

**GUJARAT UNIVERSITY  
K. S. SCHOOL OF BUSINESS MANAGEMENT**

**MASTER OF SCIENCE  
COMPUTER APPLICATION & INFORMATION TECHNOLOGY  
(M.Sc. (CA&IT))  
[FIVE YEARS' FULL TIME INTEGRATED DEGREE COURSE]**

**Syllabus of EVEN Semester (II/IV/VI/VIII/X)**

## Effective from Academic Year 2019-20 Onwards M.sc. (CA&IT) – EVEN SEMESTER SUBJECT LIST

### SEMESTER – II

COURSE NO.	COURSE TYPE	Course / Subject	CREDIT	Page No
KS_C_EC-121	ELECTIVE	ENVIRONMENTAL STUDIES	2	1
KS_C_FC-122	FOUNDATION	TAXATION LAWS	2	3
KS_C_CC-123	CORE	MATRIX ALGEBRA AND GRAPH THEORY	3	5
KS_C_CC-124	CORE	DATABASE MANAGEMENT SYSTEMS USING SQL /PLSQL	3	7
KS_C_CC-125	CORE	COMMERCIAL COMMUNICATION	3	9
KS_C_CC-126	CORE	ADVANCE C PROGRAMMING	3	11
KS_C_CC-127	CORE	IMPLEMENTATION OF SQL/PLSQL (PRACTICAL ON CC-124)	3	13
KS_C_CC-128	CORE	IMPLEMENTATION OF C PROGRAMMING (PRACTICAL ON CC-126)	3	16
KS_C_CC-129	CORE	WEB TECHNOLOGY - I (PRACTICAL)	3	18
<b>TOTAL CREDITS</b>			<b>25</b>	

### SEMESTER – IV

COURSE NO.	COURSE TYPE	Course / Subject	CREDITS	Page No
KS_C_EC-241	ELECTIVE	INTRODUCTION TO HUMANITIES	2	20
KS_C_FC-242	FOUNDATION	BUSINESS COMMUNICATION	2	22
KS_C_CC-243	CORE	COMPUTER ORIENTED NUMERICAL METHODS	3	24
KS_C_CC-244	CORE	OPEN SOURCE TECHNOLOGY	3	26
KS_C_CC-245	CORE	SYSTEM ANALYSIS , DESIGN AND MODELING	3	28
KS_C_CC-246	CORE	CLIENT SERVER ARCHITECTURE	3	31
KS_C_CC-247	CORE	IMPLEMENTATION OF OPEN SOURCE TECHNOLOGY (PRACTICAL ON CC- 244)	3	33
KS_C_CC-248	CORE	WEB TECHNOLOGY – II (PRACTICAL)	3	35
KS_C_CC-249	CORE	IMPLEMENTATION OF CLIENT SERVER ARCHITECTURE (PRACTICAL ON CC-246)	3	37
<b>TOTAL CREDITS</b>			<b>25</b>	

### SEMESTER – VI

COURSE NO.	COURSE TYPE	Course / Subject	CREDIT	Page No
KS_C_EC-361	ELECTIVE	A.JAVA/PHP/ASP.NET	3	38-41
KS_C_FC-362	FOUNDATION	RESEARCH METHODOLOGY	2	42
KS_C_CC-363	CORE	DATA COMMUNICATION AND NETWORKING	3	44
KS_C_CC-364	CORE	SYSTEM SOFTWARE	3	46
KS_C_CC-365	CORE	E-COMMERCE AND E-GOVERNANCE	3	48
KS_C_CC-366	CORE	IMPLEMENTATION OF DATA COMMUNICATION AND NETWORKING (PRACTICAL ON CC-363)	3	51
KS_C_CC-367	CORE	IMPLEMENTATION OF SYSTEM SOFTWARE (PRACTICAL ON CC -364 )	3	53
KS_C_CC-368	CORE	SOFTWARE DEVELOPMENT - 2	5	55
<b>TOTAL CREDITS</b>			<b>25</b>	

**SEMESTER – VIII**

<b>COURSE NO.</b>	<b>COURSE TYPE</b>	<b>Course / Subject</b>	<b>CREDITS</b>	<b>Page No</b>
KS_C_SE-481	ELECTIVE	INFORMATION SECURITY	3	57
KS_C_FC-482	FOUNDATION	DIGITAL MARKETING	2	59
KS_C_CC-483	CORE	QUANTITATIVE TECHNIQUES	3	61
KS_C_CC-484	CORE	MOBILE COMPUTING	3	63
KS_C_CC-485	CORE	DATA MINING AND DATA ANALYTICS (THEORY)	3	65
KS_C_CC-486	CORE	DESIGN AND ANALYSIS OF ALGORITHM	3	67
KS_C_CC-487	CORE	DATA MINING AND DATA ANALYTICS (PRACTICAL)	3	69
KS_C_CC-488	CORE	PROJECT - EMERGING TECHNOLOGIES	5	70-74
		<b>TOTAL CREDITS</b>	<b>25</b>	

**SEMESTER – X**

<b>COURSE NO.</b>	<b>COURSE TYPE</b>	<b>Course / Subject</b>	<b>CREDITS</b>	<b>Page No</b>
KS_C_SE-5101	CORE	GRAND PROJECT (6 MONTHS)	25	75-78