



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Commerce

Choice Based Credit System (CBCS) in Light of NEP-2020 B.Com. - III SEMESTER (2024-2027)

BCOM301 ELEMENTARY STATISTICS

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BCOM301	MAJ/MIN	Elementary Statistics	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; MAJ/MIN- Major/Minor Course

*Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objective

1. To acquaint the students with basic mathematical tools used in management.
2. To Guide students about the importance and utility of Statistics in Business.

Examination Scheme

The internal assessment of the students' performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of five questions. Each question will carry 12 Marks and consist of four questions, out of which student will be required to attempt either question number (a) and (b) or question number (c) and (d).

Each question i.e. (a), (b), (c) and (d) will be of 6 marks.

Course Outcomes

- CO1** Acquire knowledge of introductory statistics, its scope, and its importance in various areas such as Commerce, Management, Social Sciences, etc.
- CO2** Get knowledge of various types of data, their organization, and evaluation of summary measures such as measures of central tendency and dispersion, etc.
- CO3** Perceive the knowledge of correlation, regression analysis, regression diagnostics, and partial and multiple correlations.
- CO4** Learn different types of data reflecting independence and association between two or more attributes.
- CO5** To develop decision-making skills pertinent to the practice of statistics, including the students' abilities to formulate problems, think creatively, and synthesize information.

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B.Com. - III SEMESTER (2024-2027)

BCOM301 ELEMENTARY STATISTICS

COURSE CONTENT

Unit I: Definition of Statistics; Importance and scope of Statistics in business decisions; Limitations, Collection, Classification, and Presentation of Statistical Data – Primary and Secondary data; Methods of data collection; Tabulation of data; Graphs and charts; Frequency distributions; Diagrammatic presentation of frequency distributions.

Unit II: Measures of Central Tendency – Common measures of central tendency –mean, median, and mode; Partition values – quartiles, deciles, and percentiles.

Unit III: Measures of Dispersion – Common measures of dispersion – range, quartile deviation, Percentile Range, mean deviation, and standard deviation.

Unit IV: Correlation and Regression – Simple correlation coefficient; Spearman's rank correlation, Concurrent Deviation, Simple regression lines

Unit V: Index Number and Time Series – Index Nos. Simple, Weighted, Consumer Price Index, Wholesale Price Index. Time Series: Components, Trends, Seasonal, Cyclical, Irregular Variables, Measurement of Trend, Measurement of Seasonal Fluctuations.

Suggested Readings

1. Anderson, Sweeney, William, Camm (2014). *Statistics for Business and Economics*. Cengage Learning. Latest Edition.
2. Gupta S. P. (2014). *Statistical Methods*. Sultan Chand and Sons. Latest Edition.
3. Das, N.G. (2008). *Statistical Methods*. M. Das and Co. Kolkata. Latest edition.
4. Aczel, Sounderpandian (2008). *Complete Business Statistics*. Tata-McGraw Hill. Latest Edition.
5. Levin, Rubin (2008). *Statistics for Management*. Dorling Kindersley Pvt Ltd. Latest Edition.
6. Kapoor V.K., Gupta S.C. (2014): *Fundamentals of Mathematical Statistics*, Sultan Chand & Sons, New Delhi
7. Gupta S.P.: (2014), *Statistical Methods*. Sultan Chand and Sons.
8. Gupta S.C., (2008) *Business Statistics*, Himalaya Pub House.

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Choice Based Credit System (CBCS) in Light of NEP-2020

B.Com. - III SEMESTER (2024-2027)

BCOMTA301 INTRODUCTION TO GST

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BCOMTA 301	MAJ/MIN	Introduction to GST	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; MAJ/MIN- Major/Minor Course

***Teacher Assessment** shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objective

1. To expose the students to details of indirect taxes i.e. GST.
2. To help them develop abilities and skills required for the applications of GST.

Examination Scheme

The internal assessment of the students' performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of five questions. Each question will carry 12 Marks and consist of four questions, out of which student will be required to attempt either question number (a) and (b) or question number (c) and (d).

Each question i.e. (a), (b), (c) and (d) will be of 6 marks.

Course Outcomes

- CO1** Acquire the basic knowledge of Indirect taxation
- CO2** Familiarize and understand the concept of Goods and Services Tax
- CO3** To understand the application of GST Knowledge in both theoretical and practical aspects.
- CO4** To describe the practical knowledge of functions, powers and structure of GST Council and GSTN.
- CO5** To get the familiar with the technology and the flow of return filing under GST and Assessing Registration Process and estimating supply under GST.

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Choice Based Credit System (CBCS) in Light of NEP-2020

B.Com. - III SEMESTER (2024-2027)

BCOMTA301 INTRODUCTION TO GST

COURSE CONTENT

Unit I: Introduction to Indirect Taxation and GST: Basics of Indirect Taxes – Features of Indirect taxes, Difference, Advantages and Disadvantages, Sources and Authority of Taxes in India (Art 246 of the Indian Constitution)

Unit II: Genesis to GST: Constitutional framework of Indirect Taxes before GST (Taxation Powers of Union & State Government); Concept of VAT: Meaning, Variants and Methods; Major Defects in the structure of Indirect Taxes prior to GST, Genesis of GST in India, Power to tax GST, Extent and Commencement.

Unit III: Introduction to GST: Meaning and Definition of GST, Benefits of GST, Structure of GST – CGST, IGST, SGST, UGST, Taxes subsumed and not subsumed under GST, GST Council and GST Network, Definitions under CGST Act.

Unit IV: Levy and Collection of GST: Charge of GST, Levy and Collection GST, Composite and Mixed Supplies under GST, Power to Grant Exemption, Negative list of GST, GST Rate Schedule for Goods and Services, Imports of goods or services or both, Export of goods or services or both.

Unit V: Registration and Supply: Registration – Persons liable for Registration, Persons not liable for Registration, Procedure for Registration, Deemed Registration, Amendment, Cancellation and Revocation of Registration. Supply: Taxable Event Supply, Place of Supply, Time of Supply, Value of Supply

Suggested Readings

1. Dr. Anil Kumar, *GST Concepts and Application*, Himalaya Publication
2. B. Balachandran, *Indirect Tax*, S. Chand & Sons
3. Datey V.S., *GST Ready Reckoner*, Taxmann Publication, New Delhi

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B.Com. - III SEMESTER (2024-2027)

BCOMBF301 MONEY AND BANKING

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BCOMBF301	MAJ/MIN	Money and Banking	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; MAJ/MIN- Major/Minor Course

***Teacher Assessment** shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objective

The objective of the course is to discuss the money supply process in India with definitions of Indian monetary aggregates, money multipliers and sources of high powered money in India. This course is an introduction to the behavioral science of economics which focuses on interest rates, the concept of money, exchange rates, and monetary policy.

Examination Scheme

The internal assessment of the students' performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of five questions. Each question will carry 12 Marks and consist of four questions, out of which student will be required to attempt either question number (a) and (b) or question number (c) and (d).

Each question i.e. (a), (b), (c) and (d) will be of 6 marks.

Course Outcomes

- CO1** Acquire fundamental knowledge of the money and banking system.
- CO2** Understand the concepts of Interest rate, equilibrium and Inflation.
- CO3** Understand basic concepts of monetary policy.
- CO4** Know the role and functions of RBI for financial sector of the economy.
- CO5** Understand the role of financial institutions and Indian banking system.

COURSE CONTENT

Unit I: Overview of Money and banking

Definitions – Introduction, Functions of Money, Kinds of Money, Basic banking and general principles of bank management, Role of money and banking for the economy, Historical aspect of money and banking in India, Demand for and Supply of Money

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B.Com. - III SEMESTER (2024-2027)

BCOMBF301 MONEY AND BANKING

Unit II: Interest Rates and Return

Money and Interest Rate: Understanding interest rates behavior and term structure of interest rate, Factors influencing changes in equilibrium interest rate and liquidity preference framework, Role of money and interest rates on real economic activity and inflation Applications: Changes in income, money and prices on equilibrium interest rates

Unit III: Monetary Policies:

Reserve Bank of India and its monetary policy: Overall monetary policy framework – instruments like CRR, SLR, REPO, Reverse REPO etc., targets and objectives. Transmission mechanism – operating procedure, liquidity management and OMOs – challenges in the conduct of monetary policy

Unit IV: Reserve Bank of India Traditional and Non-traditional Functions of the RBI, Liquidity Adjustment Facility, Primary Dealers, DFHI, Latest amendments and banking guidelines by RBI.

Unit V: Banking Institutions and Indian Banking System, Lead Bank Scheme, Action Plan and Service Area Approach, Regional Rural Banks, Assets and Liabilities of Scheduled Commercial Banks, Co-operative Banks, Grievances Redressal System in Banks

Suggested Readings

1. Bhole L. M., Mahakud J. (2009), *Financial Institutions and Markets*, Tata McGraw-Hill.
2. Mishkin F S, (2007) *The Economics of Money, Banking, and Financial Markets*, Prentice Hall.
3. Gupta S.B., (1988) *Monetary Economics*, S Chand Limited.
4. Economic Survey, Ministry of Finance, Government of India.
5. RBI Bulletin, www.rbi.org

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Choice Based Credit System (CBCS) in Light of NEP-2020
B.Com. - III SEMESTER (2024-2027)

BCOMES301 BUSINESS POLICY AND STRATEGIC MANAGEMENT

	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BCOMES301	MAJ/MIN	Business Policy and Strategic Management	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; MAJ/MIN- Major/Minor Course

***Teacher Assessment** shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives

This is a top-level management course, and the objective of teaching this course is to enable students to integrate knowledge of various functional areas and other aspects of management, required for perceiving opportunities and threats for an organization in the long-run and second generation planning and implementation of suitable contingency strategies for facing these opportunities & threats.

Examination Scheme

The internal assessment of the students' performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of five questions. Each question will carry 12 Marks and consist of four questions, out of which student will be required to attempt either question number (a) and (b) or question number (c) and (d).

Each question i.e. (a), (b), (c) and (d) will be of 6 marks.

Course Outcomes

CO1: Understand the concept of business policies and Procedures.

CO2: Knowledge of framing business policy and its Implementation.

CO3: Develop an insight and understanding of Strategic Management.

CO4: Practical knowledge of environmental scanning and its techniques.

CO5: Understanding of generic competitive strategies.

COURSE CONTENT

Unit I: Business Policies: Introduction, Overview of Business Policies, Importance of Business Policies, Definitions of Policy, Procedures, Process and Programmes, Types of Policies, Business Policy Statements, Corporate Culture.

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B.Com. - III SEMESTER (2024-2027)

BCOMES301 BUSINESS POLICY AND STRATEGIC MANAGEMENT

Unit II: Business Policy and Decision Making: Introduction, Factors Considered Before Framing Business Policies, Steps Involved in Framing Business Policies, Policy Cycle and its Stages, Implementation of Policy Change, Role of Policies in Strategic Management, Business Policy and Decision Making

Unit III Strategic Management: An Introduction Strategic thinking Vs Strategic management Vs Strategic planning, Meaning of strategic management, concept of strategy, policy and strategy, strategy and tactic, Strategy and strategic plan, Nature of strategic plan, nature of strategic decisions, approaches to strategic decision making, levels of strategies, The strategic management process, strategic management: merits and demerits

Unit IV External Environment: Analysis and appraisal, Concept of environment, environmental analysis and appraisal, why environmental scanning and analysis, component of environment, SWOT: A tool of environment analysis, techniques of environmental search and analysis, ETOP: A technique of diagnosis, decision making on environmental information.

Unit V Generic Competitive Strategy:-Generic v/s competitive strategy, the five generic competitive strategy, competitive marketing strategy option, offensive v/s defensive strategy, Corporate strategy:-Concept of corporate strategy, offensive strategy, defensive strategy, scope and significance of corporate strategy Strategic evaluation and control

Suggested Readings

1. Kazmi A, (2008) *Strategic Management and Business Policy*, Tata Mcgraw Hill, New Delhi.
2. Wheelen T., Hunger T., David J. H., *Concepts in Strategic Management and Business Policy*, Pearson Education, New Delhi, Thirteenth Edition.
3. Lomash. Mishra P.K., *Business Policy & Strategic Management* Vikas Publication
4. Trehan A. (2010) *Strategic Management* 1st edition Dream tech, Wiley
5. Nag A. (2010) *Strategic Management, Analysis Implementation Control*, Vikas Publication
6. Parthasarthy R. (2008), *Fundamentals of Strategic Management*, Wiley India

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B.Com. - III SEMESTER (2024-2027)



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Choice Based Credit System (CBCS) in Light of NEP-2020

BBA+MBA - III SEMESTER (2022-2026)

BBA1501 HUMAN VALUES AND PROFESSIONAL ETHICS

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME						
			THEORY			PRACTICAL			CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L T P	
BBA1501	AECC	Human Values and Professional Ethics	60	20	20	-	-	4 - -	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; AECC- Ability Enhancement Compulsory Course

*Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objective

The objective of the course is to disseminate the theory and practice of moral code of conduct and familiarize the students with the concepts of “right” and “good” in individual, social and professional context

Examination Scheme

The internal assessment of the students’ performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of two sections A and B. Section A will carry 36 Marks and consist of 5 questions, out of which student will be required to attempt any three questions. Section B will comprise of one or more cases / problems worth 24 marks.

Course Outcomes

1. Help the learners to determine what action or life is best to do or live.
2. Right conduct and good life.
3. To equip students with understanding of the ethical philosophies, principles, models that directly and indirectly affect business.

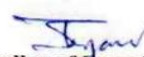
COURSE CONTENT

UNIT I: Human Value

1. Definition, Need for Human Values, Sources of Values
2. Essence of Values
3. Classification of Values (Temporal Values, Universal Values)
4. Values Across Culture


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B.Com. - III SEMESTER (2024-2027)



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BBA+MBA - III SEMESTER (2022-2026)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME						
			THEORY			PRACTICAL			CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	
BBA1501	AECC	Human Values and Professional Ethics	60	20	20	-	-	4	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit; AECC- Ability Enhancement Compulsory Course

***Teacher Assessment** shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

UNIT II: Morality

1. Morality its meaning and definition
2. Values Vs Ethics Vs Morality
3. Concept of Impression Management
4. Impression Management Strategies (Intimidation, Ingratiation, Self-promotion, Supplication, Exemplification)

UNIT III: Leadership in Indian Ethical Perspective.

1. Leadership, Pre-requisites of Leadership
2. Approaches to Leadership, Leadership Styles
3. Ethical Leadership
4. Values in Leadership

UNIT IV: Business Ethics

1. Business Ethics its meaning and definition
2. Relevance of Ethics in Business organizations.
3. Theories of Ethics (Teleological, Deontological)
4. Code of Ethics

UNIT V: Globalization and Ethics

1. Globalization and Business Changes
2. Values for Global Managers
3. Corporate Social Responsibility
4. Benefits of Managing Ethics in Work Place.

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B.Com. - III SEMESTER (2024-2027)



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Choice Based Credit System (CBCS) in Light of NEP-2020

BBA+MBA - III SEMESTER (2022-2026)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BBA1501	AECC	Human Values and Professional Ethics	60	20	20	-	-	4	-	-	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; AECC- Ability Enhancement Compulsory Course

*Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Suggested Readings:

1. Kaur, T. (2004). *Values and Ethics in Management*. Galgotia Publishing Company: New Delhi
2. Kaushal, S.L. (2006). *Business Ethics. Concepts, Crisis and Solutions*. Deep & Deep Publications Pvt. Ltd.: New Delhi
3. Beteille, Andre (1991). *Society and Politics in India*. Athlone Press: New Jersey.
4. Chakraborty, S. K. (1999). *Values and Ethics for Organizations*. Oxford University Press
5. Fernando, A.C. (2009). *Business Ethics - An Indian Perspective*. India: Pearson Education: India
6. Fleddermann, C. D. (2012). *Engineering Ethics*. New Jersey: Pearson Education / Prentice Hall.
7. Boatright, J.R. (2012). *Ethics and the Conduct of Business*. Pearson. Education: New Delhi.
8. Crane, A. and Matten, D. (2015). *Business Ethics*. Oxford University Press Inc: New York.
9. Murthy, C.S.V. (2016). *Business Ethics – Text and Cases*. Himalaya Publishing House Pvt. Ltd: Mumbai
10. Naagrajan, R.R (2016). *Professional Ethics and Human Values*. New Age International Publications: New Delhi.

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Choice Based Credit System (CBCS) in Light of NEP-2020

B.Com. - III SEMESTER (2024-2027)



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Shri Vaishnav Institute of Computer Applications

Name of Program: BCA + MCA/BCA+MCA(Banking Technology)

COURSE CODE	CATEGORY	COURSE NAME	L	T	P	CREDITS	TEACHING & EVALUATION SCHEME				
							THEORY			PRACTICAL	
							END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*
BCCA303	Compulsory	Database Management Systems	3	0	0	3	60	20	20	0	0

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; Q/A – Quiz/Assignment/Attendance, MST - Mid Sem Test.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall be exceed 10 Marks)

Course Educational Objectives (CEOs):

- To provide a sound introduction to the discipline of database management as a subject in its own right, rather than a compendium of techniques and product specific tools.
- To understand the different issues involved in the design and implementation of a database system.
- To introduce to systematic database design: physical and logical database designs, database modeling, different database models
- To present SQL and procedural interfaces to SQL to query, update and manage a database
- To give an understanding of essential DBMS concepts such as: database security, integrity, concurrency, distributed database, and intelligent database, Client/Server (Database Server), Data Warehousing.
- To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.
- To introduce the concepts of transactions and transaction processing.

Course Outcomes (COs): After completion of the course students will be able to

- Understand the database systems concepts
- Design any Desktop application using an entity relationship diagrams (ERD) to express requirements and demonstrates skills to model data requirements and create data models.
- To learn and understand various Database Architectures and Applications.
- apply the knowledge of the subject to any particular database implementation using SQL.
- Apply the normalization concepts to use the database efficiently
- Handle prescribed business problem:

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Choice Based Credit System (CBCS) in Light of NEP-2020

B.Com. - III SEMESTER (2024-2027)



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Computer Applications

Name of Program: BCA + MCA/BCA+MCA(Banking Technology)

COURSE CODE	CATEGORY	COURSE NAME	L	T	P	CREDITS	TEACHING & EVALUATION SCHEME				
							THEORY			PRACTICAL	
							END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*
BCCA303	Compulsory	Database Management Systems	3	0	0	3	60	20	20	0	0

UNIT-I

Introduction: Data and Information, Data Base, Advantage of DBMS approach, various views of data, data independence, schema and subschema, data models, Database languages, DBA and users, Data Dictionary, Database system architecture.

UNIT-II

ER model: basic concepts, design issues, mapping constraint, keys, ER diagram, weak and strong entity sets, specialization and generalization, aggregation, inheritance, design of ER schema, from ER schema to tables.

UNIT-III

Domains, Relations and Keys: domains, relations, kind of relations, relational database, various types of keys, candidate, primary, alternate and foreign keys.

Relational Algebra and SQL: The structure, relational operations, modifications of database, idea of relational calculus, basic structure of SQL, set operations, aggregate functions, null values, nested sub queries, derived relations, views, join relations, SQL-DDL, DML and DCL.

UNIT-IV

Dependencies and Normal Forms: Basic definitions, dependencies, closure set of dependencies trivial, non trivial, irreducible set of dependencies, introduction to normalization, non loss decomposition, Functional Dependency diagram, Different dependencies and Normal forms up to fifth normal form, dependency preservation.

Database Integrity: General idea. Integrity rules, domain rules, attribute rules, relation rules, Database rules, assertions, triggers, integrity and SQL.

UNIT-V

Transaction, Concurrency and Recovery: Basic concepts, ACID properties, Transaction states, Implementation of atomicity and durability, concurrent executions, basic idea of serializability, concurrency control, deadlock, failure classification, storage structure types, stable storage implementation, data access, recovery and atomicity- log based recovery, deferred Database modification, immediate Database modification, checkpoints.

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BCCA303	Compulsory	Database Management Systems	3	0	0	3	60	20	20	0	0

Distributed Database: Basic idea, distributed data storage, data replication, data fragmentation horizontal, vertical and mixed fragmentation.

Text Books:

1. A Silberschatz, H.F Korth, Sudersan, "Database System Concepts", MGH Publication.
2. C.J. Date "An introduction to Database Systems".
3. Elmasri & Navathe, "Fundamentals of Database Systems", III ed. Morgan Kauffman.
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BCCA306	Compulsory	DBMS Lab	0	0	4	2	0	0	0	30	20

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; Q/A – Quiz/Assignment/Attendance, MST - Mid Sem Test.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall be exceed 10 Marks)

Course Educational Objectives (CEOs):

- To provide a sound introduction to the discipline of database management as a subject in its own right, rather than a compendium of techniques and product specific tools.
- To understand the different issues involved in the design and implementation of a database system.
- To introduce to systematic database design: physical and logical database designs, database modeling, different database models
- To present SQL and procedural interfaces to SQL to query, update and manage a database
- To give an understanding of essential DBMS concepts such as: database security, integrity, concurrency, distributed database, and intelligent database, Client/Server (Database Server), Data Warehousing.
- To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS.
- To introduce the concepts of transactions and transaction processing.

Course Outcomes (COs): After completion of the course students will be able to

- Understand the database systems concepts
- Design any Desktop application using an entity relationship diagrams (ERD) to express requirements and demonstrates skills to model data requirements and create data models.
- To learn and understand various Database Architectures and Applications.
- apply the knowledge of the subject to any particular database implementation using SQL.
- Apply the normalization concepts to use the database efficiently
- Handle prescribed business problem:

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List of Experiments:

1. To study Basic SQL commands (create database, create table, use, drop, insert) and execute the following queries using these commands:

- Create a database named 'Employee'.
- Use the database 'Employee' and create a table 'Emp' with attributes 'ename', 'ecity', 'salary', 'enumber', 'eaddress', 'deptname'.
- Create another table 'Company' with attributes 'cname', 'ccity', 'empnumber' in the database 'Employee'.

2. To study the viewing commands (select, update) and execute the following queries using these commands:

- Find the names of all employees who live in Delhi.
- Increase the salary of all employees by Rs. 5,000.
- Find the company names where the number of employees is greater than 10,000.
- Change the Company City to Gurgaon where the Company name is 'TCS'.

3. To study the commands to modify the structure of table (alter, delete) and execute the following queries using these commands:

- Add an attribute named 'Designation' to the table 'Emp'.
- Modify the table 'Emp', Change the datatype of 'salary' attribute to float.
- Drop the attribute 'deptname' from the table 'emp'.
- Delete the entries from the table 'Company' where the number of employees are less than 500.

4. To use (and, or, in, not in, between, not between, like, not like) in compound conditions and execute the following queries using them:

- Find the names of all employees who live in 'Gurgaon' and whose salary is between Rs. 20,000 and Rs. 30,000.
- Find the names of all employees whose names begin with either letter 'A' or 'B'.
- Find the company names where the company city is 'Delhi' and the number of employees is not between 5000 and 10,000.
- Find the names of all companies that do not end with letter 'A'.

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B.Com. - III SEMESTER (2024-2027)



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5. Using aggregate functions execute the following queries:

- Find the sum and average of salaries of all employees in computer science department.
- Find the number of all employees who live in Delhi.
- Find the maximum and the minimum salary in the HR department.

6. To execute the following queries using study the grouping commands (group by, order by)

- List all employee names in descending order.
- Find number of employees in each department where number of employees is greater than 5.
- List all the department names where average salary of a department is Rs.10,000.

7. To write SQL queries to

- Alter table 'Emp' and make 'enumber' as the primary key.
- Alter table 'Company' and add the foreign key constraint.
- Add a check constraint in the table 'Emp' such that salary has the value between 0 and Rs.1,00,000.
- Alter table 'Company' and add unique constraint to column cname.
- Add a default constraint to column ccity of table company with the value 'Delhi'.
- Rename the name of database to 'Employee1'.
- Rename the name of table 'Emp' to 'Emp1'.
- Change the name of the attribute 'ename' to 'empname'.

10. To execute following queries using appropriate SQL statements to

- Retrieve the complete record of an employee and its company from both the table using joins.
- List all the employees working in the company 'TCS'.

11. To study the various set operations and execute the following queries using these commands:

- List the enumber of all employees who live in Delhi and whose company is in Gurgaon or if both conditions are true.
- List the enumber of all employees who live in Delhi but whose company is not in Gurgaon.

12. To study the various scalar functions and string functions (power, square, substring, reverse, upper, lower, concatenation) and execute the following queries using these commands:

- Reverse the names of all employees.
- Change the names of company cities to uppercase.
- Concatenate name and city of the employee.

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13. To study the commands for views and execute the following queries using these commands:

- Create a view having ename and ecity.
- In the above view change the ecity to 'Delhi' where ename is 'John'.
- Create a view having attributes from both the tables.
- Update the above view and increase the salary of all employees of IT department by Rs.1000.

14. To study the commands involving indexes and execute the following queries:

- Create an index with attribute ename on the table employee.
- Create a composite index with attributes cname and ccity on table company.
- Drop all indexes created on table company.

Text Books:

1. A Silberschatz, H.F Korth, Sudersan, "Database System Concepts", MGH Publication.
2. C.J. Date "An introduction to Database Systems"
3. Elmasri&Navathe, "Fundamentals of Database Systems", III ed. Morgan Kauffman
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BCOMBA 301 OPERATION RESEARCH FOR BUSINESS DECISIONS – I

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BCOMBA 301	MAJ/MIN	Operation Research for Business Decisions – I	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; MAJ/MIN- Major/Minor Course

*Teacher Assessment shall be based on the following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objective

This course aims to give students an understanding of the fundamental concepts and techniques of Operations Research (OR) and their applications in solving business decision-making problems. Through theoretical knowledge and practical exercises, students will develop analytical and problem-solving skills necessary for optimizing business processes and resources.

Examination Scheme

The internal assessment of the student's performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of five questions. Each question will carry 12 Marks and consist of four questions, out of which students will be required to attempt either question number (a) and (b) or question number (c) and (d). Each question i.e. (a), (b), (c), and (d) will be of 6 marks.

Course Outcomes

- CO1** To understand the meaning, significance, and scope of Operations Research (OR) in business decision-making.
- CO2** To explore the history and various applications of OR in different industries.
- CO3** To familiarize students with the basic terminology and concepts of Linear Programming.
- CO4** To teach students the transportation model and its applications in solving allocation problems.
- CO5** To acquaint students with the assignment problem and its variations, including routing problems.

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BCOMBA301 OPERATION RESEARCH FOR BUSINESS DECISIONS – I

COURSE CONTENTS

UNIT I: Introduction: Meaning of Operations Research, Significance of Operations Research, Scope of Operations Research, History of Operations Research, Applications of Operations Research, Models of Operations Research

UNIT II: Linear Programming: Basic Terminology, Application of Linear Programming, Advantages and Limitations of Linear Programming, Formulation of LP Models, Maximization Cases with Mixed Constraints, Graphical Solutions under Linear Programming, Minimization Cases of LP, Cases of Mixed Constraints

UNIT III: Linear Programming Simplex Method: Simplex Method of Linear Programming, slack, surplus, and artificial variables, Maximization Cases, Minimization Cases, Simplex, Problems with Mixed Constraints degeneracy, and unbound solutions.

UNIT IV: Transportation Model: General Representation of Transportation Model, Minimizing Case, Maximization Case, Balanced - Unbalanced Transportation Problem, Initial Feasible Solution, Algorithm for North-West Corner Method (NWC), Algorithm for Row and Column Minima Method or Least Cost Method (LCM), Algorithm for Vogel's Approximation Method (VAM), Degeneracy in Transportation Problems, Techniques of Finding Optimal Solution.

UNIT V: Assignment Problems: Introduction, Variations of the Assignment Problem, Multiple Optimal Solutions, Maximization Assignment Problems, Unbalanced Assignment Problem, Routing Problems/Travelling Salesman Problems

Suggested Readings

1. Bazaraa M. S., Jarvis, J. J., Sherali, H. D. (2013). Linear Programming and Network Flows (4th ed.). Wiley.
2. Gupta A. K., Hira, D. S. (2019). Operations Research. S. Chand Publishing.
3. Hillier F. S., Lieberman, G. J. (2014). Introduction to Operations Research (10th ed.). McGraw-Hill Education.
4. K. Swarup P., Gupta P. K., M. Mohan (2018). Operations Research: Theory and Applications. Sultan Chand & Sons.
5. Render B., Stair, R. M., Hanna, M. E. (2018). Quantitative Analysis for Management (13th ed.). Pearson.
6. Taha H. A. (2016). Operations Research: An Introduction (10th ed.). Pearson.
7. Winston W. L. (2003). Operations Research: Applications and Algorithms (4th ed.). Cengage Learning.

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