	LESSON PLAN
	MSc. IT LE Sem-III
	Subject- WEB TECHNOLOGY
× 1	August 2019 to November 2019
Session	Tonic
	WEEK-1:-Introductory:Internet Basics: Networks, Protocols, TCP/IP, Internet Addresses
August (Month- 1)	WEEK-2:- Ports, Sockets, Name Resolution, Firewalls, Protocol Tunneling, Proxy Servers
	WEEK-3Internet Standards, governing the web HTTP, MIME, Inside URLs, Web applications
	WEEK-4:- Overview of clients/servers web communication, comparison of web
	WEEK-1:-Web Page Designing:Introduction to markup languages;HTML: list, table, images, frames, forms
September	WEEK-2:-pages style sheets CSS;XML: DTD, XML Namespaces, XML schemes,
(Month-2)	WEEK-3:-Presenting XML with CSS and XSLT, XML-DOM, What is XHTML?
	WEEK-4:-Client Side Scripting:Java script: Introduction, documents, forms,
	statements, functions, objects
	WEEK-1: MST
	WEEK-2: MST
a /aaab-	WEEK-3: Event and event handling; Browsers and the DOM, JQuery: Syntax, Selectors,
October (Month- 3)	Events and AJAX methods. Server Side Programming: PHP: Introduction, requirements,
	PHP syntax,
	WEEK-4: data type, variables, strings, operators, if-else, control structure, switch,
	array, function, file handling, form, sending email, file upload.
November (Month-4)	WEEK-1:session/state management, error and exception, PHP Database for dynamic
	Web pages.
	WEEK-2:Introduction to Servlets: Servlet Basic Servlet Structure, Servlet
	Lifecycle, Servlet APIs. Writing thread safe Servlets. Setting Cookies and Session
	Management with Servlet API.

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SULLABUS PLAN 2019-20

Subject: Computer Graphics Subject Code: M.Sc ((IT)

	WEEK	TOPIC
	Week1	Soft Copy Devices: Touch Panel, Light Pens, Graphic Tablets, Joysticks,
AUGUST (Month-1)	Week2	Trackball, Data Glove, Digitizer, Image Scanner, Mouse, Voice Systems.
	Week3	Hard Copy Devices: Impact And Non Impact Printers, Such As Line Printers, Dot Matrix Printers,
	Week4	Laser, Ink-Jet, Electrostatic, Flatbed And Drum Plotters.
September	Week5	Video Display Devices; Refresh Cathode-Ray Tube, Raster Scan Display, Random Scan Display
(Month-2)	Week6	
(4,331112)	WeeK7	Color CRT-Monitors, Direct View Storage Tube, Flat Panel Displays, 3- D Viewing Devices, Raster Scan Systems,
	Week8	Random Scan Systems, Graphic Monitors And Workstation
October (Month-3)	Week9	Scan Conversation Algorithm Line, Circle And Ellipse,
		MID SEMESTER TEST 1
	Week10	Breshenham's Algorithm, Area Filling Techniques, Character Generation.
	Week11	2-Dimensional Graphics: Cartesian And Homogenous Co-Ordinate Systems, Geometrical Transformation
November (Month-4)	Week12	(Translation, Scaling, Rotation, Reflection, Shearing), Two Dimensional Viewing Transformation
	Week13	Clipping (Line, Polygon And Text)
	Week14	3-Dimensional Graphics: Geometrical Transformation (Translation, Scaling, Rotation, Reflection, Shearing),
	Week15	Shading Modeling Light Intensities
	Week -16	ReVISION .

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Department of Computer Science (HEIS), Government College, Ropar (2019-20) Class MSc IT Sem. 4th (LE) Subject RESEARCH METHODOLOGY(223)

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SES	SION TOPICS
Week I	Objectives and types of research: Definition and types of research (Descriptive and analytical research, applied and fundamental research, qualitative and quantitative research, conceptual and empirical research).
Week 2	Research problem formulation: Defining and formulating research problem and its necessity, selecting the problem, literature review and its importance; Primary and secondary data sources-library (books, journals, periodicals
Week 3	reference sources, abstracting and indexing sources, reviews, monographs), patents, web (search engines, online libraries, online journals, e-books, e-encyclopedia, institutional websites); Journals and books-standards of research journals (impact factor, ISSN, ISBN, online and print journals, indexed journals, peer reviewed journals), citation index, II-index; Identifying gaps areas from literature review.
Week 4	Research design and methods: Developing the research hypothesis; Research design – basic principles and need,
Week 5	Reporting and thesis writing: Structure and components of research report, types of report-monographs, review articles, research papers, thesis, books, technical reports and their significance;
Week 6	Important concepts; Observations and facts, laws and theories, prediction and explanation, induction, deduction; Development of models, developing a research plan, exploration, description, diagnosis, experimentation
Week 7	Data collection: Execution of research, observation and collection of data, methods of data collection, primary data, secondary data.
Week 8	Mid semester Test
Week 9	Mid semester Test
Week 10	Presentation of research papers: Poster presentations-layout and format; Oral presentation- planning, preparation, use of visual art, importance of effective communication.
Week 11	Different steps in preparation of a written scientific document- layout, structure and language of reports, illustrations and tables, bibliography, references, footnotes
Week 12	Application of intellectual property rights: Commercialization, copyright, royalty, intellectual property rights and patent law
Week 13	Plagiarism-concept and authentication of originality of research; Citation and acknowledgement; Reproducibility and accountability

Week 14	Cost analysis of project: Cost incurred on raw materials, different testing procedures, cost of instrumentation, downstream processing cost (wherever required); Cost of clinical trials
Week 15	Research grants: National/International funding agencies; Government and private bodies.
Week 16	Documentation: Techniques and importance of documentation; Role of internet, information technology and computers in research and documentation

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	LESSON PLAN
	MSc. IT Sem-IV
	Subject- LINUX
	January 2020 to April 2020
Month	Topic
anuary (Month-1)	WEUK-4:Introduction: Overview of Linux, Linux's History, Advantages of Linux, Minimum System Requirements: Installing Linux: Choosing Text or Graphics Installation, Setting up your Hard Drive, Understanding the Swap Space
	WEEK-1: Creating the Linux File-system partition, Setting up the mouse, root password and Ethernet, Configuration X, Selecting packages to Install, Creating the Boot Disk. Using LILO boot manager: Installing LILO, LILO make-file, Updating LILO, Removing or Disabling LILO, Troubleshooting LILO. The Boot Process, Startup Scripts, Shutdown, Halt and reboot,
February (Month-	WEEK-2:Creating a New Login, Virtual Terminals, Running as root. Basic Linux Commands: How Linux Commands Work, Command Options & Parameters, Input and Output Redirection, Mian pages, Wildeards: and?, Environment Variables, The process status Commands: ps, termination command: kill, the su command, the grep command. Linux File System: Common types of files, filenames, Inodes, The root directory,
. 2)	WEEK-3 How directories are named, Navigating the Linux file System: pwd command, Absolute and relative filenames; cd command, Creating and Deleting files: Cat, Creating Directories, Moving and Copying files, Moving Directories, Removing files and directories, Important directories in the Linux file System: /, /home, /bin, /usr, /usr/spool, /dev, /sbin, /etc.
	WEEK-4: File and Directory 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;
March (Month-3)	WEEK-1:-Shell Scripting: Creating and Executing Shell Programs, Using variables: Assigning a value to a variable, Accessing the value of a variable, Positional Parameters and other Built-In Shell Variables; Special Characters
	WEEK-2:Conditional Statements: if Statement, case Statement; Iteration Statements: for Statement, while Statement, until Statement, shift Command, select Statement, repeat Statement, Functions. Editing and Typesetting: Text Editors vi, The vi Editor, Starting vi, vi modes,
	WEEK-3:Inserting Text, Quitting vi, Moving the Cursor, Deleting Text, Copying and Moving Text, Searching a Replacing Text, Setting Preferences. Configuring the X Window: Xfree86 Software Distribution, Choosing an X Server, Installing Xfree86 Manual Installing Xfree86 using a Script, Path Environment Variable; Configuring Xfree86; The xconfig and XF86Cor Files in Detail: Pathnames, Keyboard Setting, Mouse Definition, Monitor Model, Video Cards, The Xfree86 Server, Testing Xfree86 Configurations, The .xinitro File.
	WEEK-4: MST
	WEEK-1:Linux for System Administrators: System Administration Basics, The root Account, Starting and Stopping the System, Booting from a Floppy, Using LILO to Boot, Shutting Down Linux; Mounting File System; Mounting a Floppy, CD-ROM, Creating a New file System, Un-mounting file Systems, Backup and restore Compressing files with gzip, Using tar and cplo;
April (Month-4	WEEK-2:Setting up your System: Setting the System Name, Using a Maintenance Disk, Forgetting the ro Password, Setting the Login Message. Networking & Network Services: What is TCP/IP? IP Address, Port Sockets, Subnets, Routing, Hardware Requirements, Configuring the Network, Configuration Files, Testi Troubleshooting, The netstart Command, ping, traceroute, Mail, News, NFS, www, FTP, Teinet, DNS. Ne Security: Firewalls.

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