#### MANONMANIAM SUNDARANAR UNIVERSITY

#### TIRUNELVELI

### **B.Sc COMPUTER & INFORMATION TECHNOLOGY**

### (With effect from the Academic Year 2017 - 2018 Onwards)

#### I SEMESTER

COMPONENTS	HOURS	CREDITS
PART 1	6	1 X 4 = 4
TAMIL / OTHER LANGUAGES		
T (1 COURSE)		
PART II ENGLISH	6	1 X 4 = 4
T (1 COURSE)		
PART III CORE SUBJECTS T (1 COURSE)		
P (1 COURSE)		
INTRODUCTION TO INFORMATION TECHNOLOGY	5	1 X 4 = 4
AND HTML(THEORY)		1 37 0 0
PROGRAMMING IN HTML- LAB	4	1 X 2 = 2
ALLIED SUBJECTS - 1		
T (1 COURSE) P(1 COURSE)		
OFFICE AUTOMATION (THEORY)	3	$1 \times 3 = 3$
WORD & SPREAD SHEET - LAB	4	$1 \times 2 = 2$
ENVIRONMENTAL STUDIES T (1 COURSE)	2	1 X 2 = 2
TOTAL $(5T + 2P = 7 \text{ COURSE})$	30	21

#### II SEMESTER

COMPONENTS	HOURS	CREDITS
PART I		
TAMIL / OTHER LANGUAGES	6	$1 \times 4 = 4$
T (1COURSE)		
PART II ENGLISH	6	1 X 4 = 4
T (1COURSE)	0	1 1 4 - 4
PART III CORE SUBJECTS		
FUNDAMENTAL OF COMPUTER AND	5	1 X 4 = 4
C- PROGRAMMING		1 1 1 4
PROGRAMMING IN C - LAB	4	$1 \times 2 = 2$
T (1COURSE)		1 1 2 2
P (1 COURSE)		
ALLIED SUBJECTS – 1I		
DIGITAL DESIGN	3	$1 \times 3 = 3$
POWER POINT & DATABASE ACCESS - LAB		
T (1COURSE)	4	$1 \times 2 = 2$
P (1COURSE	·	
VALUE BASED EDUCATION	2	$1 \times 2 = 2$
T (1COURSE)		1112 2
TOTAL	30	21
(5T + 2P = 7 COURSE)	30	

### MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. Computer & Information Technology) / Semester – I / Core - 1

#### INTRODUCTION TO INFORMATION TECHNOLOGY AND HTML

#### UNIT - I

*Information Technology Basics:* Introduction, Information, Technology, Information technology, Present Scenario, Role of Information Technology, Information technology, and internet, careers in IT industry – Computer Memory and Storage Introduction, memory hierarchy, Random Access Memory (RAM), Read Only memory (ROM).

*Input Output Media:* Introduction, types of input devices, type of output devices.

#### UNIT - II

*Internet:* Introduction – what is Internet – History of Internet – How the web works – Web server and clients – ISP, ISDN – Domain naming system – Internet

Hypertext – HTML – Basic components of HTML – Formatting the HTML text

#### UNIT - III

URL - - Protocol - server name - Port - Relative URLs and Absolute URLs - linking to other HTML Documents - Linking inside the same document - Linking to other Internet Services.

#### UNIT – IV

Lists in HTML – Ordered Lists – Using ordered lists – Unordered Lists – Directory Lists – Definition Lists – Combining list types

Graphics and Web pages – Image formats and Browsers – Graphics and HTML Documents – Images and Hyperlink anchors – Image Maps

#### UNIT - V

HTML Tables – aligning table elements – row and column spanning – frames in HTML – Frameset container

HTML Forms – The <input> tag – Scrolling Marquess

#### **Text Books:**

- 1. Computer Fundamentals and windows with Internet Technology –N.KRISHNAN.
- 2. Fundamentals of Information Technology by Alexis Leon and Mathews Leon Vikas Publication. New Delhi

#### **Reference Books:**

- 1. Introduction to Computers, Peter Norton, sixth edition, Mc-Graw Hill Companies.
- 2. HTML Introduction to Web Page Design and Development, David Mercer, Tata Mc-Graw Hill Publishing Company Limited.

## MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. Computer & Information Technology) / Semester – I / Major Practical - I

#### **LAB - Program List -HTML:**

- 1. a. Write HTML code to develop a web page having the background in red and body "My First Page" in any other color.
  - b. Create a HTML document giving details of your name, age, telephone, address, roll no. using align tag.
  - c. Write HTML code to design a page containing a text in a paragraph give suitable heading style. 4. Design a page having background color given text color red and using all the attributes of font tab.
- 2. a. Write HTML code to create a WebPage that contains an Image as its center.
  - b. Create a web Page using href tag having the attribute alink, vlink.
  - c. Write a HTML code to create a web page of pink color and display moving message in red color.
- 3. a. Create a web page, showing an ordered list of name of your five friends.
  - b. Create a HTML document containing a nested list showing the content page of any book
  - c. Create a web page, showing an unordered list of name of fruits
- 4. Create a table in HTML with Dummy Data Name of Train Place Destination Train No Time Fare Arrival Departure
- 5. Write HTML code to create a web page that displays your class time table.
- 6. a. Create a web page with Table using Frame concept
  - b. Create a web page having two frames one containing links and another with contents of the links. When link is clicked appropriate contents should be displayed on Frame 2.
- 7. Design an application form using all input types
- 8. Design a website of your own by using all html tags.

### MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. Computer & Information Technology) / Semester – I / Allied – I

#### OFFICE AUTOMATION

#### UNIT – I

*Microsoft word:* Word processor Basics – Opening Microsoft Word – Closing the Document and Quitting Word – Starting Microsoft Word XP - Introduction to word – Saving the Document – Previewing – Printing – Closing – Changing the size of a document.

Editing the Document: Opening an existing word document – Moving the cursor – Making changes in your document – Undoing any operation – Saving changes made to the Document – Checking Spelling in the Document – Automatic correction of errors – Printing the file – Saving and Closing the Document.

#### UNIT - II

Designing your Document: Creating a well formatted Document – Setting the Left, Right, Top and Bottom Margins – Setting page Numbers on your Document – Specifying text at the top and the Bottom of each page.

*Creating Tables*: Selecting Text using the mouse – Inserting Rows – Inserting Columns – Deleting a Row – Deleting a Column – Formatting the Text – Mail Merge.

#### UNIT - III

*Microsoft Excel:* Introduction to Spreadsheets – Use of Spreadsheet – Spreadsheet Basics – Formatting a Spreadsheet – Graphs – Functions of Microsoft Excel – Starting Microsoft Excel – Excel Work Environment – Changing size of a Work book and Excel Window – Cell and Cell Address – Standard Toolbar – Formatting toolbar – the Formula bar – Status bar – Components of an Excel Workbook.

Working in Excel: Entering data in cell address – Making changes to an entry – Mathematical Calculations – Formula using numbers – Formula using Cell address – Defining functions simple Graphs.

#### UNIT - IV

*Microsoft Access:* Introduction to Databases – Defining a Database – Understanding RDBMS – objects of a Relational Database – Macros – Functions of a DBMS – Starting Microsoft Access – Creating Tables – Understanding Database – Creating database – Creating a Table – Working on Tables – Saving the Table – Defining primary Key – Closing the Table – Closing the Database window and Quitting Access.

#### UNIT - V

*Microsoft Powerpoint:* Starting Powerpoint – Creating a presentation – Saving a Presentation – working with views – Adding Graphics, Charts and Tables – Masters – Using Slide Transition-Printing – Closing the Slides – Quitting Microsoft Powerpoint.

#### **Text Book:**

1. VIKAS GUPTA, "Comdex Computer Course Kit (XP Edition)", Dreametech press, New Delhi.

#### **References:**

- 1. Stephen L. Nelson, "The Complete Reference office 2000" Tata McGraw Hill Publishing Company limited, New Delhi.
- 2. N.Krishnan, "Window and MS Office 2000 with Database Concepts" Scitech publications (India) Pvt Ltd., Chennai

### MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. Computer & Information Technology) / Semester – I / Allied Practical – I

#### WORD & SPREAD SHEET - LAB

#### MS - Word

- 1. Prepare a word document for spell checking and Thesaurus.
- 2. Prepare a documents and apply Cut, Copy and Paste operations.
- 3. Find a word and Replace with another in a document.
- 4. Insert Header and Footer with the name of the Dept and Page No. in a document.
- 5. Insert a picture in your document.
- 6. Insert mathematical symbols using Microsoft equation 3.0.
- 7. Preparing News paper format (Apply Alignment, Font, Property, Line spacing, Picture Format).
- 8. Preparer a Bio-Data and insert the contents of qualification within the table.
- 9. Mail Merge
- 10. Macro.

#### MS – Excel

- 1. Apply formulas and functions
- 2. Prepare a chart for population growth.
- 3. Create a Pivot table.
- 4. Apply ascending and descending.
- 5. Apply auto format.

### MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. Computer & Information Technology) / Semester – II / Core – 2

#### FUNDAMENTAL OF COMPUTER AND C PROGRAMMING

#### **UNIT - 1**

**Fundamentals of Computers:** Components of a PC – The Systems unit – Different Types of Computers – Setting up a System – Turning on the System – Logging on – Using the mouse – Windows Desktop – Hardware and Software – Installing the Software.

**Starting Windows XP:** Getting familiar with the Desktop – Moving from one Window to another Enlarging a window to screen size – Reverting a window to its previous size – Reducing the Window to a taskbar button – Opening a taskbar button into a window – Adjusting the windows size freely Closing Window – Creating a shortcut for a program – Quitting Windows XP.

#### UNIT - II

**Declarations:** Introduction – Character set – C Tokens – Keywords and Identifiers – Constants – Variables - Data Types - Declaration of Variables - Declaration of Storage class - Assigning Values to Variables - Defining Symbolic Constants - Declaring Variable as Constant - Declaring Variable as Volatile - Overflow and Underflow of Data.

Operators and Expressions: Introduction - Arithmetic Operators - Relational Operators - Logical Operators - Assignments Operators - Increment and decrement operators - Conditional operators - Bitwise Operators - Special Operators - Arithmetic Expressions - Evaluation of Expressions - Precedence of Arithmetic Operators - Some computational problems - Type conversions in Expressions - operator precedence and Associativity - Mathematical Functions.

*Managing Input and Output Operations:* Introduction – Reading a character – Writing a Character – Formatted Input – Formatted Output.

#### UNIT - III

**Decision Making and Branching:** Introduction – Decision Making with IF Statement – Simple IF Statement – The IF. Else statement – Nesting of IF. Else Statements-theELSE. IF Ladder- the Switch Statement – The? Operator – The GOTO Statement.

**Decision Making and Looping:** Introduction –The WHILE Statement –The DO Statement – The FOR Statement – Jumps in Loops – Concise Test Expression.

#### **UNIT-IV**

*Arrays:* Introduction – One Dimensional Arrays – Declaration of Dimensional Arrays- Initialization of One Dimensional Arrays –Two Dimensional Arrays – Initializing Two Dimensional Arrays – Multi – Dimensional Arrays – Dynamic Arrays.

*Character Arrays and Strings:* Introduction – Declaring and Initializing String Variables- Reading Strings from Terminal – Writing Strings to Screen Arithmetic Operations on Characters –putting Strings to together – Comparison of Two Strings – String Handling Functions – Table of Strings.

#### UNIT - V

*User - Defined Functions:* Introduction – Need for User –Defined Functions – a multi – function program – Elements of User –Defined Functions-Defining of functions – Return values and their Types - Functions Calls - Function Declaration - Category of Functions - No Arguments and No Return values - Arguments but No Return Values - Arguments with Return Values – No Arguments but Returns a Value – Functions that Returns multiple values – Nesting of Functions-Recursion-Passing Arrays top Functions-Passing Strings top Functions - The scope., Visibility and Lifetime of Variables – Multifile programs.

**Structure and Unions:** Introduction – Defining a Structure – Declaring Structure Variables – Accessing Structure members – Structure Initialization Copying and Comparing Structure Variables – Operations on Individual Members – Arrays of Structures – Arrays within Structures- Structures with structures- Structures and Functions – Unions – Size of Structures- Bit Fields.

#### Text Book:

- 1. Programming in ANSI C, E. Balagurusamy, 6rd Edition, Tata McGraw Hill Publishing Company, 2012.
- 2. Peter Norton, "Introduction to Computers", Tata McGraw-Hill Publishing Company Limited, New Delhi.

#### **Reference Books:**

- 1. Programming with C, Schaum's Outline Series, Gottfried, Tata McGraw Hill, 2006
- 2. Programming with ANSI and Turbo C, Ashok N. Kamthane, Pearson Education, 2006
- 3. H. Schildt, C: The Complete Reference, 4<sup>th</sup> Edition, TMH Edition, 2000.
- 4. Kanetkar Y., Let us C, BPB Pub., New Delhi, 1999.

# MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. Computer & Information Technology) / Semester – II / Major Practical – II

#### C-LAB

- 1. Write a C program to check the given number is prime or not.
- 2. Write a program to calculate simple Interest and Compound Interest.
- 3. Writer a C program to find the roots of a Quadratic Equation using simple if statement.
- 4. Writer a C program to sort numbers in ascending order using **for** statement.
- 5. Writer a C program to print Fibonacci Series using while statement.
- 6. Writer a C program to find the value of  $1^3+2^3+5^3+\ldots+25^3$  using **do... while** statement.
- 7. Writer a C program to print the grade of a student using **switch... case** statement.
- 8. Writer a C program for simple calculator using switch/case loop.
- 9. Writer a C program to read in a three digit number produce following output (assuming that the input in 539) 5 hundreds 3 tens 9 units.
- 10. Writer a C program for swapping two variables without using third variable.
- 11. Writer a C program to prepare EB Bill using if...elseif ladder.
- 12. Writer a C program to find sum of Digits and reverse of the number using function.
- 13. Writer a C program to find factorial and GCD value using recursion.
- 14. Writer a C program to find the product of two Matrices.
- 15. Writer a C program to arrange the names in alphabetical order using **strcmp()** function.

### MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. Computer & Information Technology) / Semester – II / Allied – II

#### DIGITAL DESIGN

#### Unit – I

Digital Systems and Binary Numbers: Digital Systems – Binary Numbers – Numbers – Base Conversions – octal and Hexadecimal Numbers – Complements – Signed Binary Numbers – Binary Codes – Binary Storage and Registers- Binary Logic.

*Boolean Algebra:* Introduction – Basic Definitions – Axiomatic Definition of Boolean algebra – Basic Theorems and properties of Boolean Algebra – Boolean Functions.

#### Unit - II

Logic Gates: Canonical and Standard Forms – Other Logic Operations – Digital Logic Gates – integrated Circuits.

*Gate –Level Minimization:* Introduction – The Map Method –Four – Variable Map-Five – Variable Map – Product –of-Sums Simplification –Don't Care Conditions.

#### **Unit-III**

NAND and NOR Implementation – Other Two – Level Implementations – Exclusive OR Function. Combinational Logic: Introduction – Combinational Circuits – Analysis procedure – Design Procedure – Binary Adder – Subtractor – Decimal Adder – Binary Multiplier – Magnitude Comparator.

#### Unit -IV

Decoders – Encoders – Multiplexers

Synchronous Sequential Logic: Introduction – Sequential Circuits - Storage Elements Latches – Storage Elements: Flip-Flops – Analysis of Clocked Sequential Circuits.

#### Unit - V

Registers and Counters: Registers – shift Registers – Ripple Counters – Synchronous Counters-Others Counters.

*Memory:* Introduction – Random Access Memory – Memory Decoding – Error Detection and Correction – Read Only Memory.

#### **Text Book:**

1. M. Morris Mano, Michael D. Ciletti, "Digital Design", Prentice Hall of India Private Ltd.

#### References

- 1. Albert Paul Malvino, Donald P.Leach, "Digital Principle and Applications", Tata McGraw Hill Publishing Company Limited, New Delhi.
- 2. Donald D. Givone, "Digital Principles and Design" Tata McGraw –Hill Publishing Company Limited, New Delhi.
- 3. RP Jain, "Modern Digital Electronics", Tata McGraw –Hill Publishing Company Limited, New Delhi.

# COMPUTER & INFORMATION TECHNOLOGY -ALLIED FOR B.SC ELECTRONICS INTRODUCTION TO COMPUTERS & OFFICE AUTOMATION

#### SEMESTER - I

#### Unit - I

Fundamentals of Computers: Components of a PC – The System Unit – Different Types of Computers – Setting up a System – Turning on the system – Logging on – Using the mouse-Windows Desktop – Hardware and software – Installing the Software.

Starting Windows XP: Getting familiar with the Desktop – Moving from one Window to another Enlarging a window to screen size – Reverting a window to its previous size-reducing the window to a taskbar button – opening a taskbar button into a window-Adjusting the window size freely closing window –creating a shortcut for a program – Quitting windows XP.

#### Unit - II

*Microsoft Word:* Word Processor Basics – Opening Microsoft Word – Closing the Document and Quitting word – starting Microsoft word XP –Introduction to Word – Saving the Documents previewing –printing –closing – changing the size of a document.

Edition the Document: Opening an existing word document- Moving the cursor – Making changes in your document – Undoing any operation – Saving changes made to the Document-Checking spelling in the Document – Automatic correction of errors – printing the file – Saving and closing the Document

#### Unit – III

Designing your Document: Creating a well formatted Document – Setting the left, right Top and Bottom Margins – Setting Page Numbers on your Document – Specifying text at the Top and the Bottom of each page.

*Creating Tables:* Selecting Text using the mouse –Inserting Rows – inserting Columns – Deleting a Row – Deleting a Column- Formatting the Text – Mail Merge.

#### Unit -IV

*Microsoft Excel:* Introduction to Spreadsheets –use of Spreadsheet – Spreadsheet basics – Formatting a Spreadsheet – Graphs – Functions of Microsoft Excel-Starting Microsoft Excel – Excel Work Environment – Changing size of a Workbook and Excel Window – Cell and Cell Address Standard Toolbar – Formatting Toolbar – the Formula bar – Status bar – Components of an Excel Workbook.

*Working in Excel:* Entering data in Cell address – Making changes to an entry – Mathematical Calculations – Formula using numbers – Formula using Cell address - Defining functions – Simple Graphs.

#### Unit- V

*Microsoft Access:* Introduction to Database – Defining a Database – Understanding RDBMS-Objects of a Relational Database – Macros – Functions of a DBMS-Starting Microsoft Access – Creating Tables- Understanding Database – Creating a Database – Creating a Table – Working on Tables – Savings the Table – Defining primary Key – Closing the Table – Closing the Database windows and Quitting Access.

Microsoft Power Point: Starting power point – Creating a Presentation – Saving a Presentation – Working with views- Adding Graphics, Charts and Tables – Masters – Using Slide Transition – Printing – Closing the Slides – Quitting Microsoft Powerpoint.

#### **Text Book**

1. VIKAS GUPTA, "Comdex Computer Course Kit (XP Edition)", Dreamtech Press, New Delhi.

#### References

- 1. Stephen L. Nelson, "The Complete Reference Office 2000" Tata McGraw Hill Publishing Company Limited, New Delhi.
- 2. N. Krishnan, "Windows and Ms Office 2000 with Database Concepts", Scitech Publications (India) Pvt. Ltd., Chennai.
- 3. Peter Norton, "Introduction to Computer", Tata McGraw-Hill Publishing Company Limited, New Delhi.

#### SEMESTER - II

#### PROGRAMMING IN C

**UNIT – I Declarations:** Introduction – Character set – C Tokens – Keywords and Identifiers-Constants – Variables – Data Types – Declaration of Variables – Declaration of Storage class-assigning values to Variables – defining Symbolic Constants – Declaring Variable as Constant – Declaring Variables as Volatile – Overflow and Underflow of Data.

Operators and Expressions: Introduction – Arithmetic Operators - Relational Operators- Logical Operators – Assignment Operators – increment and decrement operators – Conditional Operators - Bitwise Operators - Special Operators - Arithmetic Expressions - Evaluation of Expressions – precedence of Arithmetic Operators – Some computational problems – Type conversions in Expressions – Operator Precedence and Associativity – Mathematical Functions.

**Managing Input and output Operations:** Introduction - Reading a character - Writing a Character - Formatted Input - Formatted Output.

Unit II: Decision Making and Branching: Introduction – Decision Making with IF statement –
Simple IF Statement – The IF. Else Statement – Nesting of IF. Else Statements – The ELSE IF Ladder
– The Switch statement – The? Operator – The GOTO Statement.

**Decision Making and Looping:** Introduction – the WHILE Statement – The DO Statement-The FOR Statement – Jumps in Loops – Concise Test Expressions.

**UNIT III: Arrays:** Introduction – One Dimensional Arrays – Declaration of One Dimensional Arrays – Initialization of One Dimensional Arrays–Two Dimensional Arrays – Initializing Two Dimensional Arrays – Multi – Dimensional Arrays – Dynamic Arrays.

Character Arrays and Strings: Introduction – Declaring and Initializing string Variables – Reading strings from Terminal – Writing Strings to screen Arithmetic Operations on Characters –putting strings to together- Comparison of Two strings – String Handling Functions –Table of strings.

**UNIT IV: User – Defined Functions:** Introduction – Need for User – Defined Functions – a multi-Function Program – Elements of User- Defined Functions –Definition of Functions – Return values and their types – Function Calls – Function Declaration – Category of Functions – No Arguments and No Return Values – Arguments but No Return Values – Arguments with Return Values – No Arguments but returns a Value – Function that returns multiple values – Nesting of Functions – Recursion- Passing Arrays to Functions – Passing Strings to Functions – The Scope, Visibility and Lifetime of Variables- Multifile programs.

Structure and Unions: Introduction - Defining a Structure – Declaring Structure Variables- Accessing Structure Members – Structure Initialization Copying and Comparing Structure Variables- Operations on Individual Members – Arrays of Structures – Arrays within Structures – Structures with Structures – Structures and Functions – Unions – Size of Structures – Bit Fields.

UNIT V: Pointers: Introduction – Understanding Pointers – accessing the Address of a Variable – Declaring Pointer Variables – Initialization of pointer variables – Accessing a variable through its pointer – chain of pointers Expressions – pointer increments and scale Factor – pointers and Arrays – Pointer and Character Strings – Array of pointers – pointers as Function Arguments – Functions Returning pointers –pointers to functions –pointers and structures – Troubles with pointers. File Management in C: Introduction – Defining and Operating a File – Closing a file – Input /output Operations on Files –Error handling During I/O Operations – Random access to Files – Command Line Arguments.

#### **Text Book:**

Programming ANSI C 4E-E Balagurusamy, Tata McGraw – Hill Publishing company Limited.

#### **Reference Books:**

- Schaum's outlines Programming with C- Byron s. Gottfrioed, Second Edition, Tata McGraw
   Hill publishing company Limited.
- 2. The complete Reference C Herbert Schildt, Fourth Edition, Tata McGraw-Hill Publishing Company limited.
- 3. Programming with ANSI and Turbo C- Asok N. Kamthane, pearson Educations.

#### ALLIED PRACTICAL LIST

#### **OFFICE AUTOMATION and C Programming LAB**

#### 1-Semester

#### MS - Word

- 1. Prepare a word document for spell checking and Thesaurus.
- 2. Prepare a document and apply Cut, Copy and Paste operations
- 3. Find a word and Replace with another in a document.
- 4. Insert Header and Footer with the name of the Dept and Page No. in a document.
- 5. Insert a picture in your document.
- 6. Insert mathematical symbols using Microsoft equation 3.0.
- 7. Preparing News paper format. (Apply alignment, Font property, line spacing, picture Format).
- 8. Prepare a Bio-Data and insert the contents of qualification within the table
- 9. Mail Merge.
- 10. Macro.

#### MS-Excel

- 1. Apply formulas and functions.
- 2. Prepare a chart for population growth.
- 3. Create a Pivot table.
- 4. Apply ascending and descending.
- 5. Apply auto format.

#### **II-Semester**

#### **C Programming**

- 1. Temperature Conversion Fahrenheit to Degree Celsius.
- 2. Solve and find all the possible roots of a quadratic equation.
- 3. Evaluate the power series for a required accuracy. Ex= $1+x+x^2/2!+x^3/3!+....x^n/n!$ , 0 < x < 1
- 4. Prepare a mark sheet and also print the grade of the result.
- 5. Sort a list of numbers in descending order.
- 6. Matrix multiplication.
- 7. Check if a string is palindrome.
- 8. Sort a list names in alphabetic order.
- 9. Calculate the standard deviation for a set of numbers. Use function
- 10. Find nCr using recursion

#### II- SEMESTER

#### POWER POINT & DATABASE ACCESS - LAB

#### MS - Powerpoint

- 1. Create a power point presentation with 3 slides.
- 2. Create a design template with 3 slides.
- 3. Create a presentation with animation.
- 4. Create a power point presentation with 4 slides. Set slide transition time of 3 seconds and Display your presentation.
- 5. Create a presentation with auto content wizard.

#### MS - Access

- 1. Create an employee database.
- 2. Create a students database. Set a filed to primary key.
- 3. Create an salary list preparation.
- 4. Create an report.
- 5. Create an Mailing labels.