LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Chanchal & Jyoti
Class- BCA 1st sem
Subject-Web Development-I

WEEKS	SYLLABUS
Week1	Evolution and History of World Wide Web; Basic features; the evolution of Web development; Web Servers; Hypertext Transfer Protocol; URLs; IP Addresses; Domain Names
Week2	Searching and Web- Casting Techniques; Search Engines and Search Tools; Internet Security; The Web Programmers;
Week3	Toolbox. Introduction to Web Technologies; Introduction to HTML, CSS, and JavaScript, Introduction to Client-Side vs. Server- Side Scripting;
Week4	Hosting your Site; Internet Service Provider; Planning and designing your Web Site; Steps for developing your Site,Test
Week5	Choosing the contents; Home Page; Domain Names; Creating a Website and the Markup Languages (HTML, DHTML);
Week6	Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML command Tags; Creating Links; Headers
Week7	Text styles; Text Structuring; Text colors and Background; Formatting text; Page layouts; Lists, Tables;
Week8	meta element; New HTML5 Form input Types; input and data list elements; auto complete Attribute; Page-Structure Elements; Introduction to DHTML and its features,Test
Week9	CGI; Features of Java; Java Script; Features of ASP; VBScript; Macromedia Flash; Macromedia Dreamweaver
Week10	The JavaScript execution environment; The Document Object Model ; Element access in JavaScript; Events and event handling, Handling events from the Body elements, Button elements,
Week11	Text box, and Password elements ; The DOM 2 event model ; The navigator object ; DOM tree traversal and modification;
Week12	Introduction to CSS, Block and Inline Elements, Inline Styles, using internal CSS, using external CSS, How CSS rules cascade, inheritance, why use external style sheets? ,Test
Week13	CSS3 Basics: CSS selectors, color: foreground color, background color, contrast, opacity; text: Typeface terminology, Specifying Typefaces, fonts; list tables and forms: list-style, table properties, styling forms, styling text input, Test

Week14	Layout: key concepts in positioning elements, controlling the position of elements: relative positioning, absolute positioning, fixed positioning, z-index
Week15	Float, clear, creating multi column layout with float, fixed width layout, liquid layout
Week16	layout grids, Images: controlling size of images in CSS,TEST of all syllabus
Week 17	Aligning images using CSS, centering images using CSS, background images, gradients, Media Queries, Test

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Nalini
Class- 1st Sem
Subject- Multidisciplinary Course

WEEKS	SYLLABUS
Week1	**Introduction**: Historical evolution of computers,Classification of computers, Block Diagram along its components and characteristics,
Week2	Usefulness of Computers. Human being Vs. Computer, Applications of computers in various fields.
Week3	**Input/Output Devices**: Keyboards, mouse, joysticks, trackballs, digitizer, voice-recognition, optical-recognition
Week4	Scanners, terminals, point-of-sale terminals, machine-vision systems, Printer & its types
Week5	**Memory & Mass Storage Devices**: Characteristics of memory systems, types of memory, RAM, ROM, magnetic disks-floppy disk, hard-disk;
Week6	Optical disks; Magnetic tapes; Concepts of Virtual and Cache memory
Week7	**Operating System:** Functions, Measuring System Performance, Assemblers, Compilers and Interpreters
Week8	Batch Processing, Multiprogramming, Multi Tasking, Multiprocessing, Time Sharing, DOS, Windows, Unix/Linux.
Week9	**Data Communication:** Communication Process, Data Transmission speed, Communication Types (modes), Data Transmission Medias, Modem and its working, characteristics
Week10	Types of Networks, LAN topologies, Computer Protocols, Concepts relating to networking.
Week11	**Internet:** Introduction to Internet, WWW and Web Browsers; Applications of Internet; connecting to internet; What is ISP?

Week12	**Internet:** Introduction to Internet, WWW and Web Browsers; Applications of Internet; connecting to internet; What is ISP?; Search Engines; Understanding URL; Domain name; IP Address; Web page, Website and home page.
Week13	**Electronic Mail:** Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses, message components, message composition, Web Browsers and search engines.
Week14	**Business Data Processing:** Introduction, data storage hierarchy, Method of organizing data, File Types, File Organization, File Utilities.
Week15	Revision of whole syllabus
Week16	Revision of whole syllabus

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Tanu Batra
Class- 1st Sem
Subject- Multidisciplinary Course

WEEKS	SYLLABUS
Week1	**Introduction**: Historical evolution of computers,Classification of computers, Block Diagram along its components and characteristics,
Week2	Usefulness of Computers. Human being Vs. Computer, Applications of computers in various fields.
Week3	**Input/Output Devices**: Keyboards, mouse, joysticks, trackballs, digitizer, voice-recognition, optical-recognition
Week4	Scanners, terminals, point-of-sale terminals, machine-vision systems, Printer & its types
Week5	**Memory & Mass Storage Devices**: Characteristics of memory systems, types of memory, RAM, ROM, magnetic disks-floppy disk, hard-disk;
Week6	Optical disks; Magnetic tapes; Concepts of Virtual and Cache memory
Week7	**Operating System:** Functions, Measuring System Performance, Assemblers, Compilers and Interpreters
Week8	Batch Processing, Multiprogramming, Multi Tasking, Multiprocessing, Time Sharing, DOS, Windows, Unix/Linux.
Week9	**Data Communication:** Communication Process, Data Transmission speed, Communication Types (modes), Data Transmission Medias, Modem and its working, characteristics
Week10	Types of Networks, LAN topologies, Computer Protocols, Concepts relating to networking.

Week11	**Internet:** Introduction to Internet, WWW and Web Browsers; Applications of Internet; connecting to internet; What is ISP?
Week12	**Internet:** Introduction to Internet, WWW and Web Browsers; Applications of Internet; connecting to internet; What is ISP?; Search Engines; Understanding URL; Domain name; IP Address; Web page, Website and home page.
Week13	**Electronic Mail:** Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses, message components, message composition, Web Browsers and search engines.
Week14	**Business Data Processing:** Introduction, data storage hierarchy, Method of organizing data, File Types, File Organization, File Utilities.
Week15	Revision of whole syllabus
Week16	Revision of whole syllabus

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Nalini
Class- 1st Sem
Subject- Value Added Course under NEP

WEEKS	SYLLABUS
Week1	Introduction & Evolution of Digital Systems: Role & Significance of Digital Technology; Information and Communication Technology (ICT) & Tools
Week2	Computer System &its working, Software and its types
Week3	Operating Systems: Types and Functions. Problem Solving: Algorithms and Flowcharts
Week4	Communication Systems: Principles, Model & Transmission Media
Week5	Computer Networks & Internet: Concepts & Applications, WWW, Web Browsers, Search Engines
Week6	Messaging, Email, Social Networking. Computer Based Information System: Significance & Types.
Week7	E-commerce & Digital Marketing: Basic Concepts, Benefits & Challenges
Week8	Emerging Technologiesand their applications:Overview of Artificial Intelligence, Machine Learning
Week9	Deep Learning; Big Data, Data Science and Big Data Analytics; Internet of Things (IoT) and Industrial Internet of Things (IIoT),
Week10	Robotics and 3D Printing; Blockchain Technology; Quantum Computing; Cloud computing and its service models
Week11	Digital India & e-Governance: Initiatives, Infrastructure, Services and Empowerment.
Week12	Digital Financial Tools: Unified Payment Interface, AadharEnabled Payment System, USSD, Credit / Debit Cards,
Week13	e-Wallets, Internet Banking, NEFT/RTGS and IMPS, Online Bill Payment and POS.
Week14	Cyber Security: Threats, Significance, Challenges, Precautions, Safety Measures and Tools.

Week15	REVISION OF WHOLE SYLLABUS
Week16	REVISION OF WHOLE SYLLABUS

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Tanu Batra
Class-
Subject- Value Added Course under NEP

WEEKS	SYLLABUS
Week1	Introduction & Evolution of Digital Systems: Role & Significance of Digital Technology; Information and Communication Technology (ICT) & Tools
Week2	Computer System &its working, Software and its types
Week3	Operating Systems: Types and Functions. Problem Solving: Algorithms and Flowcharts
Week4	Communication Systems: Principles, Model & Transmission Media
Week5	Computer Networks & Internet: Concepts & Applications, WWW, Web Browsers, Search Engines
Week6	Messaging, Email, Social Networking. Computer Based Information System: Significance & Types.
Week7	E-commerce & Digital Marketing: Basic Concepts, Benefits & Challenges
Week8	Emerging Technologiesand their applications:Overview of Artificial Intelligence, Machine Learning
Week9	Deep Learning; Big Data, Data Science and Big Data Analytics; Internet of Things (IoT) and Industrial Internet of Things (IIoT),
Week10	Robotics and 3D Printing; Blockchain Technology; Quantum Computing; Cloud computing and its service models
Week11	Digital India & e-Governance: Initiatives, Infrastructure, Services and Empowerment.
Week12	Digital Financial Tools: Unified Payment Interface, AadharEnabled Payment System, USSD, Credit / Debit Cards,
Week13	e-Wallets, Internet Banking, NEFT/RTGS and IMPS, Online Bill Payment and POS.
Week14	Cyber Security: Threats, Significance, Challenges, Precautions, Safety Measures and Tools.
Week15	REVISION OF WHOLE SYLLABUS
Week16	REVISION OF WHOLE SYLLABUS

LessonPlan(July 2024 to Nov. 2024)

NameofAssistant/AssociateProfessor:**Dr. Maninder**
ClassandSection:**B.Com3rdSEM**
Subject:**BasicsofInformationTechnology.**Paper:**BCH-3-06**

FirstWeek: Essentialsof Computers: Concept of data, informationand data processing, Levels or type of Information.
Second Week: Uses of information, Business data Processing Cycle, Methods of data processing, Application of Electronic data processing.
Third Week: Memory and Mass Storage Devices: Introduction of Memory System, Types of Memory-Primary and Secondary Memory, RAM and ROM, Types of Secondary Storage Devices.
Fourth week: Software Concepts: Types of Software and their role, System Languages and Translators, Functions and Types an Operating System.
Fifthweek:DataCommunications:BasicelementsofaCommunicationSystem,FormsofData Transmission, Data transmission speed.
Sixth week: Modes of Data Transmission: Analog and Digital data transmissions, Data Transmission Media; Wire Cables, Microwave, Fiber-optics, Communication Satellites.
Seventh week Emerging Trends in IT: Electronic Commerce(E-Commerce), Types of E-Commerce, Advantages and Disadvantages of E-commerce, Application of E-commerce, process in e- commerce, Types of an Electronic Payment System, Security issues in E-commerce, Security
Eighth week Schemes; Electronic data Interchange (EDI); Mobile communication, Bluetooth Communication, Infrared communication, Smart Card.
Ninth week: Computer Networks: Introduction to Computer Network, Types of Network; Local Area Network, Wide Area Network, Types of Public and Private Network, Network Topology.
Tenth week: Internet and its Application, History of Internet, Benefits of Internet, ISP, Internet Accounts,
Eleventh week: Internet Addressing, Information Technology: Impact of IT on Business environment.
Twelfthweek: Applications of IT. Multimedia: Concept of Multimedia, Multimedia Components, Multimedia Applications.
Thirteenth week: Presentation with Power- Point: Features of Power-point, Creating presentation the easy way.
Fourteenthweek: Workingwithdifferentviews,workingwithgraphicsinPowerPoint.
Fifteenweek: SoundeffectsandAnimationseffects,PrintinginPower-point.
Sixteenth week: Introduction to Accounting Packages-Tally: Features of Tally, Preparation of Vouchers.
Seventeenthweek:Salarystatement,MaintainingofInventoryrecords.
Eighteenth week: Maintenance of Accounting Books and final Accounts, Generating and Printing reports.
Nineteenthweek:Revision,queryandtest

Lesson Planfrom (July 2024 to Nov. 2024)

NameofAssistant/AssociateProfessor:**Dr. Neeru**
ClassandSection:**B.Sc5thSEM**
Subject:**Databasemanagement&Internet.**Paper:**5.1&5.2**

B.Sc5th Sem–Paper-5.1:DatabaseManagementSystem.Paper-5.2: Introduction to Internet and Web Technologies.

First Week: Basic Concepts – Data, Information, Records and files. Traditional file – based Systems-File Based Approach-Limitations of File Based Approach, Database Approach-Characteristics of Database Approach, Database Management System (DBMS).

Second Week: Introduction to Internet, Benefits of Internet, WWW, Hardware and software requirement for internet, internet protocols, applications of internet.

Third Week: Components of DBMS Environment, DBMS Functions, Advantages and Disadvantages of DBMS. Classification of Database Management System. Roles in the Database Environment - Data and Database Administrator.

Fourth week: Internet Tools- Telnet, FTP, Gopher, Archie, Veronica, Mosaic, WAIS, IRC, Online Chatting, Messaging, and Conferencing Concepts, resources of internet.

Fifth week: Centralized and Client Server architecture to DBMS. Database System Architecture – Three Levels of Architecture, External, Conceptual and Internal Levels, Schemas, Mappings and Instances.

Sixth week: E-Mail mailing lists, Internet addressing, internet service provider (ISP), internet in India-Shell account, TCP/IP account, Home page and Web Site, internet accessing, internet terminology, internet security problems and solutions.

Seventh week: Data Independence – Logical and Physical Data Independence. Data Models: Records-based Data Models, Object-based Data Models, Physical Data Models and Conceptual Modeling. Hierarchical, network and relational model.

Eighth week: Overview of Intranet and its applications, Web Browsers, Search Engines, Categories of Search Engines, Searching Criterion, Surfing the Net, Hypertext Transfer Protocol (HTTP), URL.

Ninthweek: Entity-RelationshipModel–EntityTypes,EntitySets,Attributesandkeys,Relationship, relationship sets, Role name & recursive relationship and structural constraints, Conceptual design using E-R Diagrams.

Tenthweek: HTML:Internet Language, UnderstandingHTML,CreateaWebPage,LinkingtootherWeb Pages, Publishing HTML Pages.

Eleventh week: Relational Data Model:-Introduction, Properties of Relations, Keys, Integrity Constraints overRelations, Views. Relational DatabaseDesign: Functional Dependencies, Normalization: 1st to3rd Normal Form, BCNF, Lossless Join and Dependency preserving decomposition.

Twelfth week : Text Alignment and Lists, Text Formatting Fonts Control, E-mail Links and link within a Page, Creating HTML Forms.

Thirteenthweek: SQL: Types& componentsof SQL, DataDefinitionanddatatypes, Datadefinition commands

Fourteenth week: Data manipulation commands, Data Control Commands Specifying Constraints(Primary Constraint,. Foreign key, Unique, Not Null) in SQL, Schema.

Fifteenweek: CreatingWebPageGraphics, PuttingGraphicsonaWebPage, Custom Backgroundsand Colors, Creating Animated Graphics.

Sixteenth week:. Basic Queries in SQL, Insert, Delete and Update operations. Inbuilt Date, String functions. Commit, Rollback, Save points. Views: Introduction, Advantages of creating views, Features, Destroying/ Altering table & Views.

Seventeenthweek:WebPageDesignandlayout,AdvancedLayoutwithTables,UsingStyleSheets.

Eighteenthweek:Assignmentsandgroupdiscussion.

Nineteenthweek:Revision,queryandtest

LessonPlanfrom(July 2024 to Nov. 2024)

NameofAssistant/AssociateProfessor:**Dr.Madhuri**
ClassandSection:**B.Scmats (hons.)3rdSEM**
Subject:**DatabaseManagementSystemandOracle,**Paper:**BHM236**

B.ScMaths (Hons) 3 rdSem–DatabaseManagement SystemandOracle
Code:BHM236
FirstWeek: BasicConcepts: FilesystemsvsDBMS,advantagesanddisadvantagesof DBMS.
SecondWeek:objectivesofadatabase.Databasesystemsconceptsandarchitecture.
ThirdWeek:DataModelingforadatabase:recordsandfiles,abstractionanddataintegration.
Fourthweek:DatabaseManagementSystem:Relational,Network,andHierarchical.
Fifthweek:RelationalDataManipulations:RelationalAlgebra,RelationalCalculus,SQL.
Sixthweek: Relational Database Design: Functional dependencies, Finding keys; 1st to 3rd NFs, CNF, LossessJoinandDependencypreservingdecomposition
Seventhweek: Query Processing: General strategies for query processing, query optimization, query processor.
Eighthweek:Test+Databasesecurityissuesandrecoverytechniques
Ninthweek: Introduction to Oracle: Modules of Oracle, Invoking SQLPLUS, Data types, Data Constraints
Tenthweek:Test+Operators,Datamanipulation:Create,Modify,Insert,DeleteandUpdate; Searching,MatchingandOracleFunctions
Eleventhweek:Test + SQL*Forms: Form Construction, user-defined form, multiple-record form, Master-detailform.PL/SQLBlocksinSQL*Forms
Twelfthweek:PL/SQLsyntax,Datatypes,PL/SQLfunctions.
Thirteenthweek:ErrorhandlinginPL/SQL,packagefunctions,packageprocedures,Oracletransactions.
Fourteenthweek:TestSQL*ReportWriter:Selectivedumpreport,Master-detailReport
Fifteenweek:Control-breakReport,Testreport.
Sixteenthweek:Test+DatabaseTriggers:Use&typeofdatabaseTriggers
Seventeenthweek:Test+DatabaseTriggersVsSQL*Forms,DatabaseTriggersVs.DeclarativeIntegrity Constraints.
Eighteenthweek:BEFOREvsAFTERTriggerCombinations,CreatingaTrigger,DroppingaTrigger.
Nineteenthweek:Revision,queryandtest

LESSONPLANFROM(July 2024 to Nov. 2024)

NAME- Dr. Anil Saini

CLASS- BCA 3RD SEM
SUBJECT- DATASTRUCTURE

PAPER- BCA-202

Week1 Introduction:Elementarydataorganization,DataStructuredefinition
Week2 Datatypevs.datastructure,Categoriesofdatastructures,Datastructureoperations, **Week 3** Applications of data structures, Algorithms complexity and time-space tradeoff, **Week 4** Big-O Notataion. Strings: Introduction, Storing strings, String operations
Week5 Pattern matchingalgorithms, Arrays: Introduction, Lineararrays,Representationof lineararrayinmemory.
Week6 Addresscalculations,Traversal,Insertions,Deletioninanarray,
Week7 Multidimensionalarrays,Parallelarrays,Sparsearrays.,
Week 8 Linked List: Introduction, Array vs. linked list Representation of linked lists in memory, Traversal.
Week 9 Insertion Deletion Searching in a linked list Header linked list, Circular linked list Two-waylinkedlist,
Week10 Threadedlists,Garbagecollection,Applicationsoflinkedlists,,
Week11 Stack:Introduction,Arrayandlinkedrepresentationofstacks,Operationsonstacks.
Week12 Applicationsofstacks:Polishnotation,Recursion.Queues:Introduction
Week 13 Array and linked representation of queues, Operations on queues,
Week 14 Deques, Priority Queues, Applications of queues.
Week15 Tree:Introduction,Definition,RepresentingBinarytreeinmemory,
Week16 Traversingbinarytrees,Traversalalgorithmsusingstacks.
Week17 Graph:Introduction,Graphtheoryterminology,
Week18-19 Sequentialandlinkedrepresentationofgraphs.REVISION.

LessonPlan(July 2024 to Nov. 2024)

NameofAssistant/AssociateProfessor**:Dr.Maninder**
ClassandSection:**BCA-VSemSEC.A&B**
Subject:Paper:**ComputerGraphics(BCA302)**

Week1 GraphicsPrimitives Introductiontocomputergraphics,BasicsofGraphicssystems
Week2 Application areas of Computer Graphics, **O**verviewof graphics systems, video-display devices**Week3**raster-scan systems, randomscan systems graphics monitors and workstations and input devices. **Week4OutputPrimitives**:Pointsandlines,linedrawingalgorithmsmid-pointcircleandellipsealgorithms **Week5**Filled area primitives: Scan linepolygon fill algorithm boundary fill and floodfillalgorithms **Week.6** **2-D** **Geometrical** **Transforms**: Translation, scaling, rotation, reflection and shear transformations. **Week7**matrixrepresentationsandhomogeneouscoordinates,compositetransforms, transformations between coordinate systems
Week82-DViewing:Theviewingpipeline,viewingcoordinatereferenceframe
Week9windowtoviewport coordinatetransformation, viewingfunctions Cohen-SutherlandandCyrus- beck line clipping algorithms
Week10 Sutherland–Hodgemanpolygonclippingalgorithm.Revisionandtest
Week113-DGeometricTransformations:Translation,rotation,scaling,reflectionandshear transformations, composite transformations
Week123-DViewing:Viewingpipeline,viewingcoordinates,viewvolume
Week13generalprojectiontransformsandclipping.Revisionandtest.
Week143-DObjectRepresentation:Polygonsurfaces
Week15quadricsurfaces,splinerepresentation
Week16 Hermitecurve,Beziercurve
Week17B-Splinecurves, BezierandB-Splinesurfaces
Week18 Basicilluminationmodels,polygon-renderingmethods.Revision andtest.
Week19 Syllabusrelatedqueries

LessonPlan(July 2024 to Nov. 2024)

NameofAssistantProfessor:Dr.GeetaDalal,Mrs.Sujata
Class:BCA5thSem
Subject:BCA–301:MANAGEMENTINFORMATIONSYSTEM

Week1:IntroductiontosystemandBasicSystemConcepts
Week2: TypesofSystems
Week3: TheSystemsApproach,InformationSystem:Definition,EDP/MIS/DSS
Week4: Test+Characteristics,Typesofinformation
Week5: Role of Information in Decision-Making, Sub-Systems of an Information system EDPandMISmanagementlevels
Week6: Test+Systemdesign
Week7: Systemdesign
Week8: Test+DevelopingInformationSystems:Analysis
Week9: Test+Implementation&Evaluation
Week10: Implementation&Evaluation,PitfallsinMISDevelopment
Week11: Test+FunctionalMIS:AStudyofPersonnel,FinancialandproductionMIS
Week12: Introductiontoe-businesssystems,ecommerce
Week13: Test+technologies,applications
Week14: Test+Decisionsupportsystems–supportsystemsforplanning
Week15:controlanddecision-making
Week16: Decisionmaking
Week17:Test,Assignments
Week18:Planning,ControlDecisionMakin
gWeek19: Revision,query,assignmentsandtest

LessonPlanJuly 2024 to Nov. 2024

NameofAssistant/AssociateProfessor:Dr. Vandana
Class and Section: BCA 3rd sem
Subject:
DatabaseSystem
Paper: BCA- 203

Week1: Data,Information,Recordsandfiles.FileBasedApproach&its Limitations.
Week2: Characteristics of Database Approach, advantages & disadvantages of database system.
Week 3: IntroductionofdatabaseSystem&DBMS,ComponentsofdatabasesystemDBMS.
Week4:DBMSFunctions&users,AdvantagesandDisadvantagesofDBMS,DBMSlanguages.
Week5: DataandDatabaseAdministrator,D/bDesigners,ApplicationsDevelopers&Users.
Week6: ThreeLevelsofArchitecture,External,ConceptualandInternal Levels.
Week7: Schemas,MappingsandInstances.
Week8: DataIndependence–LogicalandPhysical DataIndependence.
Week9: ClassificationofDBMS,CentralizedandClientServerarchitecturetoDBMS.
Week10: Records-basedDataModels,Object-basedDataModels.
Week11: PhysicalDataModelsandConceptualModeling.
Week12: EntityTypes,EntitySets,AttributesRelationshipTypes.
Week13: RelationshipInstancesandERDiagrams,abstractionandintegration.
Week14: BasicConceptsofHierarchicalandNetworkDataModel,RelationalDataModel.
Week15: DatabaseRelations,PropertiesofRelations,Keys,Domains.
Week 16: Integrity Constraints over Relations,Relational algebra,Relational calculus,Functional dependencies.
Week17: Modification anomalies, Ist to 3rd NFs, BCNF, 4th and 5th NFs, Computing closures of set FDs.
Week18:SQL:Datatypes,BasicQueriesinSQL,Insert,DeleteandUpdateStatements,ViewsinSQL, Strategiesofqueryprocessing.
Week 19: Query optimization, query processor, Concept of security, concurrency and recovery.
Assignments ,test,Revision

LessonPlan **July 2024 to Nov. 2024**

NameofAssistant/AssociateProfessor:Dr.AnilKumar

Class and Section: BBA-V SEM
Subject:Paper:ComputerNetwork&Internet(BBA504)

Week1 Introductiontonetwork
Week2advantagesanddisadvantagesofnetwork,
Week3networktopologies,
Week4analoganddigitalsignal,analoganddigitaltransmission
Week5OSImodelandTCP/IPmodel,
Week6protocolsandtheirclassification
Week7flowcontrolandcryptography,ranking
Week8 RevisionClassTest
Week9 Assignment
Week10 Overviewofinternet,internetserviceprovider
Week11settingwindowsenvironmentfordialupnetworking,
Week12searchengine,searchingwebusingsearchengine,
Week13audiooninternet,newsgroup,subscribingtonewsgroups
Week14 RevisionClassTest
Week15 Intranetconceptsandarchitecture,buildingcorporateworldwideweb
Week16HTTPprotocol,intranetinfrastructure
Week17fundamentalofTCP/IP,intranetsecuritydesign,
Week18intranetasabusinesstools,futureofintranet,protocolsofcommunication
Week19 RevisionandAssignment

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Ms. Yogita & Dr. Chancal
Class- B.SC. 3rd semester
Subject- Data Communication and Networking, Object- Oriented Design and C++ Paper: 3.1, 3.2

WEEKS	SYLLABUS
Week1	Introduction to Computer Communications and Networking Technologies; Uses of Computer Networks; Object oriented concepts: Class, Object, Methods, Message Passing, Abstraction, Inheritance
Week2	Network Devices, Nodes, and Hosts; Types of Computer Networks and their Topologies; Network Architecture, object oriented Concepts: Polymorphism, Generosity, Overriding, Abstract Class & methods. Generalization, Aggregation, Associations
Week3	OSI Reference Model, Object modeling techniques: Introduction to object model, Dynamic model, Functional Model. Strengths & Weakness of all model
Week4	TCP/IP reference model. flow control, recursion, array, Pointers and their manipulation, strings, structures, Class and Objects, Data Hiding & Encapsulation
Week5	Analog and Digital Communications: Concept of data, signal, channel, bid-rate , maximum data-rate of channel, Data members and Member functions, Inline Functions, Static Data Members and Member Functions
Week6	Representing Data as Analog Signals, Representing Data as Digital Signals, Data Rate and Bandwidth, Friend Functions, Preprocess or Directives, Namespace, Comparing C with C++.
Week7	Capacity ,Baud Rate; Asynchronous and synchronous transmission, Constructors& Destructors: Roles and types of Constructors, data encoding techniques, Modulation techniques
Week8	Digital Carrier Systems; Guided and Wireless Transmission Media, Constructor Overloading, Roles of Destructors, Dynamic Memory Allocation: Pointers and their Manipulation
Week9	Communication Satellites; Switching and Multiplexing ;new and delete Operators 'this' Pointer. Console I/O: Formatted and Unformatted I/O
Week10	Dialup Networking; Analog Modem Concepts. Data Link Layer: Framing, Flow Control, Error Control, Manipulators
Week11	Error Detection and Correction; Media Access Control: Random Access Protocols, Compile-Time Polymorphism: Unary and Binary Operators overloading through Member Functions
Week12	Token Passing Protocols; Token Ring; Introduction to Ethernet, FDDI, Unary and Binary Operators overloading through Friend Functions
Week13	Wireless LANs. Network Layer and Routing Concepts: Virtual Circuits and Datagram's; Function Overloading, virtual

	functions
Week14	Routing Algorithms: Flooding, Shortest Path Routing, Distance Vector Routing; Internetworking abstract class, virtual class
Week15	Transport layer: Elements of Transport protocol: Addressing, Connection Establishment, Flow Control, Buffering, Inheritance: Types of Derivations, Forms of Inheritance
Week16	Crash recovery. Internet Transport protocol: UDP: Introduction, Real time Transport protocol, Remote Procedure Call, Roles of Constructors and Destructors in Inheritance. Application Layer: Domain Name System, Electronic Mail, World Wide Web

LESSONPLAN(July 2024 to Nov. 2024)

NAME: JYOTI

CLASS: BBA3RDSEM

SUBJECT: DATABASEMANAGEMENTSYSTEM

WEEK1:Introuction,DatabasemanagementSystemconcepts.Definitions:Entity,attribute, Record , etc.

WEEK2:DBMSArchitecture,External schema,Conceptual Schema,Internal Schema.

Week3:DatatypesinDBMS,TypesofKeys:Primarykey,secondarykey

Week4:Alternatekey,foreignkey,schemas,typesofschemas,instanceofaschema.

Week 5: DBMS characteristics,difference between traditional database managementsystem and moderndatabasemanagementsystem.

Week6:Databaseadministrator,RoleofDBAinmaintainingandcontrollinginDatabase.

Week7:Databasesecurityandthreats:variousthreats todatabase.Securitymeasuresindatabase,. Week 8:Threatsina database indetail:Availability loss,Integrity loss,confidentiality loss

Week9:Accesscontrol,flowcontrol,dataencryption,datadecryption,cryptography

Week 10: Database Models: ER model, Entities and relationship and various symbols used in ER model

Week11:RelationalModel:HowtotransformarelationalmodelintoERmodelandviceversa

Week12:Information:characteristicsofinformation.Differencebetweenfileorientedsystemand databasesystem.

Week 13: Types of DBMS: distributed database management system and centralized management system

Week14:Datadictionary:typesofdatadictionary

Week15:Datawarehousing,datamining,firewallsanddatabaserecovery.

Week16:Internet,Database,Digitallibraries

Week17:MultimediaDatabase

Week18:Mobiledatabase,Spatialdatabase

LessonPlan

July 2024 to Nov. 2024

NameofAssistant/AssociateProfessor:**Dr.Vandana**

Class and Section: **BCA 3rdSem (Sec A & B)**

Subject:**Introductiontooperatingsystem**

Paper:**BCA201**

Week1: IntroductiontoOperatingSystem,itsneedandoperatingSystem services.
Week2: Earlysystems,Structures-SimpleBatch,Multiprogrammed,timeshared,PersonalComputer, Parallel, Distributed Systems, Real-Time Systems.
Week3: ProcessManagement:Processconcept,Operationonprocesses,CooperatingProcesses
Week4:Threads,andInter-processCommunication.
Week5:CPUScheduling:Basicconcepts,Schedulingcriteria
Week6: Schedulingalgorithms:FCFS,SJF
Week7:RoundRobin&QueueAlgorithms
Week8:Deadlocks:Deadlockcharacterization,Methodsforhandlingdeadlocks,Banker'sAlgorithm
Week9:MemoryManagement:LogicalversusPhysicaladdressspace,Swapping
Week10: Contiguousallocation,Paging,Segmentation
Week11: VirtualMemory:Demandpaging,Performanceofdemandpaging
Week 12: Page replacement, Page replacement algorithms, Thrashing
Week 13: File management: File system Structure
Week14: Allocationmethods:Contiguousallocation
Week15: Linkedallocation,Indexedallocation
Week16: Freespacemanagement:Bitvector,Linked list
Week17:Grouping,Counting,DeviceManagement:Diskstructure
Week18: Diskscheduling:FCFS,SSTF,SCAN
Week19:C-SCAN,LOOK,C-LOOK
ProblemsandsyllabusRevision.TestandAssignments

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Ms. Yogita
Class- BCA 5TH semester
Subject- VISUAL BASIC BCA -304

WEEKS	SYLLABUS
Week1	Introduction to VB: Visual & non-visual programming, Procedural, Object-oriented and event driven programming languages
Week2	The VB environment: Menu bar, Toolbar, Project explorer, Toolbox, Properties window
Week3	Form designer, Form layout, Immediate window. Visual Development and Event Driven programming.
Week4	Basics of Programming: Variables: Declaring variables, Types of variables, Converting variables types
Week5	User-defined data types, Forcing variable declaration, Scope & lifetime of variables. Constants: Named & intrinsic.
Week6	Operators: Arithmetic, Relational & Logical operators. I/O in VB: Various controls for I/O in VB, Message box, Input Box, Print statement
Week7	Programming with VB: Decisions and conditions: If statement, If-then-else, Select-case.
Week8	Looping statements: Do-loops, For-next, While-wend, Exit statement. Nested control structures.
Week9	Arrays: Declaring and using arrays, one-dimensional and multi-dimensional arrays, Static & dynamic arrays, Arrays of array
Week10	Collections: Adding, Removing, Counting, Returning items in a collection, Processing a collection.
Week11	Programming with VB: Procedures: General & event procedures, Subroutines
Week12	Functions ,Calling procedures, Arguments- passing mechanisms
Week13	Optional arguments, Named arguments, Functions returning custom data types
Week14	Functions returning arrays. Working with forms and menus : Adding multiple forms in VB, Hiding & showing forms
Week15	. Load & unload statements, creating menu, submenu, popup menus, Activate & deactivate events
Week16	Form-load event, menu designing in VB Simple programs in VB

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Chanchal & Jyoti
Class- BCA 1st sem
Subject-Web Development-I

WEEKS	SYLLABUS
Week1	Evolution and History of World Wide Web; Basic features; the evolution of Web development; Web Servers; Hypertext Transfer Protocol; URLs; IP Addresses; Domain Names
Week2	Searching and Web- Casting Techniques; Search Engines and Search Tools; Internet Security; The Web Programmers;
Week3	Toolbox. Introduction to Web Technologies; Introduction to HTML, CSS, and JavaScript, Introduction to Client-Side vs. Server- Side Scripting;
Week4	Hosting your Site; Internet Service Provider; Planning and designing your Web Site; Steps for developing your Site,Test
Week5	Choosing the contents; Home Page; Domain Names; Creating a Website and the Markup Languages (HTML, DHTML);
Week6	Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML command Tags; Creating Links; Headers
Week7	Text styles; Text Structuring; Text colors and Background; Formatting text; Page layouts; Lists, Tables;
Week8	meta element; New HTML5 Form input Types; input and data list elements; auto complete Attribute; Page-Structure Elements; Introduction to DHTML and its features,Test
Week9	CGI; Features of Java; Java Script; Features of ASP; VBScript; Macromedia Flash; Macromedia Dreamweaver
Week10	The JavaScript execution environment; The Document Object Model ; Element access in JavaScript; Events and event handling, Handling events from the Body elements, Button elements,
Week11	Text box, and Password elements ; The DOM 2 event model ; The navigator object ; DOM tree traversal and modification;
Week12	Introduction to CSS, Block and Inline Elements, Inline Styles, using internal CSS, using external CSS, How CSS rules cascade, inheritance, why use external style sheets? ,Test
Week13	CSS3 Basics: CSS selectors, color: foreground color, background color, contrast, opacity; text: Typeface terminology, Specifying Typefaces, fonts; list tables and forms: list-style, table properties, styling forms, styling text input, Test
Week14	Layout: key concepts in positioning elements, controlling the position of elements: relative positioning, absolute positioning, fixed positioning, z-index

Week15	Float, clear, creating multi column layout with float, fixed width layout, liquid layout
Week16	layout grids, Images: controlling size of images in CSS,TEST of all syllabus
Week 17	Aligning images using CSS, centering images using CSS, background images, gradients, Media Queries, Test

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Nalini
Class- 1st Sem
Subject- Multidisciplinary Course

WEEKS	SYLLABUS
Week1	**Introduction**: Historical evolution of computers,Classification of computers, Block Diagram along its components and characteristics,
Week2	Usefulness of Computers. Human being Vs. Computer, Applications of computers in various fields.
Week3	**Input/Output Devices**: Keyboards, mouse, joysticks, trackballs, digitizer, voice-recognition, optical-recognition
Week4	Scanners, terminals, point-of-sale terminals, machine-vision systems, Printer & its types
Week5	**Memory & Mass Storage Devices**: Characteristics of memory systems, types of memory, RAM, ROM, magnetic disks-floppy disk, hard-disk;
Week6	Optical disks; Magnetic tapes; Concepts of Virtual and Cache memory
Week7	**Operating System:** Functions, Measuring System Performance, Assemblers, Compilers and Interpreters
Week8	Batch Processing, Multiprogramming, Multi Tasking, Multiprocessing, Time Sharing, DOS, Windows, Unix/Linux.
Week9	**Data Communication:** Communication Process, Data Transmission speed, Communication Types (modes), Data Transmission Medias, Modem and its working, characteristics
Week10	Types of Networks, LAN topologies, Computer Protocols, Concepts relating to networking.
Week11	**Internet:** Introduction to Internet, WWW and Web Browsers; Applications of Internet; connecting to internet; What is ISP?
Week12	**Internet:** Introduction to Internet, WWW and Web Browsers; Applications of Internet; connecting to internet; What is ISP?; Search Engines; Understanding URL; Domain name; IP Address; Web page, Website and home page.
Week13	**Electronic Mail:** Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses, message components, message composition,

	Web Browsers and search engines.
Week14	**Business Data Processing:** Introduction, data storage hierarchy, Method of organizing data, File Types, File Organization, File Utilities.
Week15	Revision of whole syllabus
Week16	Revision of whole syllabus

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Tanu Batra
Class- 1st Sem
Subject- Multidisciplinary Course

WEEKS	SYLLABUS
Week1	**Introduction**: Historical evolution of computers,Classification of computers, Block Diagram along its components and characteristics,
Week2	Usefulness of Computers. Human being Vs. Computer, Applications of computers in various fields.
Week3	**Input/Output Devices**: Keyboards, mouse, joysticks, trackballs, digitizer, voice-recognition, optical-recognition
Week4	Scanners, terminals, point-of-sale terminals, machine-vision systems, Printer & its types
Week5	**Memory & Mass Storage Devices**: Characteristics of memory systems, types of memory, RAM, ROM, magnetic disks-floppy disk, hard-disk;
Week6	Optical disks; Magnetic tapes; Concepts of Virtual and Cache memory
Week7	**Operating System:** Functions, Measuring System Performance, Assemblers, Compilers and Interpreters
Week8	Batch Processing, Multiprogramming, Multi Tasking, Multiprocessing, Time Sharing, DOS, Windows, Unix/Linux.
Week9	**Data Communication:** Communication Process, Data Transmission speed, Communication Types (modes), Data Transmission Medias, Modem and its working, characteristics
Week10	Types of Networks, LAN topologies, Computer Protocols, Concepts relating to networking.
Week11	**Internet:** Introduction to Internet, WWW and Web Browsers; Applications of Internet; connecting to internet; What is ISP?
Week12	**Internet:** Introduction to Internet, WWW and Web Browsers; Applications of Internet; connecting to internet; What is ISP?; Search Engines; Understanding URL; Domain name; IP Address; Web page, Website and home page.

Week13	**Electronic Mail:** Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses, message components, message composition, Web Browsers and search engines.
Week14	**Business Data Processing:** Introduction, data storage hierarchy, Method of organizing data, File Types, File Organization, File Utilities.
Week15	Revision of whole syllabus
Week16	Revision of whole syllabus

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Nalini
Class- 1st Sem
Subject- Value Added Course under NEP

WEEKS	SYLLABUS
Week1	Introduction & Evolution of Digital Systems: Role & Significance of Digital Technology; Information and Communication Technology (ICT) & Tools
Week2	Computer System &its working, Software and its types
Week3	Operating Systems: Types and Functions. Problem Solving: Algorithms and Flowcharts
Week4	Communication Systems: Principles, Model & Transmission Media
Week5	Computer Networks & Internet: Concepts & Applications, WWW, Web Browsers, Search Engines
Week6	Messaging, Email, Social Networking. Computer Based Information System: Significance & Types.
Week7	E-commerce & Digital Marketing: Basic Concepts, Benefits & Challenges
Week8	Emerging Technologiesand their applications:Overview of Artificial Intelligence, Machine Learning
Week9	Deep Learning; Big Data, Data Science and Big Data Analytics; Internet of Things (IoT) and Industrial Internet of Things (IIoT),
Week10	Robotics and 3D Printing; Blockchain Technology; Quantum Computing; Cloud computing and its service models
Week11	Digital India & e-Governance: Initiatives, Infrastructure, Services and Empowerment.
Week12	Digital Financial Tools: Unified Payment Interface, AadharEnabled Payment System, USSD, Credit / Debit Cards,
Week13	e-Wallets, Internet Banking, NEFT/RTGS and IMPS, Online Bill Payment and POS.
Week14	Cyber Security: Threats, Significance, Challenges, Precautions, Safety Measures and Tools.
Week15	REVISION OF WHOLE SYLLABUS
Week16	REVISION OF WHOLE SYLLABUS

LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Tanu Batra
Class-
Subject- Value Added Course under NEP

WEEKS	SYLLABUS
Week1	Introduction & Evolution of Digital Systems: Role & Significance of Digital Technology; Information and Communication Technology (ICT) & Tools
Week2	Computer System &its working, Software and its types
Week3	Operating Systems: Types and Functions. Problem Solving: Algorithms and Flowcharts
Week4	Communication Systems: Principles, Model & Transmission Media
Week5	Computer Networks & Internet: Concepts & Applications, WWW, Web Browsers, Search Engines
Week6	Messaging, Email, Social Networking. Computer Based Information System: Significance & Types.
Week7	E-commerce & Digital Marketing: Basic Concepts, Benefits & Challenges
Week8	Emerging Technologiesand their applications:Overview of Artificial Intelligence, Machine Learning
Week9	Deep Learning; Big Data, Data Science and Big Data Analytics; Internet of Things (IoT) and Industrial Internet of Things (IIoT),
Week10	Robotics and 3D Printing; Blockchain Technology; Quantum Computing; Cloud computing and its service models
Week11	Digital India & e-Governance: Initiatives, Infrastructure, Services and Empowerment.
Week12	Digital Financial Tools: Unified Payment Interface, AadharEnabled Payment System, USSD, Credit / Debit Cards,
Week13	e-Wallets, Internet Banking, NEFT/RTGS and IMPS, Online Bill Payment and POS.
Week14	Cyber Security: Threats, Significance, Challenges, Precautions, Safety Measures and Tools.
Week15	REVISION OF WHOLE SYLLABUS
Week16	REVISION OF WHOLE SYLLABUS