HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

MCA SEMESTER – II MCA-25 : System Analysis and Design

Teaching Scheme (Per Week)		Examination Scheme					
		Internal		External		Total	
Th. (HOURS)	Pr. (HOURS)	Th. (MARKS)	Pr. (MARKS)	Th. (MARKS)	Pr. (MARKS)	Th. (MARKS)	Pr. (MARKS)
4	--	30	--	70	--	100	--

UNIT I (25%)

System definition, Need for system development, Types of system, Types of user, System development strategies - SDLC, Structured Analysis Development Strategy (Physical and Logical DFD, Data Dictionary), System Prototype Method Role of system analyst, System investigation: - Fact Finding Techniques Tools for Documenting Procedures & Decision - Decision Tree, Decision Table, Structured English

UNIT II (25%)

Code design, Form design, Input design, Output design, Computer Aided system tools

UNIT III (25%)

System Engineering and Quality Assurance - Design of software, Software design and documentation tools (Structure Flowchart, HIPO, Warnier /Orr Diagrams), Testing, Documentation Managing System Implementation (Training, Conversion)

UNIT IV (25%)

Case Studies :

Financial Accounting System, Payroll System, Library System, Inventory / Stock System, Billing System (Input, Output, DFD, UML- Use Case View Diagram)

Books:

1. Analysis & Design of Information Systems - James A. Senn
2. System Analysis & Design, 1st Edition, - S.Parthasarthy & B.W.Khalkar
3. Introduction To S.A.D. - LEE VOL. 1 & 2

Question Paper Scheme: Section – I Section – II

Q.1 - Objective Type Unit I & II (11) Marks Q.4 - Objective Type Unit III & IV (11) Marks

Q.2 - Unit-I OR Q.2 Unit-I (12) Marks Q.5 - Unit-III OR Q.5 Unit-III (12) Marks

Q.3 - Unit-II OR Q.3 Unit-II (12) Marks Q.6 - Unit-IV OR Q.6 Unit-IV (12) Marks