

# MES Garware College of Commerce, Pune, India (Autonomous)

# Affiliated to Savitribai Phule Pune University, Pune

Choice Based Credit System - CBCS
(2021 Pattern)
With effect from Academic Year 2021-22

Degree Programme of
Bachelor of Business Administration – Computer Application (BBA-CA)

# **Course Contents Semester I**

| Sr.<br>No. | Course Code | Name of the Course (Paper / Subject)                                    | Pg.<br>No. |
|------------|-------------|---|------------|
| 1          | B4-21/101   | Basic programming in 'C'  |            |
| 2          | B4-21/102   | Database Management System (DBMS)                                       | 7          |
| 3          | B4-21/103   | Business Statistics   | 12         |
| 4          | B4-21/104   | Financial Accounting  | 15         |
| 5          | B4-21/105   | rinciples of Management   |            |
| 6          | B4-21/106   | 21/106 Computer Laboratory Based on B4-21/101 and B4-21/102 (Practical) |            |
| 7          | B4-21/107   | Information Communication Technology (ICT)-Level-I                      |            |
| 8          | B4-21/108   | Physical Education (Physical Education, Sports and Yoga)                | 25         |

| Course Code:<br>B4-21/101 | Subject: Basic programming in 'C' | Marks: 100<br>Credits: 3 |
|---------------------------|-----------------------------------|--------------------------|
|                           |                                   |                          |

- To understand step-by-step analysis of the process of programming logic.
- To know the basic properties and syntax of C programming language.
- To understand input and output operation in C..
- To understand all decision making statements in C Language.
- To understand concept of array and string in C Language

#### **Course Outcome:**

- CO1: Ability to visualize the representation the input, output, decisions, and calculations that take place within a program.
- CO2: Understand the history, operators and data types of C Language.
- CO3: Basic knowledge of input, output operations and practical implementation in coding.
- CO4: Practical knowledge of if-else statement and loops used in C Language.
- CO5: Practical implementation of arrays, string and storage classes in C language and build programming skills.

| Unit | Unit Title    | Contents   |
|------|---------------|--|
|      |               |  |
| I    | Algorithm and | 1.1. Concept: Problem, Algorithm.                        |
|      | Flowchart     | 1.2. Characteristics of an algorithm.                    |
|      |               | 1.3. Examples  |
|      |               | 1.3.1. Addition / Multiplication of integers             |
|      |               | 1.3.2. Determining if a number is +ve / -ve , even / odd |
|      |               | 1.3.3. Maximum of 2 numbers, 3 numbers                   |
|      |               |  |

| Unit | Unit Title                  | Contents   |
|------|-----------------------------|--|
|      |                             | <ul> <li>1.3.4. Sum of first n numbers, sum of given n numbers, Sum of digits of a given number, sum of first and last digit of a Number.</li> <li>1.4. Introduction of flow chart</li> <li>1.5. Symbols of flowchart</li> <li>1.6. Draw flowcharts for algorithms implemented in</li> </ul>   |
| II   | Introduction to C language  | <ul> <li>2.1 History</li> <li>2.2 Basic structure of C Programming</li> <li>2.3 Language fundamentals</li> <li>2.3.1 Character set, tokens</li> <li>2.3.2 Keywords and identifiers</li> <li>2.3.3 Variables and data types</li> <li>2.4 Operators</li> <li>2.4.1 Types of operators</li> <li>2.4.2 Precedence and associativity</li> <li>2.4.3 Expression</li> </ul> |
| III  | Managing I/O operations     | 3.1 Console based I/O and related built-in I/O functions 3.1.1 printf(), scanf() 3.1.2 getch(), getchar() 3.1.3 putch() and putchar() 3.1.4 sscanf() and sprintf()   |
| IV   | Decision Making and looping | 4.1 Introduction 4.2 Decision making structure 4.2.1 If statement 4.2.2 If-else statement 4.2.3 Nested if-else statement 4.2.4 Conditional operator 4.2.5 Switch statement   |

| Unit | Unit Title | Contents                                  |
|------|------------|---|
|      |            |   |
|      |            | 4.3 Loop control structures               |
|      |            | 4.3.1 while loop                          |
|      |            | 4.3.2 Do-while loop                       |
|      |            | 4.3.3 For loop                            |
|      |            | 4.3.4 Nested for loop                     |
|      |            | 4.4 Jump statements                       |
|      |            | 4.4.1 break                               |
|      |            | 4.4.2 continue                            |
|      |            | 4.4.3 goto                                |
|      |            | 4.4.4 exit                                |
| V    | Arrays and | 5.1 Introduction to one-dimensional Array |
|      | Strings    | 5.1.1 Definition                          |
|      |            | 5.1.2 Declaration                         |
|      |            | 5.1.3 Initialization                      |
|      |            | 5.2 Introduction to two-dimensional Array |
|      |            | 5.2.1 Definition                          |
|      |            | 5.2.2 Declaration                         |
|      |            | 5.2.3 Initialization                      |
|      |            | 5.3 Introductions to Strings              |
|      |            | 5.3.1 Definition                          |
|      |            | 5.3.2 Declaration                         |
|      |            | 5.3.3 Initialization                      |
|      |            | 5.4 Standard library functions            |

## **Suggested Books:**

| Sr.<br>No. | Name of Book | Author               | Publication      | Edition   | Place        |
|------------|--------------|----------------------|------------------|-----------|--------------|
| 1          | Let us C     | Yashwant<br>Kanetkar | BPB publication. | Sixteenth | New<br>Delhi |

| Sr.<br>No. | Name of Book              | Author            | Publication                      | Edition | Place        |
|------------|---------------------------|-------------------|----------------------------------|---------|--------------|
| 2          | Ansi C                    | Balaguru<br>swamy | McGraw Hill<br>Education (India) | Third   | New<br>Delhi |
| 3          | The complete<br>Reference | Herbelt Schildt   | McGraw Hill<br>Education (India) | Fourth  | New<br>Delhi |

# **Suggested Web/E-Learning Resources:**

| Sr.<br>No. | Topic of the course                      | Lectures (Available<br>on YouTube /<br>Swayam / MOOCS<br>etc.) | Link   | Journals / Articles /<br>Case studies |
|------------|--|--|--|---------------------------------------|
| 1          | C Programming                            | Swayam   | https://onlinecourses<br>_nptel.ac.in/noc21_c<br>s81/preview         | online course                         |
| 2          | Problem Solving through programming in C | Swayam   | https://onlinecourses<br>.nptel.ac.in/noc21_c<br>s54/preview         | online course                         |
| 3          | C Programming:<br>Getting Started        | edX  | https://www.edx.org<br>/course/c-<br>programming-<br>getting-started | online course                         |

| Course Code: | Subject: Database Management System (DBMS) | Marks: 100 |
|--------------|--|------------|
| B4-21/102    |  | Credits: 3 |

- 1. To know the basic database concepts, applications, data models, schemas and instances.
- 2. To understand the basics of data storage, data manipulation and data retrieval
- 3. To learn basics of data entity relationship and normalization
- 4. To learn the basics of SQL and construct queries using SQL in database creation and interaction.
- 5. To familiarize with the concept of Relational Database Management system.

#### **Course Outcome:**

- CO1: Apply the basic concepts of Database Systems and Applications.
- CO2: Understand to implement the E R model and relational model
- CO3: Build a simple database system using different DML, DQL, DDL commands in SQL
- CO4: Learn to apply various Normalization techniques to use Relational Database Management System.

| Unit | Unit Title         | Contents                                     |
|------|--------------------|--|
| I    | File Structure and | File Structure and Organization              |
|      | Organization       | 1.1 Introduction                             |
|      |                    | 1.2 Logical and Physical Files               |
|      |                    | 1.2.1 File                                   |
|      |                    | 1.2.2 File Structure                         |
|      |                    | 1.2.3 Logical and Physical Files Definitions |
|      |                    | 1.3 Basic File Operations                    |
|      |                    |  |

| Unit | Unit Title                 | Contents                                 |
|------|----------------------------|--|
|      |                            | 1.3.1 Opening Files                      |
|      |                            | 1.3.2 Reading and Writing                |
|      |                            | 1.3.3 Closing Files                      |
|      |                            | 1.3.4 Seeking                            |
|      |                            | 1.4 File Organization                    |
|      |                            | 1.4.1 Field and Record structure in file |
|      |                            | 1.4.2 Record Types                       |
|      |                            | 1.4.3 Types of file organization         |
|      |                            | 1.4.3.1 Sequential                       |
|      |                            | 1.4.3.2 Indexed                          |
|      |                            | 1.4.3.3 Hashed                           |
|      |                            | 1.5 Indexing                             |
|      |                            | 1.5.1 What is an Index?                  |
|      |                            | 1.5.2 When to use Indexes?               |
|      |                            | 1.5.3 Types of Index                     |
|      |                            | 1.5.3.1 Dense Index                      |
|      |                            | 1.5.3.2 Sparse Index                     |
| II   | <b>Database Management</b> | Database Management System               |
|      | System                     | 2.1 Introduction                         |
|      |                            | 2.2 Basic Concept and Definitions        |
|      |                            | 2.2.1 Data and Information               |
|      |                            | 2.2.2 Data Vs Information                |
|      |                            | 2.2.3 Data Dictionary                    |
|      |                            | 2.2.4 Data Item or Field                 |
|      |                            | 2.2.5 Record                             |
|      |                            | 2.3 Definition of DBMS                   |
|      |                            | 2.4 Applications of DBMS                 |
|      |                            | 2.5 File processing system Vs DBMS       |
|      |                            | 2.6 Advantages and Disadvantages of DBMS |

| Unit | Unit Title       | Contents                              |
|------|------------------|---------------------------------------|
|      |                  | 2.7 Users of DBMS                     |
|      |                  | 2.7.1 Database Designers              |
|      |                  | 2.7.2 Application programmer          |
|      |                  | 2.7.3 Sophisticated Users             |
|      |                  | 2.7.4 End Users                       |
|      |                  | 2.8 Views of Data                     |
|      |                  | 2.9 Data Models                       |
|      |                  | 2.10 Entity Relationship Diagram(ERD) |
|      |                  | 2.11 Extended features of ERD         |
|      |                  |                                       |
| III  | Relational Model | Relational Model                      |
|      |                  | 3.1 Introduction                      |
|      |                  | 3.2 Terms                             |
|      |                  | 3.2.1 Relation                        |
|      |                  | 3.2.2 Tuple                           |
|      |                  | 3.2.3 Attribute                       |
|      |                  | 3.2.4 Cardinality                     |
|      |                  | 3.2.5 Degree of relationship set      |
|      |                  | 3.2.6 Domain                          |
|      |                  | 3.3 Keys                              |
|      |                  | 3.3.1 Super Key                       |
|      |                  | 3.3.2 Candidate Key                   |
|      |                  | 3.3.3 Primary Key                     |
|      |                  | 3.3.4 Foreign Key                     |
|      |                  | 3.4 Relational Algebra Operations     |
|      |                  | 3.4.1 Select                          |
|      |                  | 3.4.2 Project                         |
|      |                  | 3.4.3 Union                           |
|      |                  | 3.4.4 Difference                      |
|      |                  | 3.4.5 Intersection                    |
|      |                  |                                       |

| Unit | Unit Title            | Contents   |
|------|-----------------------|--|
|      |                       | 3.4.6 Cartesian Product  |
|      |                       | 3.4.7 Natural Join   |
| IV   | SQL (Structured Query | SQL (Structured Query Language)  |
|      | Language)             | 4.1 Introduction   |
|      |                       | 4.2 History Of SQL   |
|      |                       | 4.3 Basic Structure  |
|      |                       | 4.4 DDL, DML, DQL, DCL commands –  |
|      |                       | 4.4.1 Structure – creation, alteration   |
|      |                       | 4.4.2 Insertion of Data  |
|      |                       | 4.4.3 Defining constraints – Primary key, foreign key, unique, not null, check |
|      |                       | 4.4.4 Functions - aggregate functions  |
|      |                       | 4.4.5 Built-in functions – numeric, date, string functions                     |
|      |                       | 4.4.6 Set operations   |
|      |                       | 4.4.7 Simple queries, Sub-queries, Nested queries                              |
|      |                       | 4.4.8 Use of group by, having and order by,                                    |
|      |                       | 4.4.9 Use of Joins and its types   |
|      |                       | 4.4.10 Transaction control commands – Commit, Rollback, Save point.            |
| V    | Relational Database   | Relational Database Design   |
|      | Design                | 5.1 Introduction   |
|      |                       | 5.2 Anomalies of un normalized database  |
|      |                       | 5.3 Normalization  |
|      |                       | 5.4 Normal Form  |
|      |                       | 5.4.1 1 NF   |
|      |                       | 5.4.2 2 NF   |
|      |                       | 5.4.3 3 NF   |
|      |                       | 5.4.4 BCNF   |
|      |                       | 5, BOIN  |

# **Suggested Web/E-Learning Resources:**

| Sr.<br>No. | Topic of the Lecture                 | Lectures (Available on<br>YouTube<br>/Swayam/MOOCS etc.)       | Films | Journals /<br>Articles / Case<br>studies |
|------------|--------------------------------------|--|-------|--|
| 1          | Introduction to Database<br>Systems  | https://onlinecourses.nptel<br>.ac.in/noc21_cs52/preview       |       |  |
| 2          | Database and Content<br>Organisation | https://onlinecourses.sway<br>am2.ac.in/nou20_lb06/pre<br>view |       |  |
| 3          | Database Management System           | https://onlinecourses.sway<br>am2.ac.in/cec21_cs11/pre<br>view |       |  |

## **Suggested Books:**

| Sr.<br>No. | Name of Book                                       | Author  | Publication          |
|------------|--|---|----------------------|
| 1          | Database System Concepts                           | By Henry korth and A.                         | Silberschatz         |
| 2          | SQL, PL/SQL The Programming<br>Language Oracle     | Ivan Bayross,                                 | BPB Publication.     |
| 3          | Database Systems Concepts, Designs and Application | Shio Kumar Singh,                             | Pearson              |
| 4          | Introduction to SQL                                | Reck F. van der Lans                          | Pearson              |
| 5          | Modern Database Management                         | Jeffery A Hoffer,<br>V.Ramesh, Heikki<br>Topi | Pearson              |
| 6          | Database Management Systems                        | Debabrata<br>Sahoo                            | Tata McGraw-<br>Hill |

| Course Code: | <b>Subject: Business Statistics</b> | <b>Marks: 100</b> |
|--------------|-------------------------------------|-------------------|
| B4-21/ 103   |                                     | Credits: 3        |

- 1. To understand role, importance and applications of statistics in business.
- 2. To know the main properties of each measure of Central Tendency and select the most appropriate one for use with a given set of data.
- 3. To understand measures of Dispersion, Coefficient of Variation & Combined Standard Deviation.
- 4. To develop right understanding regarding Regression & Correlation.

#### **Course Outcome:**

- CO1: Recognize the importance and applications of statistics in business.
- CO2: Understand basic role of Central Tendency Mean, Median, Mode & their features.
- CO3: Understand measures of Dispersion, Coefficient of Variation & Combined Standard Deviation.
- CO4: Understand Correlation, use of Regression Analysis & estimate the relationship between two variables and its applications.

| Unit | Unit Title                 | Contents  |
|------|----------------------------|---|
|      |                            |   |
| I    | Introduction to Statistics | 1.1 Concept of Statistics, Role of Statistics, importance & its limitations.  |
|      |                            | 1.2 Tabulation.   |
|      |                            | 1.3 Data Condensation: Raw Data, Variable, Discrete Variable, Continuous Variable, Constant, Attribute with illustration. |
|      |                            | 1.4 Classification: Concept of Classification, Objectives of Classification, Types of Classification.                     |
|      |                            | 1.5 Frequency Distribution – Discrete and Continuous  |

| Unit | Unit Title                  | Contents   |  |
|------|-----------------------------|--|--|
|      |                             | Frequency Distribution, Cumulative Frequency and Cumulative Frequency Distribution  1.6 Graphs & Diagrams: Histogram, Frequency Polygon, Frequency Curve, Ogive Curve, Pie – Diagram, Bar Diagram, Multiple Bar Diagram, Sub – Divided Bar Diagram.              |  |
| II   | Measure of Central Tendency | 2.1 Concept of Measure of Central Tendency, Objectives of Measure of Central Tendency, Requirements of Good Measure of Central Tendency.   |  |
|      |                             | 2.2 Types of Measure of Central Tendency – Arithmetic Mean (A.M), Median, Mode for Discrete and Continuous Frequency Distribution, Merits & Demerits of A.M., Median, Mode.  |  |
|      |                             | 2.3 Determination of Mode and Median Graphically.  |  |
|      |                             | 2.4 Empirical Relation Between Mean, Median and Mode.  |  |
|      |                             | 2.5 Combined Mean.   |  |
|      |                             | 2.6 Numerical Problems.  |  |
| III  | Measure of<br>Dispersion    | 3.1 Concept of Measure of Dispersion, Requirements of Good Measure of Dispersion.  |  |
|      |                             | Measure of Dispersion.  3.2 Types of Measure of Dispersion – Absolute & Relative Measure Dispersion, Range, Standard Deviation (S.D), Variance, Quartile Deviation, Coefficient of Range, Coefficient of Quartile Deviation, and Coefficient of Variation (C.V). |  |
|      |                             | 3.3 Combined Standard Deviation.   |  |
|      |                             | 3.4 Numerical Problems.  |  |
| IV   | Correlation &               | 4.1 Concept of Correlation, Types of Correlation.  |  |
|      | Regression                  | 4.2 Methods to Study Correlation – Scatter Diagram, Karl Pearson Correlation Coefficient.  |  |
|      |                             | 4.3 Numerical Problems on Correlation.   |  |
|      |                             | 4.4 Regression – Concept of Regression, Lines of Regression Equation of Y on X and X on Y.   |  |

| Unit | Unit Title | Contents  |
|------|------------|---|
|      |            | <ul><li>4.5 Regression Coefficients, Properties of Regression Coefficients.</li><li>4.6 Numerical Problems on Regression.</li></ul> |

## **Suggested Books:**

| Sr.<br>No. | Name of Book                   | Author             | Publication              | Edition | Place        |
|------------|--------------------------------|--------------------|--------------------------|---------|--------------|
| 1          | Business Statistics            | G. C. Beri         | Mc-Graw Hill             | Third   | New<br>Delhi |
| 2          | Business Statistics            | J. K.<br>Sharma    | S. Chand                 | Fourth  | New<br>Delhi |
| 3          | Statistics Theory and Practice | R. S. N.<br>Pillai | S. Chand                 | First   | New<br>Delhi |
| 4          | Fundamentals of<br>Statistics  | S. C. Gupta        | Himalaya                 | Seventh | New<br>Delhi |
| 5          | Business Statistics            | G. V.<br>Shenoy    | New Age<br>International | First   | New<br>Delhi |

## **Suggested Web/E-Learning Resources:**

| Sr.<br>No. | Topic of the Lecture | Lectures (Available on<br>YouTube/Swayam/MOOCS etc.)   | Link | Journals /<br>Articles / Case<br>studies |
|------------|----------------------|--|------|--|
| 1          | All                  | https://youtube.com/c/IcaiOrgtube  |      |  |
| 2          | All                  | College e-library https://sites.google.com/mespune.in/mesgar warecollegeofcommercelib/library- membership?authuser=0 |      |  |

| Course Code: | Subject : Financial Accounting | <b>Marks</b> : 100 |
|--------------|--------------------------------|--------------------|
| B4-21/ 104   |                                | Credits: 3         |

- 1. To develop understanding regarding Accounting Concepts, Principles, Conventions and Accounting Standards.
- 2. To develop the understanding of recording of financial transactions in Subsidiary Books.
- 3. To develop proficiency in preparation of financial statements of Sole Proprietorship Trading, Profit and Loss and Balance Sheet.
- 4. To understand the role of computers in accounting.

#### **Course Outcome:**

- CO1: To understand Accounting Standards and how accounting concepts and conventions can be implemented in business.
- CO2: To prepare necessary Subsidiary Books.
- CO3: To prepare Final Accounts of Sole Proprietorship.
- CO4: To understand importance of computers and to know the use of Tally in preparation of books of accounts.

| Unit | Unit Title  | Contents  |
|------|---|---|
| I    | Introduction Accounting<br>Concepts, Principles,<br>Conventions and Accounting<br>Standards | 1.1 Definition, objectives and scope 1.2 Accounting Concepts, Principles and Conventions 1.3 Accounting Standards- Introduction AS-1, AS-2, AS-9, AS-10 |
| П    | Accounting of Transactions  | 2.1 Voucher system  |

| Unit | Unit Title                               | Contents   |
|------|--|--|
|      |  |  |
|      |  | <ul><li>2.2 Accounting process, accounting rules</li><li>2.3 Journal, Ledger,</li><li>2.4 Cash Book , Subsidiary Books</li></ul> |
| III  | Final Accounts of Sole<br>Proprietorship | 3.1 Trial Balance 3.2 Preparation of Final Accounts of Sole Proprietorship(Trading and Profit & Loss Account and Balance Sheet)  |
| IV   | Computerized Accounting                  | 4.1 Role of computers and financial applications 4.2 Accounting software package - Tally   |

## **Suggested Readings:**

| Sr.<br>No | Title of Book                     | Author/s   | Publication                                  |
|-----------|-----------------------------------|--|--|
| 1         | Advance Accounting<br>Vou- I      | S.N. Maheshwari & S.K.<br>Maheshwari                       | Vikas Publication                            |
| 2         | Advance Accounting<br>Vou- I      | M.C. Shukla , T.C. Grewal , S.C Gupta                      | S. Chand                                     |
| 3         | Accountancy (Vol- I)              | S. Kr. Paul  | Central Educational<br>Enterprises (P). Ltd. |
| 4         | Accounting (text and Cases)       | Robert N. Anthony , David F. Hawkins , Kenneth A. Merchant | McGraw Hill<br>Companies                     |
| 5         | Advanced Accountancy (Volume – I) | R.L. Gupta , M. Radha swamy                                | Sultan Chand & Sons                          |

#### **E-Resources**:

| Sr.<br>No. | Topic of the Lecture   | Lectures (Available on<br>YouTube<br>/Swayam/MOOCS etc.)   | Films | Journals/Article<br>s/Case studies  |
|------------|--|--|-------|---|
| 1          | Introduction Accounting Concepts, Principles, Conventions and Accounting Standards | 1. https://www.youtube.com/watch?v=Ue09moYLcZ4  2. https://www.youtube.com/watch?v=MicUd5qAYGE   |       | 1. http://ndl.iitkgp.a c.in/document/M Dl5cHdNUUlnd0 lnZHNoQXlvOG 5lR3FHVzN4a3 V2Z1hLc2R1em 00NGRuYz0 |
| 2          | Accounting of Transactions   | 1. https://www.youtube.com/watch?v=IC4xAGvqLC8  2. https://www.youtube.com/watch?v=Oq0qS6V1x5o   |       | 1. https://cleartax.in/g/terms/voucher  |
| 3          | Final Accounts of Sole<br>Proprietorship   | 1. <a href="https://www.youtube.com/w">https://www.youtube.com/w</a> atch?v=JXEBfTvHUO4  2. <a href="https://www.youtube.com/w">https://www.youtube.com/w</a> atch?v=3XsEufV_nws |       |   |
| 4          | Computerized Accounting  | 1. https://diksha.gov.in/play/content/do_313103575501406 20811842?contentType=ExplanationResource  |       | 1.<br>https://files.eric.e<br>d.gov/fulltext/EJ1<br>134478.pdf  |

| Course Code: | Subject: Principles of Management | Marks: 100 |
|--------------|-----------------------------------|------------|
| B4-21/ 105   |                                   | Credits: 3 |

- 1. To understand the fundamentals of Management
- 2. To study & understand management thoughts of different management thinkers .
- 3. To understand & examine the use of major management functions.
- 4. To explore & study recent trends of Management.

#### **Course Outcome:**

- CO1: Understand the Fundamentals of Management.
- CO2: Understand the thoughts of different Management thinkers.
- CO3: Understand the importance of major management functions.
- CO4: Understand the recent developments in management concepts such as Management of change & Management of Crisis

| Unit | Unit Title                       | Contents  |
|------|----------------------------------|---|
|      |                                  |   |
| I    | Nature of Management             | 1.1 Meaning, Importance & Functions of Management   |
|      |                                  | 1.2 Role of Managers , Qualities of Manager.  |
|      |                                  | 1.3 Management as an Art, Science, Profession and a Social System   |
|      |                                  | 1.4 Concept of Management, Administration, Organization.  |
| II   | Evolution of Management thoughts | <ul><li>2.1 Concept of Managerial thoughts</li><li>2.2 Contributions of Frederick Taylor, Elton Mayo,<br/>Henry Fayol and Peter Drucker, Applications of<br/>Management Theories,</li></ul> |

|     |                               | 2.3 Indian Management ethos.  |  |  |
|-----|-------------------------------|---|--|--|
|     |                               | 2.4 Different Style of Indian Management leaders example (Ratan Tata, Dhirubhai Ambani, N.R, Narayan Murthy, Varghese Kurien                                |  |  |
| III | Major Managerial<br>Functions | 3.1 Forecasting: Meaning, Need Types, Methods, Advantages, Limitations,   |  |  |
|     |                               | <ul><li>3.2 Planning: Meaning, Need</li><li>Types, Process, Methods, Advantages,</li><li>Disadvantages.</li><li>3.3 Organizing: Meaning, Concept,</li></ul> |  |  |
|     |                               | 3.4 Delegation of Authority: Meaning, Importance  |  |  |
|     |                               | 3.5 Decentralization: Concepts, Meaning and, Importance   |  |  |
|     |                               | 3.6 Decision Making: Types, Process, and Techniques   |  |  |
|     |                               | 3.7 Directions: Nature and Principles.  |  |  |
|     |                               | 3.8 Motivation: Meaning & Importance.   |  |  |
|     |                               | 3.9 Controlling :Meaning, Needs, Process & Techniques   |  |  |
|     |                               | 3.10 Other Management functions.  |  |  |
| IV  | Recent trends in              | 4.1 Management of Change,   |  |  |
|     | Management                    | 4.2 Management of Crises,   |  |  |
|     |                               | 4.3 Total Quality Management, JIT & Kaizen  |  |  |
|     |                               | 4.4 Stress Management: Principles & Merits  |  |  |
|     |                               | 4.5 Knowledge Management  |  |  |
|     |                               | 4.6 Outsourcing Meaning, Merits and Demerits  |  |  |

## **Suggested Readings:**

| Sr<br>No | Name of the Book                                    | Author   | Publication                                 | Edition | Place        |
|----------|---|--|---|---------|--------------|
| 1        | Management Concepts and Strategies                  | J.S. Chandan   | Vikas Publishing<br>House Pvt. Ltd.         |         | New<br>Delhi |
| 2        | Principles of<br>Management                         | Harold Koontz , Heinz<br>Weihrich ,<br>A. Ramachandra Arysri | McGraw hill companies                       |         | New<br>Delhi |
| 3        | Management A Global and Entrepreneurial Perspective | Heinz Weihrich , Mark<br>V. Cannice<br>, Harold Koontz       | McGraw hill companies                       |         | New<br>Delhi |
| 4        | Management – 2008<br>Edition                        | Robert Kreitner,<br>MamataMohapatra                          | Biztantra –<br>Management For<br>Flat World |         | New<br>Delhi |
| 5        | Introduction to Management                          | John R. Schermerhorn   | Wiley India Pvt.<br>Ltd.                    |         | New<br>Delhi |
| 6        | Principles of<br>Management                         | P.C. Tripathi , P.N. reddy                                   | McGraw hill companies                       |         | New<br>Delhi |
| 7        | Management Text and Cases                           | R. SatyaRaju , A.<br>Parthasarthy                            | PHI learning Pvt.<br>Ltd                    |         | New<br>Delhi |
| 8        | Management (Multi-<br>Dimensional Approach          | H. R. Appannaiah , G.<br>Dinakar ,<br>H.A. Bhaskara          | Himalaya<br>Publishing House                |         | Mumbai       |
| 9        | Principles of<br>Management                         | L M Prasad   | Himalaya<br>Publishing House                |         | Mumbai       |

## **E-Resources**:

| Sr.<br>No. | Topic of the<br>Lecture | Lectures (Available on YouTube<br>/Swayam/MOOCS etc.) | Films | Journals / Articles /<br>Case studies |
|------------|-------------------------|---|-------|---------------------------------------|
| 1          | All Topics              | https://onlinecourses.nptel.ac.in/noc20 mg58/preview  |       |                                       |
| 2          | All Topics              | https://www.classcentral.com                          |       |                                       |

| Course Code:<br>B4-21/106 | Subject: Computer Laboratory Based on B4-21/101 and B4-21/102 (Practical) | Marks: 100<br>Credits: 4 |
|---------------------------|---|--------------------------|
|---------------------------|---|--------------------------|

## Note:

Laboratory work based on practicals in Paper Basic Programming in "C' (B4-21/101) and Database Management System (DBMS) ( B4-21/102)

| Course Code: | Subject: Basics of IT      | Marks: 50  |
|--------------|----------------------------|------------|
| B4-21/ 107   | (Skill Enhancement Course) | Credits: 2 |

- 1. To make the students familiar with Computer environment.
- 2. To make the students familiar with the basics of Operating System and business communication tools.
- 3. To understand various installation of software.

#### **Course Outcome:**

After completing the course, the student shall be able to

CO1: Understand basics of computer Hardware and Software.

CO2: Understand Microsoft Office for Business communication and daily use.

CO3: Recognize installation process of Various software.

| Unit | Unit Title  | Contents  |
|------|---|---|
| I    | Introduction to<br>Computer and<br>Operating<br>Systems | Introduction to Computer     Definition, Block Diagram, Computer Hierarchy,     Characteristics of Computer                   |
|      |   | 2. Computer System Hardware   |
|      |   | Computer Memory   |
|      |   | Input and Output Devices  |
|      |   | 3. Definition – Software  |
|      |   | Software Types - System Software, Application Software  |
|      |   | 4. Definition of Operating System   |
|      |   | Types of Operating Systems,   |
|      |   | Functions of Operating Systems  |
|      |   | 5. Working with Windows Operating System:   |
|      |   | Introduction, The Desktop, Structure of Windows, Windows Explorer, File and Folder Operations, The Search, The Recycle Bin,   |
|      |   | Adding or Removing New Programs using, Control Panel,<br>Applications in windows (Paint, Notepad, WordPad, and<br>Calculator) |

| Unit          | Unit Title                    | Contents  |  |  |  |
|---------------|-------------------------------|---|--|--|--|
|               |                               | 6. Introduction to Free and Open Source Software,<br>Definition of Computer Virus:  |  |  |  |
|               |                               | Types of Viruses, Use of Antivirus software.  |  |  |  |
| II            | Office<br>Automation<br>tools | MS-Word: Introduction, Starting MS-Word, MS-Word     Screen and its Components, Elementary Working with MS-Word   |  |  |  |
| Spread sheet, |                               | <ol> <li>MS-Excel: Introduction, Starting MS-Excel, Basics of<br/>Spread sheet, MS-Excel Screen and Its Components,<br/>Elementary Working with MS-Excel</li> </ol> |  |  |  |
|               |                               | 3. <b>MS-PowerPoint:</b> Introduction, Starting MS-PowerPoint, Basics of PowerPoint,  |  |  |  |
|               |                               | MS-PowerPoint Screen and Its Components, Elementary Working with MS PowerPoint  |  |  |  |
|               |                               | 4. <b>Data Processing</b> : Files and Records, File Organization (Sequential, Direct/Random, Index )  |  |  |  |
| III           | Installation of               | 1. Installation of Windows (Latest version).  |  |  |  |
|               | various software.             | 2. Installation of Linux (Red-hat, Ubuntu etc.).  |  |  |  |
|               | software.                     | 3. Installation of Dual Boot (Windows + Linux)  |  |  |  |
|               |                               | 4. Installation of Anti-virus.  |  |  |  |
|               |                               | 5. Installation of MS-Office.   |  |  |  |
|               |                               | 6. Practical demonstration of RAM, Hard Disk, Mother Board, Processor, Buses etc.   |  |  |  |

## **Suggested Books:**

| Sr. No. | Name of Book              | Author              | Publication            | Edition | Place     |
|---------|---------------------------|---------------------|------------------------|---------|-----------|
| 1       | Computer Organization     | G.V.<br>Anjaneyulu  | Himalaya<br>Publishing |         | Mumbai    |
| 2       | Fundamentals of Computers | V.<br>Rajaraman     | PHI Learning           |         | New Delhi |
| 3       | Computer fundamentals     | Pradeep K.<br>Sinha | BPB Publications       |         | New Delhi |

# **Suggested Web/E-Learning Resources:**

| Sr.<br>No. | Topic of the<br>Lecture                                 | Lectures (Available on YouTube<br>/Swayam/MOOCS etc.)   | Films | Journals/Arti<br>cles/Case<br>studies |
|------------|---|---|-------|---------------------------------------|
| 1          | Introduction to<br>Computer and<br>Operating<br>Systems | https://www.youtube.com/watch?v=iRJ<br>1vrcczvQ&list=PLWp84cOxjEjMa8Lnr<br>nrncgswhsxaWO1VL<br>NPTL   |       |                                       |
| 2          | Office<br>Automation tools                              | https://onlinecourses.nptel.ac.in/noc20_me39/preview  |       |                                       |
| 3          | Installation of various software.                       | https://support.microsoft.com/en-<br>us/office/install-office-apps-from-<br>office-365-dcf2d841-dac7-455b-9a77-<br>fc8f7ee92702<br>https://support.microsoft.com/ |       |                                       |

| Course Code: | Subject: Physical Education           | Marks : 25 |
|--------------|---------------------------------------|------------|
| B4-21/ 108   | (Physical Education, Sports and Yoga) | Credit: 1  |

- 1. To develop awareness regarding the importance of physical fitness in every individual.
- 2. To bring the overall awareness of values with regard to personal health and fitness.
- 3. To inculcate among students the desired habits and attitudes towards health to raise their health status.
- 4. To develop interest in exercise, sports and games for self-satisfaction and make it a part of life.

#### **Course Outcome:**

- **CO1:** Students will achieve and maintain a health-enhancing level of physical fitness.
- **CO2:** A commitment to exercising safely and effectively for the benefit of personal health and wellness.
- **CO3:** Student will understand that physical activity provides opportunities for enjoyment, challenge and self-expression.
- **CO4:** Student will be able to relate and develop a positive attitude towards physical fitness and sports that will help to improve physical, mental, social, emotional and spiritual health.

| Unit | Unit Title       | Contents                               |  |
|------|------------------|--|--|
| I    | Physical Fitness | 1.1 The Importance of Physical Fitness |  |
|      |                  | 1.2 Personal Fitness Program           |  |
|      |                  | 1.2.1 Daily Activities                 |  |
|      |                  | 1.2.2 Diet                             |  |
|      |                  | 1.2.3 The Habit of Exercise            |  |
|      |                  | 1.2.4 Exercise Session                 |  |
|      |                  | 1.3 Principles of Fitness              |  |

| Unit | Unit Title                   | Contents   |  |
|------|------------------------------|--|--|
|      |                              | 1.4 Progressive Overload                                       |  |
|      |                              | 1.5 Variety  |  |
|      |                              | 1.6 Rest and Recovery  |  |
|      |                              | 1.7 Reversibility  |  |
|      |                              | 1.8 Consistency  |  |
| II   | Exercise Scientific Approach | 2.1 Exercise   |  |
|      |                              | 2.2 Importance of Warm Up                                      |  |
|      |                              | 2.3 Cooling Down   |  |
|      |                              | 2.4 Importance of Regular Exercises                            |  |
|      |                              | 2.5 Effect of Exercise and Training on<br>Various Body Systems |  |
| III  | Diet                         | 3.1 Need of Diet and Nutrition                                 |  |
|      |                              | 3.2 Classification of Nutrients                                |  |
|      |                              | 3.3 Balanced Diet  |  |
|      |                              | 3.4 Water Balance in the Body                                  |  |
|      |                              | 3.4 Better Health through Diet                                 |  |
|      |                              | 3.5 Diet and Behavior  |  |
| IV   | Yoga & Pranayama             | 4.1 Ashtanga of Yoga   |  |
|      |                              | 4.1.1 Yama   |  |
|      |                              | 4.1.2 Niyama   |  |
|      |                              | 4.1.3 Aasanas  |  |
|      |                              | 4.1.4 Pranayama  |  |
|      |                              | 4.1.5 Pratyahara   |  |
|      |                              | 4.1.6 Dharana  |  |
|      |                              | 4.1.7 Dhyana   |  |
|      |                              | 4.1.8 Samadhi  |  |
|      |                              | 4.2 Benefits of Yoga   |  |
|      |                              | 4.3 Need of Yoga   |  |
|      |                              | 4.4 Pranayama  |  |
|      |                              | 4.5 Basics of Breathing  |  |
|      |                              | 4.6 Pranayama  |  |

| Unit | Unit Title       | Contents                            |
|------|------------------|-------------------------------------|
|      |                  | 4.7 Suryanamaskar                   |
| V    | Active Lifestyle | 5.1 Know yourself                   |
|      |                  | 5.2 Increase Physical Fitness       |
|      |                  | 5.3 Make good use of your free time |
|      |                  | 5.4 Active during Weekly holidays   |
|      |                  | 5.5 Know the Value of Efforts       |
|      |                  |                                     |

**Suggested Readings:** 

|     | l leadings .   |                                 |  |           |
|-----|--|---------------------------------|--|-----------|
| Sr. | Title of the Book  | Author/s                        | Publication                                      | Place     |
| 1.  | Foundation of Physical Education, Exercise Science and Sports. | Bucher, C. A.,<br>&Wuest, D. A. | Tata McGraw Hill<br>Education Private<br>Limited | New Delhi |
| 2.  | Textbook of Applied Measurement Evaluation & Sports Selection. | Kansal, D. K.                   | Sports & Spiritual Science                       | New Delhi |
| 3.  | Advanced Fitness Assessment and exercise prescription          | Hayward, V                      | Human Kinetics,                                  | USA.      |
| 4.  | Physical Activity and<br>Health Guidelines                     | Rahl, R. V                      | Human Kinetics.                                  | USA       |
| 5.  | Light on Yoga  | Iyengar, B.K.                   | Orient Longman Pvt.<br>Ltd.                      | Mumbai    |
| 6.  | Light on Astanga Yoga  | Iyengar, B.K.                   | Alchemy Publishers.                              | New Delhi |
| 7.  | Guidelines for Yogic<br>Practices                              | Gharote, M. L.                  | The Lonavla Yoga<br>Institute                    | Pune      |

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