

Lesson Plan July-Dec 2018

Name: Venu Azad

Class: MCA 1st Sem

Subject: Internet and Web Technology

Paper Code: 16MCA31C4

Month	Syllabus to be covered
1 Aug to 4 Aug	UNIT-I Introduction to Web Engineering: Categories and Characteristics of Web Applications
6 Aug to 11 Aug	The Internet, Basic Internet Protocols, Introduction to Intranet, Client-Server Environment, Web Browser and its functions
13 Aug to 18 Aug	Web Servers and their features, WWW, Types of Computer Network: LAN, WAN, MAN, Network Topologies.
20 Aug to 25 Aug	E-Mail Concepts: Sending and Receiving Files through E-Mail, Fighting Spam, Sorting and Searching Mails, Mailing List,.
27 Aug to 1 Sep	Avoiding E-Mail viruses, Configuring E-Mail Program
3 Sep to 8 Sep	Unit 2 Search Engines: Categories of Search Engines, Searching Criterion, Hypertext Transfer Protocol (HTTP), Presentation on Unit 1
10 Sep to 15 Sep	Hypertext Transfer Protocol (HTTP), URL and DNS working, Usenet Newsgroup Concepts: Reading Usenet newsgroups, Internet Relay Chat.
17 Sep to 22 Sep	Introduction to Blog: Using Wordpress, Introduction to social networking: Instant messaging, Web-Based chat rooms and discussion boards, Voice and Video conferencing,
24 Sep to 29 Sep	Streamlining Browsing, Keeping track of Favorite Web Sites, Web Security: Privacy and Site-Blocking. UNIT-3 Web designing using HTML: Understanding HTML, XHTML Syntax and Semantics, HTML Elements: Test1
1 Oct to 6 Oct	Paragraph, Lists, Tables, Images, Frames, Forms, Linking to other Web Pages: External and Internal linking, E-mail Links, Working with Background colors and Images,
8 Oct to 13 Oct	Marquee, Text Alignment and Text Formatting, Advanced Layout with Tables; Publishing HTML Pages Unit-4: Cascading Style Sheets: Introduction, Inline, Internal and External CSS. Assignment 2
15 Oct to 20 Oct	XML: Relation between XML, HTML, SGML Goals of XML, Structure and

	Syntax of XML, Well Formed XML,
22 Oct to 27 Oct	DTD and its Structure, Namespaces and Data Typing in XML Transforming XML Documents
29 Oct to 3 Nov & 5 Nov	XPATH, Template based Transformations, Test 2
6 Nov to 13 Nov	Vacations
14 Nov. to 17 Nov.	Linking with XML, Displaying XML documents in Browsers.
19 Nov. to 21 Nov.	Revision

Lesson Plan July-Dec 2018

Name: Venu Azad

Class: MCA 3rd Sem

Subject: Computer Graphics

Paper Code: 17MCA33C1

Month	Syllabus to be covered
1 Aug to 4 Aug	UNIT-I Overview of Graphics System: Computer Graphics and Its Types; Application of Computer Graphics; Video Display Devices
6 Aug to 11 Aug	CRT, Raster Scan Systems, Random Scan System Color CRT Monitors, Refresh CRT and Interlacing; DVST,
13 Aug to 18 Aug	Emissive and Non- Emissive Display devices Hard copy devices; Graphics Software Standards
20 Aug to 25 Aug	Color Models: RGB,CMY, HLS; Color and Gray Scale Levels
27 Aug to 1 Sep	UNIT-II Scan Conversion: Scan Converting a Point, Line, Circle and Ellipse Assignment 1
3 Sep to 8 Sep	Anti- aliasing, Two-Dimensional Geometric Transformations , Basic Transformations (Translation, Rotation, Scaling),
10 Sep to 15 Sep	Matrix Representations and Homogeneous Coordinates, Composite Transformations, Reflection and Shearing.
17 Sep to 22 Sep	UNIT-III Polygon Filling: Scan-Line Polygon Fill Algorithm, Inside-Outside tests Test1

24 Sep to 29 Sep	Boundary-Fill Algorithm, Flood Fill Algorithm, Cell Array, Character Generation.
1 Oct to 6 Oct	Two-Dimensional Viewing: The Viewing Pipeline, Window to View port coordinate Transformation.
8 Oct to 13 Oct	Clipping Operations, Point Clipping, Line Clipping, Polygon Clipping for Convex and Concave polygons, Text Clipping, Exterior Clipping. Assignment2
15 Oct to 20 Oct	UNIT-IV Three-Dimensional Concepts: Three Dimensional Display Methods: Parallel Projection and Perspective Projection; 3D Transformations
22 Oct to 27 Oct	Bezier Curves vs. B-Spline Curves; Shading methods: Flat Shading, Gouraud Shading, Phong Shading.
29 Oct to 3 Nov & 5 Nov	Animation: Design of Animation Sequence; Classification of Animation; Components of Multimedia; Authoring Process and Tools.
6 Nov to 13 Nov	Vacations
14 Nov. to 17 Nov.	Case Study: A graphics software:- MatLab, Uses of MatLab in Graphics Application, Features of MatLab, Generalize application by using MatLab. .
19 Nov. to 21 Nov.	Presentation

Lesson Plan July-Dec 2018

Name: Venu Azad

Class: MCA 3rd Sem

Subject: ADVANCE DATABASE SYSTEMS

Paper Code: 17MCA33C3

Month	Syllabus to be covered
1 Aug to 4 Aug	The Enhanced Entity-Relationship Model and Object-Oriented Database: EER Model: The ER model revisited, EER model: Super classes, Subclasses, Inheritance.
6 Aug to 11 Aug	Specialization and Generalization Constraints and characteristics of specialization and Generalization, Category. Object Model: Overview of Object-Oriented concepts, Object identity, Object structure, Type constructors.
13 Aug to 18 Aug	Encapsulation of operations, Methods, and Persistence Type hierarchies and Inheritance, Complex objects, Schema design for OODBMS, OQL, Persistent Programming language,

20 Aug to 25 Aug	OODBMS architectures and storage issues, Transaction and concurrency control.
27 Aug to 1 Sep	Unit 2: Object Relational and Extended Relational databases: Database design for an ORDBMS – Nested relations and collections. Assignment 1
3 Sep to 8 Sep	Storage and access methods, Query processing and Optimization, Advance Querying: User define data types
10 Sep to 15 Sep	Manipulating objects table, object view. Information Retrieval, Decision Support Systems, Data Warehousing: fundamental Concepts
17 Sep to 22 Sep	Aarchitecture of Data Warehouse, data flow, tools and techniques, data warehouse design, OOLP. Data Mining: KDD process, primitives, types of data mining, association, classification and clustering.
24 Sep to 29 Sep	UNIT-III Parallel Database: Architectures for parallel databases, Inter and Intra Query parallelism, Inter and Intra Query operations, Test1
1 Oct to 6 Oct	Parallelizing individual operations, Sorting, Joins, Pipelining; Distributed database: architectures for distributed database, Data fragmentation, Replication, and allocation techniques for distributed database design,
8 Oct to 13 Oct	Query processing in distributed databases; Concurrency control and Recovery in distributed databases Overview of Client Server Architectures: Centralized and Client-Server architectures, Server architectures Assignment2
15 Oct to 20 Oct	UNIT-IV Enhanced Data Models for Advanced Applications & Emerging Technologies: Active database: syntax and semantics (DB2, Oracle), applications, design principles for active rules, Temporal database concepts, Spatial databases,
22 Oct to 27 Oct	Deductive databases. Emerging Database Technologies: Mobile databases, Multimedia Databases, Geographic information systems (GIS);
29 Oct to 3 Nov & 5 Nov	XML and Internet Databases: Structured, Semi-structured and Unstructured Data, Introduction to web databases and XML, Structure of XML data
6 Nov to 13 Nov	Vacations
14 Nov. to 17 Nov.	Cloud based databases: data storage systems on cloud, cloud storage architectures, cloud data models; Big data: storage and analysis of Big data. .
19 Nov. to 21 Nov.	Presentation

Lesson Plan July-Dec 2018

Name: Venu Azad

Class: MCA 5th Sem

Subject: Soft Computing

Paper Code: 18MCA35C2

Month	Syllabus to be covered
1 Aug to 4 Aug	UNIT-I Introduction: Introduction to soft computing, introduction to biological and artificial neural network
6 Aug to 11 Aug	Introduction to fuzzy sets and fuzzy logic systems. Introduction to Genetic Algorithm:
13 Aug to 18 Aug	Genetic Operators and Parameters, Genetic Algorithms in Problem Solving, Theoretical Foundations of Genetic Algorithms, Implementation Issues.
20 Aug to 25 Aug	UNIT-II Artificial neural networks and applications: Different artificial neural network models.
27 Aug to 1 Sep	learning in artificial neural networks; neural network applications in control systems. Assignment 1
3 Sep to 8 Sep	Neural Nets and applications of Neural Network.
10 Sep to 15 Sep	UNIT-III Fuzzy systems and applications: fuzzy sets; fuzzy reasoning.
17 Sep to 22 Sep	fuzzy inference systems; fuzzy control.
24 Sep to 29 Sep	fuzzy clustering; applications of fuzzy systems, Test1
1 Oct to 6 Oct	Neuro-fuzzy systems: neuro-fuzzy modeling; neuro-fuzzy control.
8 Oct to 13 Oct	UNIT-IV Applications: Pattern Recognitions, Assignment2
15 Oct to 20 Oct	Image Processing, Biological Sequence Alignment and Drug Design
22 Oct to 27 Oct	Robotics and Sensors, Information Retrieval Systems
29 Oct to 3 Nov & 5 Nov	Share Market Analysis, Natural Language Processing.
6 Nov to 13 Nov	Vacations
14 Nov. to 17 Nov.	Revision

19 Nov. to 21 Nov.

Presentation