

Syllabus Unitization & Prescribed Books (Session 2023-2024)

Department of CS & IT

Class – PGDCA-II Semester

Pattern of Question Paper -Eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

INTRODUCTION TO SCRIPTING LANGUAGES WEB DESIGNING AND USES OF INTERNET

Theory Marks: 50
Practical Marks : 50

Credits
L T P
3 0 2

Month wise Division	Syllabus Unitization
Jan-Feb	<u>SECTION-A</u> HTML Structure of HTML, Tags, Character Entities, Hyperlinks, Frames, Tables, Lists, Forms, Limitations of HTML. <u>SECTION-C</u> Internet & its Use Types of Internet Connectivity, World Wide Web, E-mail, Telnet, Filer Transfer Protocol, IRC, Virtual Reality, Web Publishing, Web Hosting.
March	<u>SECTION-B</u> Front Page 2000 Features, Creating a Web Site using Wizard, One / Two / Three Column Body, Front Page Window, Various Toolbars of Front Page, Adding Clip Art, Thumbnails, resampling an Image, Beveling & Cropping an Image, Creating Bookmarks, Adding an E-mail Hyperlink, Tables, Marquee, Counter, banner, Hover Buttons, Creating a Web Page Using a Template, Themes, Forms.
April	<u>SECTION-D</u> Internet & its Use Cyber Crime, Types of Cyber Crimes, Cookies, Virus, Trojan Horse, Worm, Danger of Virus.

Prescribed Book

Book Name – Internet Application

Author – Sandeep Sood

Publisher – AP Publisher

NETWORK CONCEPTS AND MANAGEMENT

Theory Marks: 50
Practical Marks : 50

Credits
L T P
3 0 2

Month wise Division	Syllabus Unitization
Jan-Feb	<u>SECTION-A</u> Introduction: Network H/W and Software requirement~ Network topologies, OSI reference model, TCP/IP model.Design Issues: ISDN, ATM, Routers, hub, switches. <u>SECTION-B</u> Network security: Data compression techniques, cryptography, IP addressing schemes.
March	<u>SECTION-B</u> NT administration: Account policies, creating a user account, group membership, administration of share through server manager. Primary Domain controller, backup, domain controller. <u>SECTION-C</u> Unix: Network Operating System: Architecture, Shell, Kernel & File System
April	<u>SECTION-D</u> Introduction to Linux: Comparative study of NT server, Unix and Linux.

Prescribed Book

Book Name –Network concept & Management

Author – Manik Sharma

Publisher – Kalyani Publications

E-COMMERCE / BUSINESS

Theory Marks: 50
Practical Marks : 50

Credits
L T P
3 0 2

Month wise Division	Syllabus Unitization
Jan-Feb	<p style="text-align: center;">Section–A</p> <p>E-Commerce: Its definition, aims, processes, tools and results, EDI, VANs and Internet as Promoters. Types of E-Commerce, Commerce-net Steps to Start E-Commerce. :H/W & S/W Requirements, Steps involved in opening your own online business.EDI:EDI vs Traditional Systems, EDI enabled procurement process, components of EDI system, EDI implementation issues.</p> <p style="text-align: center;">Section–B</p> <p>Concerns for E-Commerce Growth: Basic challenges to E-Commerce. Technological, Legal and regulators heads, Internet bandwidth & Technological issues. NII : Technical issues Standards & services GIL. Issues that confront us in relation to securing electronic transactions. Implementation of digital signatures. Authentication Mechanisms.Electronic cash, its elements, legal issues, risks, paper document versus Electronic document Laws for E-Commerce legal issues for internet commerce</p>
March	<p style="text-align: center;">Section–C</p> <p>Re-Engineering for Changer: Business process re-engineering BPR, methodology, Planning Methods for change to EC/EDI. Case Studies: To demonstrate usefulness of E-Commerce in various business areas Banks, Reservations, E-Governance, Supply-chain, management, manufacturing, retailing and online publishing</p>
April	<p style="text-align: center;">Section–D</p> <p>E-Commerce in India EDI service providers in India, EDI projects in the government regulatory agencies. The Internet in India, laws for E-Commerce in India.</p>

Prescribed Book

Book Name – E-Commerce

Author – Sartaj singh

Publisher – ABS

PROGRAMMING IN C

Theory Marks: 50
Practical Marks : 50

Credits
L T P
3 0 2

Month wise Division	Syllabus Unitization
Jan-Feb	<p>Section–A Fundamentals of C: Introduction of C, Data Types, Operators, their precedence, expressions and their evaluation. Input/Output Functions:Formatted I/O, Character I/O & String I/O Functions. Control Structures:Taking decisions using if, if-else, switch constructs and Conditional Operator, Description of break and continue Statements. Performing loops using for, while, do-while Constructs.</p>
March	<p>Section–A Functions: Library Functions vs User-Defined Functions, Declaring (Prototyping) and defining User-Defined functions, ways of passing parameters to functions, Recursive functions, Storage Classes. Section–B Arrays & String: What are Arrays?, Declaring arrays, initializing arrays, processing of arrays, passing arrays arguments to functions. What are Strings? How strings are handled in C? String functions, arraysof string. Pointers:What is a pointer variable? Declaring pointers, accessing values via pointers, pointer arithmetic,pointer to strings, passing arguments using pointers.</p>
April	<p>Section–C Structure and Unions.Defining a structure type, declaring variables of structure type, initializing structures. Accessing Structure Elements, Use of assignment Statement for structures, array of structures, nested structures, Unions; Declaring a Union, Accessing elements of a type union. Section–D Managing Data Files: Processing a file, Standard Input/Output, System Level I/O, File updating</p>

Prescribed Book

Book Name –Programming in C

Author – Mandeep Handa

Publisher – ABS