

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

B.C.A. Semester – IV

BCA-403 : System Analysis and Design

Teaching Scheme (Per week)		Teaching Scheme (Per semester)		Examination Scheme					
				INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Total Hours	Credit	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
4	--	40	4	30	--	70	--	100	--

Unit - I

[18 Marks]

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

[17 Marks]

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

Unit - III

[18 Marks]

System Engineering and Quality Assurance: Design of software, Software design and documentation tools: Structure Flowchart, HIPO, Warier /Orr Diagrams. Testing, Documentation, **Managing System Implementation**

Unit - IV

[17 Marks]

Case Studies
Financial Accounting System,
Payroll System,
Library System,
Inventory / Stock System,
Billing System,
Online Banking System,
Railway Reservation System,
(Input, Output, DFD)

Text Book:

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:

University Examination Duration: 3 Hours.

Q.1 - Unit-I (18 Marks)

- A. Objective/ Short Questions.
- B. Descriptive/ Long questions.

Q.2 - Unit-II (17 Marks)

- A. Objective/ Short Questions.
- B. Descriptive/ Long questions.

Q.3 - Unit-III (18 Marks)

- A. Objective/ Short Questions.
- B. Descriptive/ Long questions.

Q.4 - Unit-IV (17 Marks)

- A. Objective/ Short Questions.
- B. Descriptive/ Long questions.

Note: All Objective/ Short Questions are compulsory, no option will be given.

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