MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

UG COURSES – AFFILIATED COLLEGES

B.SC. INFORMATION TECHNOLOGY

(Choice Based Credit System)

(with effect from the academic year 2017-2018 onwards)

COMPONENTS	HOURS	CREDITS
PART 1	6	1 X4 = 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)	5	1 X 4 = 4
INTRODUCTION TO INFORMATION TECHNOLOGY AND	,	
HTML (THEORY)	4	$1 \times 2 = 2$
PROGRAMMING IN HTML - LAB		
ALLIED SUBJECTS - 1		
T (1 COURSE) P(1 COURSE)		
OFFICE AUTOMATION (THEORY)	3	$1 \times 3 = 3$
WORD & SPREAD SHEET - LAB	4	1 X 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)	U	1 1 4 - 4
PART III - CORE SUBJECTS		
FUNDAMENTAL OF COMPUTER AND	5	1 X 4 = 4
C- PROGRAMMING	3	1 A 4 - 4
PROGRAMMING IN C - LAB	4	1 X 2 =2
T (1COURSE)	4	1 A Z -Z
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 T (1COURSE)	2	$1 \times 2 = 2$
TOTAL $(5T + 2P = 7 \text{ COURSE})$	30	21

T THEORY, P = PRACTICAL

MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. 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. Information Technology) / Semester – I / Major Practical -1

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. 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 – Formulas 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. Information Technology) / Semester – I / Allied Practical - I

WORD & SPREAD SHEET - LAB

I – SEMESTER

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. 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 Window 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 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 Statement-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 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 String – Strings 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- Passing String 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 – 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, 4th Edition, TMH Edition, 2000.
- 4. Kanetkar Y., Let us C, BPB Pub., New Delhi, 1999.

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

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 1³+2³+5³+.....+25³ 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. Information Technology) / Semester – II / Allied - 2

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.

MSU/ 2017-18 / UG-Colleges /Part-III (B.Sc. Information Technology) / Semester – II / Allied Practical - 2

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.

INFORMATION TECHNOLOGY –ALLIED FOR B.SC ELECTRONICS INTRODUCTION TO COMPUTERS & OFFICE AUTOMATION

SEMESTER - I

Unit - I

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- 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.

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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.

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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. $Ex=1+x+x^2/2!+x^3/3!+.....x^n/n!, 0 \le x \le 1$
- 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