

Lesson Plan for the Month August2022 to December 2022		Subject : DBMS	
Name of the Teacher	Amit Khirbat	Class	PGDCA
07-10-2022 To 15-10-2022	Database system architecture: Data Abstraction, Data Independence, Data Definition Language (DDL), Data Manipulation Language (DML)		
17-10-2022 To 21-10-2022	Data models: Entity-relationship model, network model		
22-10-2022 To 30-10-2022	relational and object oriented data models, Integrity constraints, data manipulation operations.		
31-10-2022 To 05-11-2022	Relational query languages: Relational algebra, Tuple and domain relational calculus, SQL3,DDL and DML constructs,		
07-11-2022 To 12-11-2022	Open source and Commercial DBMS – MYSQL, ORACLE, DB2, SQL server. Relational database design: Domain and data dependency, Armstrong’s axioms, Normal forms, Dependency preservation, Lossless design.		
14-11-2022 To 19-11-2022	Query processing and optimization: Evaluation of relational algebra expressions, Query equivalence, Join strategies, Query optimization algorithms.		
21-11-2022 To 26-11-2022	Transaction processing: Concurrency control, ACID property, Serializability of scheduling,		
28-11-2022 To 03-12-2022	Locking and timestamp based schedulers, Multi-version and optimistic		
05-12-2022 To 10-12-2022	Concurrency Control schemes, Database recovery.		
12-12-2022 To 17-12-2022	Database Security: Authentication, Authorization and access control, DAC, MAC and RBAC models, Intrusion detection, SQL injection.		
19-12-2022 To 23-12-2022	Advanced topics: Object oriented and object relational databases, Logical databases, Web databases, Distributed databases, Data warehousing and data mining.		

Lesson Plan for the Month August2022 to December 2022		Subject : Fund. of Web Designing	
Name of the Teacher	Amit Khirbat	Class	PGDCA
07-10-2022 To 15-10-2022	Introduction to Web programming – Introduction to SGML features – HTML, XHTML,		
17-10-2022 To 21-10-2022	DHTML, XML – HTML Vs XML – Creating XML documents – Parsing an XML documents writing well –formed documents		
22-10-2022 To 30-10-2022	organizing elements with namespaces- defining elements in a DTD- declaring elements and attributes in a DTF, overview of HTML-basic formatting tags- heading, paragraph,		
31-10-2022 To 05-11-2022	- underline break, bold, italic, underline, superscript, subscript, font and image, Attributes- align, color bgcolor font face, border size navigation links using anchor tag- internal, external, mail and image links, Lists- ordered, unordered and definition,		
07-11-2022 To 12-11-2022	table tag, html forms controls- forms, text password, text area, button, checkbox, radio button, select box, hidden controls		
14-11-2022 To 19-11-2022	Cascading Style Sheets: Introduction, Inline, internal, external CSS, Linking CSS to web page, client-side programming, Introduction to java script, basic syntax, variables and data types, statements, operators, literals,		
21-11-2022 To 26-11-2022	functions, objects, arrays, XML; Relation between XML and HTML, goals of XML, Structure and syntax of XML, Well formed XML,		
28-11-2022 To 03-12-2022	DTD and its structure, tree structures in data organization, searching with XPath		
05-12-2022 To 10-12-2022	Web Application and Information Gathering: HTTP request, response, header fields and HTTPS, understanding same origin, sessions, web application proxies, web server- role, apache web server- Introduction- architecture-Features,		
12-12-2022 To 17-12-2022	Apache role in internet, LAMP, WAMP, Installation and configuration, build and install apache web server, verify initial configuration start, stop and status the apache server process		
19-12-2022 To 23-12-2022	Server side programming- Server side scripts, PHP, designing dynamic web pages using PHP, defining PHP variables, variable types, operators, controls, control flow constructs in PHP, passing form data between pages, establishing connections with MYSQL database, managing database		

Lesson Plan for the Month August2022 to December 2022		Subject : Basic of Computers	
Name of the Teacher	Amit Khirbat	Class	B.Sc. 1 st sem
16-08-2022 To 20-08-2022	Computer Fundamentals : Generation of computers, Definition, Block Diagram along with its components & classification of computers,		
22-08-2022 To 27-08-2022	Limitations of Computers, Human Being Vs computer, Applications of computers in various fields.		
29-08-2022 To 3-09-2022	Number System : Definition of Number system, necessity of binary number system, binary decimal, octal		
05-09-2022 To 010-09-2022	hexadecimal number system, inter conversion of numbers.		
12-09-2022 To 17-09-2022	Input/ Output Devices: Hard copy devices, memory & mass storage devices: characteristics of memory system, types of memory		
19-09-2022 To 24-09-2022	RAM, ROM, magnetic, floppy disk, hard disk; optical disks; magnetic tapes; concepts of virtual and cache memory Software concepts: Introduction types of software- system and application software; overview of operating system;		
26-09-2022 To 01-10-2022	definition, functions of operating system, concept of multiprogramming		
3-10-2022 To 8-10-2022	multitasking, multiprocessing, time sharing, real time, single user and multiuser operating system		
10-10-2022 To 15-10-2022	Overview of Networking: A introduction to computer networking. Network types (LAN, WAN, MAN),		
17-10-2022 To 21-10-2022	Network topologies, modes of data transmission. Forms of data transmission, transmission channels (media)		
22-10-2022 To 30-10-2022	Introduction to internet and its uses, application of internet, Hardware and software requirements for internet,		
31-10-2022 To 05-11-2022	Applications of internet		
07-11-2022 To 12-11-2022	MS Word: Introduction to word processing interface, toolbars, menus, creating and editing documents, formatting documents, finding and replacing text		
14-11-2022 To 19-11-2022	text, auto correct, spelling and grammar tool, format painter, header and footer, macro, mail merge.		
21-11-2022 To 26-11-2022	MS Excel : Introduction to MS-excel, cell, cell address, creating and editing worksheet, formatting and essential operations, moving and copying data in excel		
28-11-2022 To 03-12-2022	formulas, Pivot table, Pivot chart, linking and consolidation, sorting, filtering, validation, conditional formatting		
05-12-2022 To 10-12-2022	MS PowerPoint : Presentations, Creating, Manipulating & Enhancing slides, organizational charts, animations		
12-12-2022 To 17-12-2022	and sounds, inserting animated pictures or accessing through object		

Week	Topic
16-8-22 to 20-8-22	Basic concepts- Data, information, Records and files Introduction to Internet
22-8-22 to 27-8-22	Traditional file based system Benefits of Internet, WWW

Month: Sept, 2022

Week	Topic
29-08-22 to 03-09-22	File based approach, Limitations of file based approach Hardware and software requirement for internet
05-09-22 to 10-09- 22	Database approach- Char of database approach Internet Protocol, applications of internet
12-09-22 to 17-09- 22	DBMS Intenet Tools, Telnet, FTP, Gopher
19-09-22 to 24-09- 22	Components of DBMS Archie Veronica, Mosaic, WAIS
26-09-22 to 01-10- 22	Environment of DBMS IRC, Online chatting

Month: Oct, 2022

Week	Topic
03-10-22 to 08-10- 22	Functions of DBMS, Advantages and disadvantages Messaging and Conferencing concept
10-10-22 to 15-10- 22	Classification of Data base management system Resources of internet
17-10-22 to 21-10- 22	Role in the Database environment Email mailing list
22-10-22 to 30-10- 22	Database administrator Internet addressing
31-10-22 to 05-11- 22	Client Server technology ISP

Month: Nov, 2022

Week	Topic
07-11-22 to 12-11-22	Database system architecture Internet in India- shell account,
14-11-22 to 19-11-22	Three level of architecture, Schemaas TCP/IP account, Home page and web site
21-11-22 to 26-11-22	Mapping and Instances, Data Independence, Data Models Internet security problems and solution
28-11-22 to 30-11-22	Object based Data Models, Physical data model and conceptual modeling, Hierarchical, network model Overview of Intranet and its applications, Web Browsers, Search engines

Month: **Dec, 2022**

Week	Topic
05-12-22 to 10-12-22	Network and relational model Categories of search engines, searching criterion, surfing the net, hypertext transfer protocol, URL
12-12-22 to 17-12-22	E R model- Entity types, entity set, attributes and keys HTML, Internet language Relationship set role name & recursive relationship and structural constraints, Create a web page
19-12-22 to 24-12-22	Conceptual design using ER diagram, Relational data model: Introduction, properties of relation Linking to other web pages Integrity constraints over relations, Functional dependencies Publishing HTML pages, text alignment and list
26-12-22 to 31-12-22	Revision