVANCED NETWORKING	3
KS_C_CC-476	CORE	SOFTWARE PROJECT MANAGEMENT & TESTING	3
KS_C_CC-477	CORE	ENTERPRISE RESOURCE PLANNING	3
KS_C_CC-478	CORE	PROJECT DEVELOPMENT ON KS_C_CC-474	5
		TOTAL CREDITS	25
SUBJECT ELECTIVE COURSE ADVANCED DATABASE SYSTEMS PARALLEL PROCESSING EMBEDDED SYSTEMS		FOUNDATION COURSE CORPORATE COMMUNICATION & BUSIN ENGLISH ENTERPREUNERSHIP SKILLS	ESS

SEMESTER - VIII

COURSE NO.	COURSE	Course / Subject	CREDITS
	TYPE		
KS_C_SE-481	SUBJECT	FROM THE LIST BELOW	3
	ELECTIVE		
KS_C_FC-482	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-483	CORE	QUANTITATIVE TECHNIQUES	3
KS_C_CC-484	CORE	MOBILE COMPUTING	3
KS_C_CC-485	CORE	SOFT COMPUTING	3
KS_C_CC-486	CORE	MANAGEMENT INFORMATION SYSTEM	3
KS_C_CC-487	CORE	DATA WAREHOUSING & DATA MINING	3
KS_C_CC-488	CORE	DISSERTATION	5
		TOTAL CREDITS	25
SUBJECT ELECTIVE COURSE		FOUNDATION COURSE	
INFORMATION SECURITY		MASS COMMUNICATION	
CLOUD COMPUTING		YOGA & MEDITATION	
COMPILER CO	NSTRUCTION		

SEMESTER - IX

<u>CEMILOTER IX</u>			
COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS_C_SE-591	SUBJECT	FROM THE LIST BELOW	3
	ELECTIVE		
KS_C_FC-592	FOUNDATION	FROM THE LIST BELOW	2
KS_C_CC-593	CORE	GEOGRAPHICAL INFORMATION	3
		SYSTEM	
KS_C_CC-594	CORE	CRYPTOGRAPHY	3
KS_C_CC-595	CORE	INTERNET APPLICATIONS	3
KS_C_CC-596	CORE	DISTRIBUTED OPERATING SYSTEM	3
KS_C_CC-597	CORE	DATA COMPRESSION	3
KS_C_CC-598	CORE	PRACTICAL	5
		TOTAL CREDITS	25

SUBJECT ELECTIVE COURSE	FOUNDATION COURSE
IMAGE PROCESSING	NETWORK ADMINISTRATION
NETWORK SECURITY	GREEN COMPUTING
BIOINFORMATICS	

SEMESTER - X

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS
KS_C_SE- 5101	CORE	GRAND PROJECT (6 MONTHS)	25