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Job o

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Job o s
Data Entry operator I Hep Des Office Executive oftware rain

Objectives:

- 1. To familiarize the students with the Fundamentals of Information Technology and its applications.
- 2. To use computer syst 9 0 Td ()Tj /R13 12 Te1(t)-2(9 0 Td ()64(s)-1-13.8 Td Td ()6-2(og)-10.003.8 Td

Working with Formulae, Efficient Data Display with Data formatting (number formatting, date formatting etc.), Function: different types of functions and their usage Worksheet Printing. Working with Graphs and Charts: Creating Chart and graphs, using chart wizard, sizing and moving parts, updating charts, Changing chart types, Formatting Charts. Database Management; Finding records with Data form, Adding/Deleting Records, Filtering Records in a worksheet, Sorting; Macros: Creating Macros, Record Macros, Running Macros, Assigning Macros to Buttons.

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r s ntat on ac a s Basics, General Features, Creating a presentation, Different types of slide views, Master Slides and its use, Formatting Slides: slide design, Layout and background; Animation effect, Transition effect, timing effects, Macros.

Databas ac a : Introduction to Database, Tables, Data Types, Attributes, Records; Overview of MS-ACCESS, Creating Database, Creating Tables, Data types, Importing and Exporting data, using Wizards, Creating forms and queries.

References Resources:

1.

References Resources::

- 1. An Introduction to Database System, Galgotia Publications By
- 2. Database System Concepts, McGraw Hill By Henry F. Korth
- 3. C.J. Date, A. Kannan, S. Swamynathan," An Introduction to Database system", Pearson.
- 4. Dr. Madhulika Jain, Vinita Pillai, Shashi Singh and Satish Jain, "Introduction to Database
- Management", BPB.

 5. High Performance MySQL: Optimization, Backups, Replication, and More2nd Edition by Baron Schwartz (Author), Peter Zaitsev (Author),
- 6. MySQL in a Nutshell (In a Nutshell (O'Reilly)) 2nd Edition by Russell J. T. Dyer.

Cr d ts

Job Roles: Data Entry operator I Hep Des Office Executive oftware rainee eq. nica upport oice $B \neq O$ Lab eq. nician Database A_m inistrator etwor A_m inistrator App ication A_m er

Objectives:

- 1. To equip the students with the knowledge of hardware maintenance, Software installation and handling troubleshooting.
- 2. To enhance the basic hardware skills of the students.

Instruct ons

- 1. The syllabus of this paper has been divided into FOUR units.
- 2. Examiner will set a total of **NINE** questions comprising Two questions from each unit, including Question No. 1 (compulsory) of short answer type covering the whole syllabus.
- 3. The students are required to attempt one question from each unit and the entire Compulsory Question No. 1.
- 4. All questions carry equal marks.

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roub soot n G n ra C rob s: Introduction, General Troubleshooting rules, Common Problems & Solutions, Preventive Maintenance.

BI: Typical Motherboard BIOS, BIOS Features, BIOS & Boot Sequences, BIOS Shortcoming & Compatible Issues, BIOS Troubleshooting, BIOS Upgrades.

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- 1. Cover page including project title, name of the student, name of department and project guide.
- 2. Acknowledgements
- 3. Contents with page number
- 4. Introduction and background of the application Objectives
- 5. System analysis
- 6. System feasibility study
- 7. Further scope of the project Bibliography
- 8. Appendices

Cr d ts

Job Roles: Infor, ation an system operation, and er oftware \triangle rowing, er ystem Analyst I Officers C_{P_1} puter Assistants for the Genera Office Accounts and entry ent Database A_m inistrator etwor A_m inistrator ebsite Development \triangle rowing, er

Objectives:

- 1. To develop arithmetic, algebraic, geometric, and problem-solving skills.
- 2. To apply problem solving and logical skills.
- 3. To make the students familiar with several subfields of mathematics (e.g. numerical analysis, topology, operations research).

Instruct ons

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n t I

ts and at ons:- Definition of sets, subsets, complement of a set, universal set, intersection and union of sets, De-Morgan's laws, Cartesian products, Equivalent sets, Countable and uncountable sets, minset, Partitions of sets. **at ons**: Basic definitions, graphs of relations, properties of relations.

n t II

Matr x:- Introduction, Different kinds, matrix addition and scalar multiplication, multiplication of matrices, transpose etc. Square matrices, inverse and rank of a square matrix, differentiation and Integration.

n t III

Nu r ca M tods Solving simultaneous equations using Gauss elimination, Gauss Jordan Methods, Matrix Inversion method.

n t I

L n ar ro ra n:- Graphical and Simplex method, Duality in Linear programming, Transportation problems, Assignment and travelling salesman problem.

References Resources::

- 1. Hiller, F.S & Liberman,G.J: Introduction To Operations Research, 2nd Edition Holden Day Inc London.
- 2. Schaum Series: Theory and Problems of Essential Computer Mathematics, Mc Graw Hill, New York, 3rd Edition.
- 3. Salaria, R.S: Computer Oriented Numerical Methods, Khanna Book Publishing Co (P) Ltd, New Delhi.
- 4. Liu, C. L.: Elements of Discrete Mathematics, McGraw Hill.

Cr d ts

Job Roles: Information an system is operation, and er oftware from er ystem. Analyst I Officers C_{P_n} puter Assistants for the Genera Office Accounts and the ent Database A_m inistrator etwor A_m inistrator ebsite Development from er

Objectives:

- 1. To help the students gain a better understanding of OO design and program implementation by using OO language features.
- 2. To make students learn various concepts of object oriented approach towards problem solving.
- 3. To introduce different techniques pertaining problem solving skills...

Instruct ons

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- 4. All questions carry equal marks.

n t I

Conc pts o b ct r nt d ro ra n : Introduction to OOP, Difference between OOP and Procedure Oriented Programming, Object, Class, Encapsulation, Data Hiding, Abstraction, Polymorphism, Inheritance. Analysis and design of system using Object Oriented Approach, Structure of a C++ Program and I/O streams.

n t II

C ass s Class declaration: Data Members, Member Functions, Private and Public Members, Data Hiding and Encapsulation, Arrays within a class.

b cts Creating objects, Accessing class data members, Accessing member functions, Array of objects, Objects as function arguments: Pass by value, Pass by reference, Pointers to Objects.

Constructors and D structors: or1 [:)-2(TJ /R13 1250TJ /R4-1250TJ /R42(e)4(s)-1 (c)4(l-2(a)-6(r)3(a)4

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Objectives:

- 1. To introduce the whole range of web technologies starting from HTML, DHTML, JAVA SCRIPT.
- 2. To focus on practical aspects of the web technologies.
- 3. To make the students understand the various steps in designing a creative and dynamic website.

Instruct ons

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EC I N A

Bas c t r no o y About Web Server; Web Client/Browser, Understanding how a Browser communicates with a Web Server, Website, Webpage, Static Website, Dynamic Website, Internet, Intranet, Extranet, WWW, URL

H ML Structure of an HTML program, Paragraph Breaks, Line Breaks; Emphasizing Material in a Web Page (Heading Styles, Drawing Lines); Text Styles (Bold, Italics, Underline); Other Text Effects (Centering (Text, Images etc.)

L sts Unordered List, Ordered Lists, Definition lists Adding Graphics to HTML Documents using the Border, Width, Height, Align, ALT Attributes

ab s Caption Tag, Width, Border, Cell padding, Cell spacing, BGCOLOR, COLSPAN and ROWSPAN Attributes.

EC I N B

L n n Docu, nts Anchor tag, External Document References Resources:, Internal Document References Resources: and Image Maps

Fra_→ s Introduction s 805(,6)-10(c)4(tNn36e)4(s)-1(e)Td [Nn3Nn36essCTI1(e(e)4(-2(a)9.96 a)4

EC I N C

Java cr pt Introduction and Features of JavaScript, Writing JavaScript into HTML, tokens, data types, variables, operations, control constructs, strings arrays, functions, core language objects, client side objects, event handling. Applications related to client side form validation. Other Built-In Objects in JavaScript: The String Object, The Math Object, The Date Object;

EC I N D

Introduct on to Dr a w av r Understanding Workspace Layout, Managing Websites, Creating a Website, Using Dreamweaver Templates, Adding New WebPages, Text and Page Format, Inserting Tables, Lists, Images, Adding Links.

Web Hosting: Understanding Domain Name & Web Space, Getting a Domain Name & Web Space (Purchase or Free), Uploading the Website to Remote Server, Introduction to Open Source Third party FTP Tools

r nc s sourc s

Java Script Unleased, Pearson Education, New

l Wanger & Wyke : Delhi.

HTML, DHTML, Java Script by BPB, Latest

2 Bayross, Ivan: : reprint

The Complete Reference Java 2, TMH, Latest

3 Schildt, Herbert : reprint

4 Thomas Powell : HTML & CSS: The Complete Reference

5 John Pollock : JavaScript, A Beginner's Guide

Dreamweaver CS5 For Dummies Paperback

6 Janine C. Warner : Edition

Adobe Dreamweaver CS5 Bible Paperback

7 Joseph Lowery : Edition

8 David Powers : The Essential Guide to Dreamweaver CS4

- 2. Rockley, L.E.,: Finance for the Non-Accountant 2nd. Edition, London: Business Book.
- 3. Levy and Sarnat,: Principle of Financial Management, Prentice Hall International, PHI.
- 4. Arnold,: Financial Accounting, Prentice-Hall International (Paperback Edition).
- 5. Horngren and Sundem: Introduction to Financial Accounting, Prentice-Hall International (Paperback Ediion) N.D: PHI.
- 6. Murthy, U.S: Management Finance, 2nd. Edition, Vakils Fefers & Simons Ltd.
- 7. Van Home, James, C.: Financial Management & Policy, Prentice Inc.
- 8. Pandey, I.M.: Financial Management, Vikas Publication, 6th Rev. ed., N. Delhi.

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Objectives:

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Job Roles: Java restriction for the prostriction of the prostric

Objectives:

To make students familiar with development of console, windows and web applications using C# on .NET platform.

To improve object-oriented programming skills through practice and insights gained by studying a new programming language.

To gain a working knowledge of the C Sharp programming language and build object-oriented applications using C Sharp.

Instruct ons

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- 3. The students are required to attempt one question from each unit and the entire Compulsory Question No. 1.
- 4. All questions carry equal marks.

NI I

Introduct on to A NE NET Architecture, ASP.NET Fundamentals Compilation Modes of .Net Architecture, Understanding Client Server Architecture, Introduction To Web Technologies.

NI II

tandard c Contro s Templates in ASP. NET, Composite Data Bound Controls, Designing Website With Master Pages, Maintaining Application State, Microsoft Application Block, OOPS/COM/DLL/Assembly.

NI III

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ownership, User and ownership, Groups, Changing group ownership, File Permissions, UMASK Setting, Changing File Permission, Changing directory permissions. Bash: What is Shell? How the Shell gets Started, The most common Shells; The Bourne Shell: Command-line Completion, Wildcards, Command History, Aliases, Input2(or) Input2(or) lli;	.Pons2.7our

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Job Roles: Java Aros r_{mm} er rainee Linux A_m inistrator eb Aros r_{mm} er rainee Database a_m inistrator etwor A_m inistrator C net software eve oper yste. Ana yst of tware Quaity ensineer

b ct v s:

1. This course enables students to be familiar with Emerging Technologies such as Parallel Computing, Cloud Computing, Green Computing and Data Min2(a)47 D10(2(a)4(s)-

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Objectives. h is course wi enable he stu ents to earn he AHA and use for website eve on ent

Instruct ons

- 1. The syllabus of this paper has been divided into FOUR units.
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b ct v s:-

1. This course will enable the students to manage the network devices and configuring servers

Instruct ons nnt

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