

HAMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

S. Y. B. C. A.

BCA -204 System Analysis and Design

Teaching Scheme (per week)		Examination Scheme					
Th. (hours)	Pr. (hours)	Internal		External		Total	
		Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
3	-	30	-	70	-	100	-

UNIT-I**(17 Marks)**

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

UNIT-II**(18 Marks)**

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

UNIT-III**(17 Marks)**

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

UNIT-IV**(18 Marks)**

- Case Studies
 - o Financial Accounting System o Payroll System
 - o Library System o Inventory / Stock System o Billing System (Input, Output, DFD)

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Books:

- System Analysis & Design, 1st Edition, - S.Parthasarthy & B.W.Khalkar
- Introduction To S.A.D. - LEE VOL. 1 & 2

Question Paper Scheme: University Examination Duration : 3 Hours.

- Q.1 - Unit-I (17 Marks)
- A. Objective/ Short Questions.
 - B. Descriptive/ Long questions.
- Q.2 - Unit-II (18 Marks)
- A. Objective/ Short Questions.
 - B. Descriptive/ Long questions
- Q.3 - Unit-III (17 Marks)
- A. Objective/ Short Questions.
 - B. Descriptive/ Long questions
- Q.4 - Unit-IV (18 Marks)
- Case study