B.COM. PART - II
SCHEME OF EXAMINATION

Subject	Max. Marks		Min. Marks
i) Environmental Studies	75	100	33
Field Work	25		
A. FOUNDATION COURSE			
i) Hindi Language - I		75	25
ii) English Language - II		75	25
B. THREE COMPULSORY GROUPS :			
GROUP - I			
Accounting :			
i) Corporate Accounting	75	150	50
ii) Cost Accounting	75		
GROUP - II			
Business Management :			
i) Principles of Business Mangement	75	150	50
ii) Company Law	75		
GROUP - III			
Applied Economics :			
i) Business Statisitics	75	150	50
ii) Fundamentals of Entrepreneuship	75		
Computer Application :			
i) Internet Application & E Commerce	50	100	33
ii) Relational Database Management System	50		
iii) Proctical and Viva voce	50		17
Tax Procedure and Practice :			
i) Stastical Analysis	50	100	33
ii) Direct Taxes : Procedure & Practice	50		
iii) Proctical and Viva voce (25 + 25)	50		17
Computer Application :			
i) Database Management Systems	50	100	33
ii) Structured programming	50		
iii) Proctical and Viva voce	50		17

बी.ए./बी.एस–सी./बी.कॉम./बी.एच.एस.–सी.

भाग – दो, आधार पाठ्यक्रम
प्रश्न पत्र – प्रथम (हिन्दी भाषा) (पेपर कोड – 0171)

पूर्णांक– 75

खण्ड – क निम्नलिखित 5 लेखकों के पाठ शामिल होंगे – अंक–35

1. महात्मा गांधी	–	चोरी और प्रायश्चित
2. आचार्य नरेंद्र देव	–	युवकों का समाज में स्थान
3. वासुदेव शरण अग्रवाल	–	मातृभूमि
4. हरि ठाकुर	–	डॉ. खूबचंद बघेल
5. पं. माधवराव सप्रे	–	सम्भाषण–कुशलता

खण्ड–ख हिन्दी भाषा और उसके विविध रूप अंक–16

1. कार्यालयीन भाषा
2. मीडिया की भाषा
3. वित्त एवं वाणिज्य की भाषा
4. मशीनी भाषा

खण्ड–ग हिन्दी की व्याकरणिक कोटियाँ अंक–24

संज्ञा, सर्वनाम, विशेषण, किया विशेषण,

समास, संधि एवं संक्षिप्तियां

अनुवाद व्यवहार : अंग्रेजी से हिन्दी में अनुवाद

इकाई विभाजन–

इकाई– 1 चोरी और प्रायश्चित : महात्मा गांधी / कार्यालयीन भाषा, मीडिया की भाषा

इकाई– 2 युवकों का समाज में स्थान : आचार्य नरेन्द्र देव / वित एवं वाणिज्य की भाषा, मशीनी भाषा

इकाई– 3 मातृभूमिः वासुदेवशरण अग्रवाल / संज्ञा सर्वनाम, विशेषण, किया विशेषण

इकाई– 4 डॉ. खूबचंद बघेल : हरि ठाकुर / समास, संधि,

इकाई– 5 सम्भाषण–कुशलता : पं. माधवराव सप्रे, / अनुवाद – अंग्रेजी से हिन्दी में अनुवाद, संक्षिप्तियाँ

मूल्यांकन योजना –

प्रत्येक इकाई से एक–एक प्रश्न पूछे जाएंगे। प्रत्येक प्रश्न में आंतरिक विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे । प्रत्येक इकाई को दो–दो खण्डों (क्रमश' 'क' और 'ख' में) विभक्त करते हुए निर्धारित पाठ से 8 एवं शेष पाठ्य सामग्री से 7 अंक के प्रश्न होंगे। इस प्रकार पूरे प्रश्न–पत्र के पूर्णांक 75 होंगे।

ENGLISH LANGUAGE

B.A. / B.Sc. / B.COM. / B.H.Sc. - II

The question paper for B.A./B.Sc./B.Com./B.H.Sc., English Language and cultural valuers shall comprise the following units :

UNIT-I	Short answer questions to be assed by (Five short answer questions of three marks each)	15 Marks
UNIT-II	(a) Reading comprehension of an unseen passage	05 Marks
	(b) Vocabulary	
UNIT-III	Report-Writing	10 Marks
UNIT-IV	Expansion of an idea	10 Marks
UNIT-V	Grammar and Vocabulary based on the prescribed text book.	20+15 Marks

Note : Question on all the units shall asked from the prescribed text which will comprise specimens of popular creative/writing and the following it any

(a) Matter & technology

    (i) State of matter and its structure

    (ii) Technology (Electronics Communication, Space Science)

(b) Our Scientists & Institutions

    (i) Life & work of our eminent scientist Arya Bhatt. Kaurd Charak Shusruta, Nagarjuna, J.C. Bose and C.V. Raman, S. Rmanujam, Homi J. Babha Birbal Sahani.

    (iii) Indian Scientific Institutions (Ancient & Modern)

Books Prescribed :

Foundation English for U.G. Second Yaer - Published by M.P. Hindi Granth Academy, Bhopal:

SYLLABUS
B.COM. PART-II

GROUPING OF SUBJECTS AND SCHEME OF EXAMINATION

Subject		Max.	Min.
A.	**Foundation Course**		
I.	Hindi Language	75	26
II.	English Language	75	26
B.	**Three Compulsory Groups**		
Group-I			
I.	Corporate Accounting	75 }	
II.	Company Law	75 } 150	50
Group-II			
I.	Cost Accounting	75 }	
II.	Principles of Bus. Management	75 } 150	50
Group-III			
I.	Business Statistics	75 }	
II.	Fundamental of Entrepreneurship	75 } 150	50

B.Com.II year

C O M P U L S O R Y

Group – I PAPER – I (CORPORATE ACCOUNTING)

OBJECTIVE

This course enable the students to develop awareness about corporate accounting in conformity with the provisions of companies Act.

(As per company act 2013)

Current Syllabus	Proposed Syllabus	Remark
UNIT-I Issue, Forfeiture, and Re-issue of Shares : Redemption of preference shares; Issue and redemption of debentures.	**UNIT-I** Issue, Forfeiture, and Re-issue of Shares : Redemption of preference shares; Issue and redemption of debentures.	
UNIT-II Final Accounts; Excluding computation of managerial remuneration, and disposal of profit, Liquidation of Company.	**UNIT-II** Final Accounts (as per company act 2013) Liquidation of Company.	Ommission of managerial remuneration, and disposal of profit
UNIT-III Valuation of Goodwill and Shares.	**UNIT-III** Valuation of Goodwill and Shares.	
UNIT-IV Accounting for Amalgamation of Companies as per Indian Accounting Standard 14; Accounting for internal reconstruction – excluding intercompany holdings and re-construction schemes.	**UNIT-IV** Accounting for Amalgamation of Companies as per Indian Accounting Standard 14; Accounting for internal reconstruction – excluding intercompany holdings and re-construction schemes.	
UNIT-V Consolidated Balance Sheet of holding companies with one subsidiary only. Final Account of Banking Companies.	**UNIT-V** Consolidated Balance Sheet of holding companies with one subsidiary only.	Ommission Final Account of Banking Companies.

SUGGESTED READINGS :

1. Dr. S.M. Shukla, Sahitya Bhawan Agra.
2. Dr. Mangal Mehta & Agrawal Published – Indore.
3. Dr. Karim Khanuja – Published – Agra.
4. Gupta R.L., Radhaswamy M; Company Accounts; Sultan Chand & Sons, New Delhi.

Group – II PAPER – I (COST ACCOUNT)

OBJECTIVE

This course exposes the students to the basic concepts and the tools used in cost accounting.

Current Syllabus	Proposed Syllabus	Remark
UNIT-I Introduction : Nature and scope of cost accounting : Cost concepts and classification; Methods and techniques; Installation of costing system; Concept of cost audit. Accounting for Material : Material Control; Concept and techniques; Pricing of material issues; Treatment of material losses.	**UNIT-I** Introduction : Nature and scope of cost accounting : Cost concepts and classification; Methods and techniques; Installation of costing system; Concept of cost audit. Accounting for Material : Material Control; Concept and techniques; Pricing of material issues; Treatment of material losses.	
UNIT-II Accounting for Labour : Labour cost control procedure; Labour turnover; Idle time and overtime; Methods of wage payment – time and piece rates; Incentive schemes. Accounting for overheads; Classification and departmentalization; Absorption of overheads; Determination of overhead rates; Under and over absorption, and its treatment.	**UNIT-II** Accounting for Labour : Labour cost control procedure; Labour turnover; Idle time and overtime; Methods of wage payment – time and piece rates; Incentive schemes. Accounting for overheads; Classification and departmentalization; Absorption of overheads; Determination of overhead rates; Under and over absorption, and its treatment.	
UNIT-III Cost Ascertainment : Unit costing; Job, batch and contract costing.	**UNIT-III** Cost Ascertainment : Unit costing; Job, batch and contract costing.	
UNIT-IV Operating costing; Process Costing – excluding inter – process profits, and joint and by – products.	**UNIT-IV** Operating costing; Process Costing – excluding inter – process profits, and joint and by – products.	
UNIT-V Cost Records : Intergal and non – integral system; Reconciliation of cost and financial accounts; Break Even Point.	**UNIT-V** Cost Records : Intergal and non – integral system; Reconciliation of cost and financial accounts; Break Even Point.	

SUGGESTED READINGS :

1. M.L. Agrawal : Sahitya Bhawan Agra.
2. Maheshwari S.N. : Advanced Problems and Solutions in Cost Accounting; Sultan Chand, New Delhi.
3. Arora M.N. : Cost Accounting – Principles and Practice; Vikas, New Delhi.
4. Jain S.P. and Narang K.L. : Cost Accounting; Kalyani New Delhi.

Group – II – PAPER – II
PRINCIPLES OF BUSINESS MANAGEMENT

OBJECTIVE

This Course familiarizes the students with the basics of principles of management.

Current Syllabus	Proposed Syllabus	Remark
UNIT-I Introduction : Concept, nature, process, and significance of management; manage-ment roles (Mintzberg); An overview of functional areas of management; Development management thought; Classical and neo-classical systems; Concept approaches.	UNIT-I Introduction : Concept, nature, process, and significance of management; manage-ment roles (Mintzberg); An overview of functional areas of management; Development management thought; Classical and neo-classical systems; Concept approaches.	
UNIT-II Planning : Concept, process and types. Decision making – concept and Bounded rationality; Management by objectives; Corporate planning; Environment analysis and diagnosis; Strategy formulation.	UNIT-II Planning : Concept, process and types. Decision making – concept and Bounded rationality; Management by objectives; Corporate planning; Environment analysis and diagnosis; Strategy formulation.	
UNIT-III Organizing : Concept, nature, process and significance; Authority and resident relationships; Centralization and decentralization; Departmentation; Organization structure – forms and contingency factors.	UNIT-III Organizing : Concept, nature, process and significance; Authority and resident relationships; Centralization and decentralization; Departmentation; Organization structure – forms and contingency factors.	
UNIT-IV Motivating and Leading People at work : Motivation – concept; Theories Herzberg, McGregor, and Ouchi; Financial and non-financial incentives. Leadership – concept and leadrship styles; Leadership theories (Tannenb Schmidt.); Likert's System Management; Communication – nature, process, networks, and barriers, Effective Communication.	UNIT-IV Motivating and Leading People at work : Motivation – concept; Theories Herzberg, McGregor, and Ouchi; Financial and non-financial incentives. Leadership – concept and leadrship styles; Leadership theories (Tannenb Schmidt.); Likert's System Management; Communication – nature, process, networks, and barriers, Effective Communication.	
UNIT-V Managerial Control : Concept and process; Effective control system; Technical control – traditional and modern. Management of Change : Concept, nature, and process of planned Resistance to change; Emerging horizons of management in a environment.	UNIT-V Managerial Control : Concept and process; Effective control system; Technical control – traditional and modern. Management of Change : Concept, nature, and process of planned Resistance to change; Emerging horizons of management in a environment.	

SUGGESTED READINGS :

1. Dr. R.C. Agrawal, Agra.
2. Dr. S.C. Saxena, Agra.
3. Weihrich and Koontz, et al : Essentials of Management; Tata McGraw Hill, New Delhi.

Group – I – PAPER – II

COMPANY LAW

OBJECTIVE

This objective of this course is to provide basic knowledge of the provisions Companies Act. 2013, along with relevant case law.

Current Syllabus	Proposed Syllabus	Remark
UNIT-I Corporate personalities; Kinds of Companies, Nature & Scope, promotion on and incorporation of companies.	**UNIT-I** Corporate personalities; Kinds of Companies, Nature & Scope, promotion on and incorporation of companies.	
UNIT-II Memorandum of Association; Articles of Association; Prospectus, Shares; share capital – transfer and transmission.	**UNIT-II** Memorandum of Association; Articles of Association; Prospectus, Shares; share capital – transfer and transmission.	
UNIT-III Capital management – borrowing powers, mortgages and charges, debentures. Directors – Managing Director, whole time director, Appointment, Remuneration, and duties.	**UNIT-III** Capital management – borrowing powers, mortgages and charges, debentures. Directors – Managing Director, whole time director, Appointment, Remuneration, and duties.	
UNIT-IV Company meetings – kinds, Notice, quorum, voting, proxy, resolutions, minutes.	**UNIT-IV** Company meetings – kinds, Notice, quorum, voting, proxy, resolutions, minutes.	
UNIT-V majority powers and minority rights; Prevention of oppression and mismanagement. Winding up – kinds and conduct.	**UNIT-V** majority powers and minority rights; Prevention of oppression and mismanagement. Winding up – kinds and conduct.	

SUGGESTED READINGS :

1. Singh Avtar : Company Law; Eastern Book Co., Lucknow.
2. Dr. S.M. Shukla, Shahitya Bhawan Agra.
3. Dr. R.C. Agrawal, Shahitya Bhawan Agra.
4. Kapoor N.D. : Company Law – Incorporating the Provisions of the comanies Amendment Act, 2013 Chand & Sons, New Delhi.

Group – III – PAPER – I

BUSINESS STATISTICS

OBJECTIVE

It enable the students to gain understanding of statistical techniques as are applicable to business.

Current Syllabus	Proposed Syllabus	Remark
UNIT-I Introduction : Statistics as a subject; Descriptive Statistics – compared to Inferential Statistics; Types of data; Summation operation; Rules of Sigma E operations, Analysis of University Data; Construction of a frequency distribution; Concept of central tendency.	UNIT-I Introduction : Statistics as a subject; Descriptive Statistics – compared to Inferential Statistics; Types of data; Summation operation; Rules of Sigma E operations, Analysis of University Data; Construction of a frequency distribution; Concept of central tendency.	
UNIT-II Dispersion – and their measures; Partition values; Moments; Skewness and measures; Kurtosis and measures.	UNIT-II Dispersion – and their measures; Partition values; Skewness and measures.	Omission of movements & Kurtosis
UNIT-III Analysis of Bivariate Data : Linear regression two variables and correlation.	UNIT-III Analysis of Bivariate Data : Linear regression two variables and correlation.	
UNIT-IV Index Number; Meaning, types, and uses; Methods of Constructing price and quantity indices (simple and aggregate); Tests of adequacy; Chain – base index numbers; Base shifting, splicing and deflating; Problems in constructing index numbers; Consumer price index. Analysis of Time Series : Cause of Variation in time series data; Components of a time series; Decomposition – Additive and Multiplicative models; Determination of trend – Moving Averages Method and method of least squares (including linear, second degree, parabolic, and exponential trend); Computation of seasonal indices by simple averages, ratio – to – trend, ratio – to – moving average, and link relative methods.	UNIT-IV Index Number; Meaning, types, and uses; Methods of Constructing price and quantity indices (simple and aggregate); Tests of adequacy; Chain – base index numbers; Base shifting, splicing and deflating; Problems in constructing index numbers; Consumer price index. Analysis of Time Series : Cause of Variation in time series data; Components of a time series; Decomposition – Additive and Multiplicative models; Determination of trend – Moving Averages Method and method of least squares (including linear, second degree, parabolic, and exponential trend); Computation of seasonal indices by simple averages, ratio – to – trend, ratio – to – moving average, and link relative methods.	
UNIT-V Forecasting and Methods : Forcasting – concept, types and importance; General approach to forecasting; Methods of forecasting; demand; Industry Vs Company sales forecast; Factors affecting company sales. Theory of Probability : Factors as a concept; The three approaches to defining probability; Addition and multiplication laws of probability; Conditional Probability; Bayes' Theorem; Expectation and Variance of a random variable.	UNIT-V Forecasting and Methods : Forecasting – concept, types and importance; General approach to forecasting; Methods of forecasting; demand; Industry Vs Company sales forecasting; Factors affecting company sales. Theory of Probability : Factors as a concept; The three approaches to defining probability; Addition and multiplication laws of probability; Conditional Probability; Bayes' Theorem; Expectation and Variance of a random variable.	

SUGGESTED READINGS :

1. S.M.Shukla, Shahitya Bhawan,Agara.
2. Statistical Analysis, Dr. Rajesh Shukla and J.B. Agrawal

Group – III PAPER – II

FUNDAMENTALS OF ENTREPRENEURSHIP

OBJECTIVE

It Provides exposure to the students to the entrepreneurial culture and industrial growth so as to preparing them to set up and manage their own small units.

Current Syllabus	Proposed Syllabus	Remark
UNIT-I Introduction : The entrepreneur; Definition; Emergence of entrepreneurial class; Theories of entrepreneurship; Role of socio - economic environment; Characteri-stics.	**UNIT-I** Introduction : The entrepreneur; Definition; Emergence of entrepreneurial class; Theories of entrepreneurship; Role of socio - economic environment; Characteri-stics.	
UNIT-II Promotion of a Venture; Opportunities analysis; External environmental analysis economic, social and technological; Competitive factors; Legal requirements for establishment of a new unit, and raising of funds; Venture capital sources and documentation required.	**UNIT-II** Promotion of a Venture; Opportunities analysis; External environmental analysis economic, social and technological; Competitive factors; Legal requirements for establishment of a new unit, and raising of funds; Venture capital sources and documentation required.	
UNIT-III Entrepreneurial Behavior : Innovation and entrepreneur; Entrepreneurial behavior and Psycho - Theories, Social responsibility.	**UNIT-III** Entrepreneurial Behavior : Innovation and entrepreneur; Entrepreneurial behavior and Psycho - Theories, Social responsibility.	
UNIT-IV Entrepreneurial Development Programs (EDP) : EDP, their role, relevance, and achievements; Role of Government in organizing EDPs; Critical evaluation.	**UNIT-IV** Entrepreneurial Development Programs (EDP) : EDP, their role, relevance, and achievements; Role of Government in organizing EDPs; Critical evaluation.	
UNIT-V Role of Entrepreneur : Role of an entrepreneur in economic growth as an innovator, generation of employment opportunities, complementing and supplementing economic growth, bringing about social stability and balanced regional development of industries; Role in export promotion and import substitution, forex earnings, and augmenting and meeting local demand.	**UNIT-V** Role of Entrepreneur : Role of an entrepreneur in economic growth as an innovator, generation of employment opportunities, complementing and supplementing economic growth, bringing about social stability and balanced regional development of industries; Role in export promotion and import substitution, forex earnings, and augmenting and meeting local demand.	

SUGGESTED READINGS :

3. Srivastava S.B. : A Practical Guide to industrial Entrepreneurs; Sultan Chand and Sons, New Delhi.

4. Tandon B.C. : Environment and Entrepreneur; Chugh Publications, Allahabad.

5. Prasanna Chandra : Project Preparation, Appraisal, Implementation; Tata McGrow Hill, New Delhi.

COMPUTER APPLICATION
MARKS DISTRIBUTION PAPER – I
INTERNET APPLICATION & E-COMMERCE

Current Syllabus	Proposed Syllabus	Remark
UNIT – I Introduction to HTML	**UNIT – I Introduction to HTML**	
Introduction to Internet & World Wide Web	**Introduction to Internet & World Wide Web**	
Internet– Indian and the Internet, Profile of Indian Surfer, History of the Internet, Indian Internet History, Technological Foundation of Internet, Application in Internet Environment, Movement of files/data between two computers, TCP/IP, IP Addresses, Domain Name System, Domain Name Services, allocation of second level domains in India, Internet & India.	**Internet**– Indian and the Internet, Profile of Indian Surfer, History of the Internet, Indian Internet History, Technological Foundation of Internet, Application in Internet Environment, Movement of files/data between two computers, TCP/IP, IP Addresses, Domain Name System, Domain Name Services, allocation of second level domains in India, Internet & India.	
World Wide Web (WWW) – WWW consortium browsing and Information retrieval, exploring the WWW, address : URL.	**World Wide Web (WWW)** – WWW consortium browsing and Information retrieval, exploring the WWW, address : URL.	
UNIT – II	**UNIT – II**	
Introduction to HTML & Designing Web Page	**Introduction to HTML & Designing Web Page**	
Concept to Website, Web standards, What is HTML, HTML documents / file, HTML Editor, Explanation of the structure of Homepage, Elements in HTML Documents, HTML Elements, HTML Tags & Basic HTML Tags, viewing the source of web page & downloading the web page source, Extensible HTML, CSS, XML, XSL.	Concept to Website, Web standards, What is HTML, HTML documents / file, HTML Editor, Explanation of the structure of Homepage, Elements in HTML Documents, HTML Elements, HTML Tags & Basic HTML Tags, viewing the source of web page & downloading the web page source, Extensible HTML, CSS, XML, XSL.	
HTML Document Structure – Head Section	**HTML Document Structure – Head Section**	
Illustration of Document Structure, Mark-up elements within the Head : BASE, ISINDEX, LINK, META, TITLE, SCRIPT.	Illustration of Document Structure, Mark-up elements within the Head : BASE, ISINDEX, LINK, META, TITLE, SCRIPT.	
UNIT – III	**UNIT – III**	
HTML Document Structure & HTML Forms	**HTML Document Structure & HTML Forms**	
Body Section – Illustration, Body elements,	**Body Section** – Illustration, Body	

UNIT - IV

Introduction to E-Commerce & Business Strategy in Electronic Age

E-Commerce – Scope & definition of language, E-commerce & Trade cycle, E-markets, E-Data Interchange, Internet Commerce, E-commerce in Perspective.

Business Strategy – The value chain, competitive advantage, business strategy, Case-Study : e-commerce in Passenger Air Transport.

UNIT - V

B to B e-Commerce & B to C e-Commerce

Business to Business e-Commerce – Inter-organisational Transactions, Electronic markets, Electronic Data Interchange (EDI) – the nuts and bolts, EDI and business, Inter roganizational e-Commerce.

Business to Consumer e-Commerce – Consumer trade transactions.

The elements of e-Commerce – elements, e-visibility, e-shop online payments, delivering the goods, after sales service, Internet e-Commerce Security A web site evaluation model.

e-Business – Introduction, Internet Bookshops, Software Supplies & support, e-newspapers, internet banking, virtual auctions, online share dealing, gambling on net, e-diversity.

Current Syllabus	Proposed Syllabus	Remark
UNIT - I	**UNIT - I**	
DATABASE SYSTEM CONCEPT & ENTITY RELATIONSHIP MODEL :	**DATABASE SYSTEM CONCEPT & ENTITY RELATIONSHIP MODEL :**	
Operational data, why database, data independence, an Architecture for a Data base system, DDL & DML, Data Dictionary, Data Structures and Corresponding Operators, Data Models, The Relational approach, The Network approach, DBMS storage structure and access method. Entity-Relationship model as a tool for conceptual design-entities attributes and relationaships. ER diagrams; strong and weak entities Generatization; Specialization and aggregation. Converting and ER-model into relational.	Operational data, why database, data independence, an Architecture for a Data base system, DDL & DML, Data Dictionary, Data Structures and Corresponding Operators, Data Models, The Relational approach, The Network approach, DBMS storage structure and access method. Entity-Relationship model as a tool for conceptual design-entities attributes and relationaships. ER diagrams; strong and weak entities Generatization; Specialization and aggregation. Converting and ER-model into relational.	
UNIT - II	**UNIT - II**	
Relational Database Management System	**Relational Database Management System**	
Relational Model : Structure to Relational Database, The Domain Relational, Calculus, Extended Relational- Algebra Operation, Modification of database, Views. **Relational Database Design :-** Pitfalls in Relational Database Design, Decomposition, Functional Dependencies, Normalization : INF, 2NF, BCNF, 3NF, 4NF, 5NF operations not involving cursors, Operations involving cursors, dynamic statements, security & intergrity security specification in SQL.	**Relational Model :** Structure to Relational Database, Relational Algebra, The Domain Relational, Calculus, Extended Relational- Algebra Operation, Modification of database, Views. **Relational Database Design :-** Pitfalls in Relational Database Design, Decomposition, Functional Dependencies, Normalization : INF, 2NF, BCNF, 3NF, 4NF, 5NF operations not involving cursors, Operations involving cursors, dynamic statements, security & intergrity security specification in SQL.	

UNIT – III

RELATIONAL DATABAWSE DESIGN :

Relational Algebra, Traditional Set Operations, Attributes Names for Derived Relations, special relational operations, further normalization, functional dependence. First, second and third normal forms, BCNF Forms, relations with more than one candidate key, Good and bad decompositions, fourth normal form, fifth normal form, De-normalization.

UNIT – IV

Introduction to RDBMS Software – Oracle

(a) **Introduction :** Introduction to personnel and Enterprises Oracle, Data Types, Commercial Query Language, SQL, SQL * PLUS.

(b) **DDL and DML :** Creating Table, Specify Integrity Constraint, Modifying Existing Table, Dropping Table, Inserting, and Updating Rows in as Table, Where Clause, Operators, ORDER BY, GROUP Function, SQL Function, JOIN, Set Operation, SQL Sub Queries. Views : What is Views, Create, Drop and Retrieving data from views.

UNIT – V

(a) **Security :** Management of Roles, Changing Password, Granting Roles & Privilege, with drawing privileges.

(b) **PL/SQL :** Block Structure in PL/SQL, Variable and constants, Running PL/SQL in the SQL*PLUS, Data base Access with PL/SQL, Exception Handling, Record Data type in PL/S!L, Triggers in PL/SQL.