<u>Master of Science (Computer Applications & Information Technology)</u> (Five Years Full Time Integrated Master Degree) Computer Department, Hem. North Gujarat University, Patan-384265, Gujarat State

F.Y.M.SC. (CA & IT)

Semester-I

101	Communication Skills	
102	Mathematics - I	
103	Introduction to Programming Language	
104	Introduction to PC Packages & Operating System	
105	Internet & Web - I	
Semester-II		
201	Mathematics - II	
202	Financial Accounting & Management	

- 203 Object Oriented Programming
- 204 Hardware Configuration & Solutions
- 205 Introduction to Web Designing

S.Y.M.SC. (CA & IT)

<u>Semester - III</u>

301	Numerical Methods
302	System Analysis and Design
303	Introduction To Algorithms
304	Client Server Architecture & Interface
305	Database Management System

Semester - IV

- 401 Statistical Methods
- 402 Digital Electronics
- 403 Object Oriented Programming with JAVA
- 404 Operating System & UNIX
- 405 Advance Database Architecture

T.Y.M.SC. (CA & IT)

- 301 Data Communication & Networking
- 302 Computer Graphics
- 303 Web Designing & E-Commerce
- 304 Visual Application Development (VC++)
- 305 Advance Programming With Java
- 306 Advance Database Architecture
- 307 Computer Based Optimization Models
- 308 System Development Project (Mini project)

Forth M.SC. (CA & IT)

Semester-VII

701	Software Engineering
702	Management Information System
703	Advanced Operating System
704	Advanced Web Technology - I
705	Advanced Java Technology

Semester-VIII

801	Advanced Networking
802	Personality Development & Aptitude test
803	Pervasive Computing
804	Computer Security
805	Health & Yoga

Fifth M.SC. (CA & IT)

Semester - IX

901	Object Oriented analysis & Design With UML
902	Artificial Intelligence
903	Advanced Web Technology - II
904	Elective - I
905	Elective - II

Elective Subject

EL-1 Geographic Information System EL-2 Digital Image Processing EL-3 Bio-Informatics EL-4 Enterprise Resource Planning EL-5 Project Management Practices and Evaluation EL-6 Web Development using PHP EL-7 Embedded Systems EL-8 Data warehousing & Data Mining