# TENTATIVE PLAN: R1622121

| Course Title: Computer Graphics (R1622121) | | |
|---|---|---|
| Section : IT | Date : 18-11-2019 | A.Y:2019-2020 |
| Revision No : | Prepared By Amritha mishra(Assistant professor | Approved By : HOD |

Tools : Black board, PPTs, Moodle

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| UNIT –I  2D Primitives | | | |
| CO1: Know and be able to describe the general software architecture of programs that use 3D computer graphics. | | | |
| TB : Donald Hearn, Pauline Baker, Computer Graphics – C Version, second edition, Pearson Education,2004. | | | |
| 1. | Output primitives- Line, | 18/11/19 | |
| 2. | Circle drawing algorithms | 19/11/19 | |
| 3. | Ellipse drawing algorithms | 20/11/19 | |
| 4. | Attributes of output primitives | 21/11/19 | |
| 5. | Two dimensional Geometric transformations | 22/11/19  23/11/19 | |
| 6. | Two dimensional viewing | 25/11/19  26/11/19 | |
| 7. | Line | 27/11/19 | Lecture interspersed with discussions |
| 8. | Polygon | 28/11/19  29/11/19 | |
| 9. | Curve | 30/11/19  2/12/19 | |
| 10. | Text clipping algorithms | 3/12/19  4/12/19 | |
| 11. | Output primitives- Line, | 5/12/19  6/12/19 | |

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|---|---|---|
| Section : IT | Date : | A.Y:2019-2020 |
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Tools : Black board, PPTs

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| UNIT –II    3D Concepts | | | |
| CO2: Know and be able to describe the general software architecture of programs that use 3D computer graphics. | | | |
| TB : Donald Hearn, Pauline Baker, Computer Graphics – C Version, second edition, Pearson Education,2004. | | | |
| 12 | Parallel and Perspective projections | 9/12/19 | |
| 13 | Three dimensional object representation | 10/12/19 | |

| No. | TOPIC | Date | Mode of Delivery |
|-----|-------|------|------------------|
| 14 | Polygons, Curved lines | 11/12/19<br>12/12/19 | Lecture interspersed with discussions |
| 15 | Splines, | 13/12/19<br>16/12/19 | |
| 16 | Quadric Surfaces | 17/12/19<br>18/12/19 | |
| 17 | Visualization of data sets | 19/12/19 | |
| 18 | 3Dtransformations | 20/12/19 | |
| 19 | Viewing -Visible surface identification | 21/12/19 | |

**UNIT –III    Graphics Programming**

**CO3: Know and be able to discuss hardware system architecture for computer graphics. This Includes, but is not limited to: graphics pipeline, frame buffers, and graphic accelerators /co-processors.**

**TB :  F.S. Hill, Computer Graphics using OPENGL, Second edition, Pearson Education, 2003.**

| No. | TOPIC | Date | Mode of Delivery |
|-----|-------|------|------------------|
| 20 | Color Models – RGB, YIQ, | 23/12/19 | |
| 21 | CMY, HSV | 24/12/19 | |
| 22 | Animations – General Computer Animation | 25/12/19<br>26/12/19 | |
| 23 | Raster, | 27/12/19 | |
| 24 | Keyframe | 28/12/19 | |
| 25 | Graphics programming using OPENGL | 30/12/19<br>2/1/20 | Lecture interspersed with discussions |
| 26 | Basic graphics primitives | 3/1/20<br>4/1/20 | |
| 27 | Drawing three dimensional objects | 5/1/20<br>6/1/20 | |
| 28 | Drawing three dimensional scenes | 13/1/20<br>11 /1/20 | |

| Course Title: Computer Graphics (R1622121) | | |
|---|---|---|
| **Section   : IT** | **Date :** | **A.Y:2019-2020** |
| **Revision No :** | **Prepared By Amritha mishra(Assistant professor** | **Approved By : HOD** |

Tools : Black board, PPTs

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|

**UNIT –IV    Rendering**

**CO4: Know and be able to discuss hardware system architecture for computer graphics. This Includes, but is not limited to: graphics pipeline, frame buffers, and graphic accelerators /co-processors.**

**TB :  F.S. Hill, Computer Graphics using OPENGL, Second edition, Pearson Education, 2003.**

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 29 | Introduction to Shading models | 24 /1/20<br>25/1/20 | |
| 30 | Flat and Smooth shading | 27/1/20 | |

| | | | 28/1/20 | Lecture interspersed with discussions |
|---|---|---|---|---|
| 31 | Adding texture to faces | | 29/1/20 | |
| | | | 30/1/20 | |
| 32 | Adding shadows of objects | | 31/1/20 | |
| | | | 1/2/20 | |
| 33 | Building a camera in a program | | 3/2/20 | |
| | | | 4/2/20 | |

## UNIT –V    Fractals

**CO5: Know and be able to select among models for lighting/shading: Color, ambient light; distant and light with sources; Phong reflection model; and shading (flat, smooth, Gourand, Phong).**

**TB : F.S. Hill, Computer Graphics using OPENGL, Second edition, Pearson Education, 2003.**

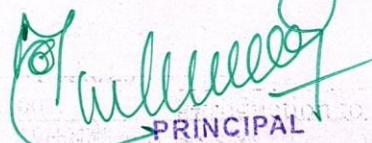| | | | | |
|---|---|---|---|---|
| 34 | Fractals and Self similarity | | 5/2/20 | |
| | | | 6/2/20 | |
| 35 | Peano curves | | 7/2/20 | |
| | | | 8/2/20 | |
| 36 | Creating image by iterated functions | | 10/2/20 | Lecture interspersed with discussions |
| | | | 11/2/20 | |
| 37 | Mandelbrot sets | | 12/2/20 | |
| | | | 13/2/20 | |
| 38 | Julia Sets | | 14/2/20 | |
| | | | 15/2/20 | |
| 39 | Random Fractals | | 17/2/20 | |
| | | | 18/2/20 | |

## UNIT –VI    Overview of Ray Tracing

**CO6: Know and be able to select among models for lighting/shading: Color, ambient light; distant and light with sources; Phong reflection model; and shading (flat, smooth, Gourand, Phong).**

**TB : F.S. Hill, Computer Graphics using OPENGL, Second edition, Pearson Education, 2003.**

| | | | | |
|---|---|---|---|---|
| 40 | Intersecting rays with other primitives | | 19/2/20,20/2/20 , 24/2/20 | |
| 41 | Adding Surface texture | | 25/2/20,26/2/20 | |
| 42 | Reflections | | 27/2/20,28/2/20 , 29/2/20 | Lecture interspersed with discussions |
| 43 | Transparency | | 2/3/20 ,3/3/20, 4/3/20 | |
| 44 | Boolean operations on Objects. | | 5/3/20, 6/3/20, 12/3/20 | |

**Signature of the Faculty**

**Signature of the HOD** 18/4/19

# TENTATIVE PLAN: R1622052

| Course Title: JAVA PROGRAMMING(R1622052) | | |
|---|---|---|
| **Section : IT** | **Date :** 18-11-2019 | **A.Y:2019-2020** |
| **Revision No : 00** | **Prepared By : Y.V.NANDINI** | **Approved By : HOD** |

**Tools : Black board, PPTs, Moodle**

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| UNIT-1:Introduction to OOP | | | |
| CO1:Understand Java programming concepts and utilize Java Graphical User Interface in Program writing. | | | |
| CO2:Write, compile, execute and troubleshoot Java programming for networking concepts. | | | |
| | **Unit - 1** | | |
| 1 | Introduction to OOP | 18/11/19 | |
| 2 | Procedural programming language and Object oriented language | 19/11/19 20/11/19 | |
| 3 | Principles of OOP | 26/11/19 | |
| 4 | Applications of OOP, History of java | 26/11/19 | |
| 5 | Java features, JVM, Program structure | 29/11/19 | Lecture interspersed with discussions |
| 6 | Variables, Primitive data types | 30/11/19 | |
| 7 | Identifiers, Literals | 3/12/19 | |
| 8 | Operators ,Expression | 3/12/19 | |
| 9 | Precedence rules and Associativity | 4/12/19 | |
| 10 | primitive type conversion | 6/12/19 | |
| 11 | **Castings and basic programs** | 7/12/19 | |
| 12 | Flow of control | 8/12/19 | |
| Unit – 2:Classes and objects | | | |
| CO1:Understand Java programming concepts and utilize Java Graphical User Interface in Program writing. | | | |
| CO2:Write, compile, execute and troubleshoot Java programming for networking concepts. | | | |
| 13 | Classes and objects Introduction | 10/12/19 | |
| 14 | Class declaration | 11/12/19 | |
| 15 | Creating objects, Methods | 13/12/19 | |
| 16 | Constructors and Constructor Overloading | 13/12/19 | |
| 17 | Constructor Overloading | 17/12/19 | |
| 18 | Garbage Collector | 17/12/19 | Lecture interspersed with discussions |
| 19 | Importance of static keyword | 18/20/19 | |
| 20 | Examples of static keyword | 18/12/19 | |

| 21 | This keyword,Arrays | 20/12/19 | |
| 22 | command line arguments | 20/12/19 | |
| 23 | Nested classes | 21/12/19 | |
| 24 | Tutorials | 21/12/19 | |

| S. No | Unit / Topic | Taught on (Date) | |
|---|---|---|---|

**Unit – 3:Inheritance**
**CO2:**Write, compile, execute and troubleshoot Java programming for networking concepts.

| S. No | Unit / Topic | Taught on (Date) | |
|---|---|---|---|
| 25 | Inheritance Introduction | 27/12/19 | |
| 26 | Types of inheritance | 27/12/19 | |
| 27 | Super keyword, Final keyword | 31/12/19 | |
| 28 | Overriding and abstract class | 31/12/19 | |
| 29 | Interfaces, creating the packages | 3/1/2020 | |
| 30 | using packages, importance of CLASSPATH | 3/1/2020 | Lecture interspersed with discussions |
| 31 | java.lang package | 4/1/2020 | |
| 32 | Exception handling | 4/1/2020 | |
| 33 | Importance of try, catch, throw throws and finally block | 7/1/2020 | |
| 34 | Importance of try, catch, throw throws and finally block | 7/1/2020 | |
| 35 | userdefined exceptions | 7/1/2020 | |
| 36 | Assertions | 8/1/2020 | |
| 37 | Programs on Exception Handling | 10/1/2020 | |
| 38 | Tutorials | 10/1/2020 | |

**Unit – 4: Multithreading**
**CO3:**Build Java Application for distributed environment.
**CO4:**Design and Develop multi-tier applications.

| S. No | Unit / Topic | Taught on (Date) | |
|---|---|---|---|
| 39 | Multithreading Introduction | 28/1/2020 | |
| 40 | Thread life cycle | 28/1/2020 | |
| 41 | Creation of threads | 29/1/2020 | |
| 42 | Thread priorities | 31/1/2020 | |
| 43 | Thread priorities | 1/2/2020 | |
| 44 | Thread synchronization | 4/2/2020 | |
| 45 | communication between threads | 4/2/2020 | Lecture interspersed with discussions |
| 46 | Reading data from files | 5/2/2020 | |
| 47 | Reading data from files | 7/2/2020 | |
| 48 | writing data to files | 8/2/2020 | |
| 49 | writing data to files | 10/2/2020 | |
| 50 | random access file | 11/2/2020 | |
| 51 | Tutorials | 12/2/2020 | |

| S. No | Unit / Topic | Taught on (Date) | |
|---|---|---|---|

**Unit – 5:Applet class**
**CO3:**Build Java Application for distributed environment.
**CO4:**Design and Develop multi-tier applications.
**CO5:**Identify and Analyze Enterprise applications

| S. No | Unit / Topic | Taught on (Date) | |
|-------|--------------|------------------|---|
| 52 | Applet class, Applet structure | 14/2/2020 | |
| 53 | Applet life cycle, sample Applet programs | 15/2/2020 | |
| 54 | Event handling | 24/2/2020 | |
| 55 | Event delegation model | 25/2/2020 | Lecture interspersed with discussions |
| 56 | sources of event | 28/2/2020 | |
| 57 | Event Listeners | 28/2/2020 | |
| 58 | Event Listeners | 29/2/2020 | |
| 59 | Adapter classes | 2/3/2020 | |
| 60 | Inner classes. | 2/3/2020 | |
| 61 | Tutorial | 3/3/2020 | |

| S. No | Unit / Topic | Taught on (Date) | |
|-------|--------------|------------------|---|

UNIT-6: AWT
CO3:Build Java Application for distributed environment.
CO4:Design and Develop multi-tier applications.
CO5:Identify and Analyze Enterprise applications

| S. No | Unit / Topic | Taught on (Date) | |
|-------|--------------|------------------|---|
| 62 | AWT: introduction | 4/3/2020 | |
| 63 | components and containers | 6/3/2020 | |
| 64 | Button, Label | 7/3/2020 | |
| 65 | Checkbox, Radio Buttons | 9/3/2020 | |
| 66 | List Boxes, Choice Boxes | 9/3/2020 | |
| 67 | Container class | 10/3/2020 | Lecture interspersed with discussions |
| 68 | Layouts | 10/3/2020 | |
| 69 | Menu and Scrollbar | 11/3/2020 | |
| 70 | Programs on Layouts | 12/3/20 | |
| 71 | Tutorials | 13/3/2020 | |

Y.V.Nandi

**Signature of the Faculty**

**Signature of the HOD**  13/11/19

| Course Title: E-Commerce (R1622122) | | | |
|---|---|---|---|
| Section : IT | Date : 18 - 11 - 2019 | | A.Y:2019-2020 |
| Revision No : | Prepared By: M.Suresh Babu (Assistant professor) | | Approved By : HOD |

**Tools : Black board, PPTs, Moodle**

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT –I Electronic Commerce** | | | |
| **CO1: Identify the major categories and trends of e-commerce applications.** | | | |
| **TB: E-Commerce fundamentals and applications Hendry Chan, Raymond Lee, Tharam Dillon, Ellizabeth Chang, John Wiley.** | | | |
| 1,2 | Frame work, | 18/11/19, 19/11/19 | Lecture interspersed with discussions |
| 3,4 | anatomy of E-Commerce applications, | 20/11/19, 21/11/19 | |
| 5,6 | E-Commerce Consumer applications, | 22/11/19, 25/11/19 | |
| 7 | E-Commerce organization applications. | 27/11/19 | |
| 8 | Consumer Oriented Electronic commerce | 28/11/19 | |
| 9 | Mercantile Process models. | 2/12/19 | |

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT –II Electronic payment systems** | | | |
| **CO2: Identify the essential processes of an e-commerce system.** | | | |
| **TB : E-Commerce fundamentals and applications Hendry Chan, Raymond Lee, Tharam Dillon, Ellizabeth Chang, John Wiley.** | | | |
| 12 | Electronic payment systems | 9/12/19 | Lecture interspersed with discussions |
| 13 | Digital Token-Based | 10/12/19 | |
| 14 | Smart Cards | 11/12/19 | |
| 15 | Credit Cards | 13/12/19 | |
| 16 | Risks in Electronic Payment systems. | 17/12/19 | |
| 17 | Inter Organizational Commerce | 19/12/19 | |
| 18 | EDI, EDI Implementation | 20/12/19 | |
| 19 | Value added networks. | 21/12/19 | |
| **UNIT –III Intra Organizational Commerce** | | | |
| **CO3: Identify several factors and web store requirements needed to succeed in e-commerce.** | | | |
| **TB : E-Commerce fundamentals and applications Hendry Chan, Raymond Lee, Tharam Dillon, Ellizabeth Chang, John Wiley.** | | | |
| 20 | Intra Organizational Commerce | 23/12/19 | Lecture interspersed with discussions |
| 21 | work Flow, | 24/12/19 | |
| 22 | Automation | 25/12/19 | |
| 23 | Customization | 27/12/19 | |
| 24 | Internal Commerce, | 28/12/19 | |
| 25 | Supply chain Management. | 30/12/19 | |

## UNIT –IV  Corporate Digital Library

**CO4: Discuss the benefits and trade-offs of various e-commerce clicks and bricks alternatives.**
**TB : E-Commerce fundamentals and applications Hendry Chan, Raymond Lee, Tharam Dillon, Ellizabeth Chang, John Wiley.**

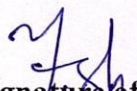| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 26 | Corporate Digital Library | 24 /1/20 | Lecture interspersed with discussions |
| 27 | Document Library | 27/1/20 | |
| 28 | digital Document types, | 29/1/20 | |
| 29 | Corporate Data Warehouses. | 31/1/20 | |
| 30 | Advertising and Marketing - Information based marketing, | 03/2/20 04/2/20 | |
| 31 | Advertising on Internet, | 05/2/20 | |
| 32 | On-line marketing process, market research. | 06/2/20 | |

## UNIT –V  Consumer Search and Resource Discovery

**CO5:  Understand the main technologies behind e-commerce systems and how these technologies interact.**
**TB: E-Commerce fundamentals and applications Hendry Chan, Raymond Lee, Tharam Dillon, Ellizabeth Chang, John Wiley.**

| | | | |
|---|---|---|---|
| 34 | Consumer Search and Resource Discovery | 07/2/20 | Lecture interspersed with discussions |
| 35 | Information search and Retrieval, | 08/2/20 | |
| 36 | Commerce Catalogues | 10/2/20, 11/2/20 | |
| 37 | Information Filtering. | 12/2/20, 13/2/20 | |

## UNIT –VI  Multimedia

**CO6: Define various electronic payment types and associated security risks and the ways to protect against them.**
**TB: E-Commerce fundamentals and applications Hendry Chan, Raymond Lee, Tharam Dillon, Ellizabeth Chang, John Wiley.**
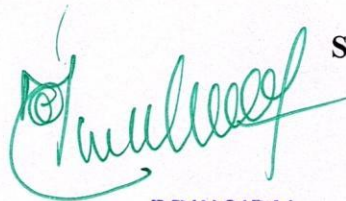
| | | | |
|---|---|---|---|
| 40 | Multimedia - key multimedia concepts | 19/2/20,20/2/20 | Lecture interspersed with discussions |
| 41 | Digital Video and electronic Commerce, | 25/2/20,26/2/20 | |
| 42 | Desktop video processing, | 27/2/20,28/2/20 | |
| 43 | Desktop video conferencing | 02/03/20,03/03/20 | |

**Signature of the Faculty**
18/04/19

**Signature of the HOD**
18/4/19

# TENTAIVE PLAN:R1622054

| Course Title: COMPUTER ORGANIZATION | | |
|---|---|---|
| Section : IT<br>Year /Sem : II/II | Date : 18-11-2019 | AY: 2019-20 |
| Revision No : | Prepared By : M Rambhupal ,Assistant Professor | Approved By : HOD |

Tools: Black Board , PPT , Video Lectures

## UNIT-I: Basic Structure Of Computers.

CO1: Understand the architecture of a modern computer with its various processing units. Also the Performance measurement of the computer system.
TB: Computer Organization, Carl Hamacher, Zvonks Vranesic, Safea Zaky, 5th Edition, McGraw Hill.

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 1 | Introduction to Computer organization | 18.11.2019 | Lecture with discussions |
| 2 | Functional unit, | 20.11.2019 | |
| 3 | Basic Operational concepts | 21.11.2019 | |
| 4,5 | Bus structures, | 22.11.2019, 23.11.2019 | |
| 6,7 | System Software | 26.11.2019, 27.11.2019 | |
| 8 | Performance, | 29.11.2019, | |
| 9,10 | The history of computer development | 2.12.2019 ,4.12.2019 | |

## UNIT-II:Machine Instruction and Programs:

CO1: Understand the architecture of a modern computer with its various processing units. Also the Performance measurement of the computer system.
TB: Computer Organization, Carl Hamacher, Zvonks Vranesic, Safea Zaky, 5th Edition, McGraw Hill..

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 11,12 | Instruction and Instruction Sequencing: | 07&10.12.2019 | Lecture with discussions |
| 13,14 | Register Transfer Notation, | 16.12.2019, 17.12.2019 | |
| 15 | Assembly Language Notation, Basic Instruction Types, | 18.12.2019 | |
| 16 | Addressing Modes, Basic Input/output Operations, | 21.12.2019 | |
| 17 | The role of Stacks and Queues in computer programming equation | 23.12.2019 | |
| 18 | Logic Instructions | 23.12.2019 | |

| 19 | Logic Instructions | 24.12.2019 | |
|---|---|---|---|
| 20 | shift and Rotate Instructions | 26.12.2019 | |
| 21 | shift and Rotate Instructions | 27.12.2019 | |
| | | | |

### UNIT-III: Type of Instructions

CO1: Understand the architecture of a modern computer with its various processing units. Also the Performance measurement of the computer system.
TB: Computer Organization, Carl Hamacher, Zvonks Vranesic, Safea Zaky, 5th Edition, McGraw Hill..

| 22 | Arithmetic and Logic Instructions | 29.12.2019 | |
|---|---|---|---|
| 23 | Arithmetic and Logic Instructions. | 30.12.2020 | |
| 24 | Branch Instructions | 2.1.2020, | Lecture with discussions |
| 25 | Addressing Modes, | 3.1.2020 | |
| 26,27 | Input/output Operations | 5.1.2020 ,6.1.2020 | |
| | | | |

### UNIT-IV: INPUT/OUTPUT ORGANIZATION

. CO1: Understand the architecture of a modern computer with its various processing units. Also the Performance measurement of the computer system.
TB: Computer Organization, Carl Hamacher, Zvonks Vranesic, Safea Zaky, 5th Edition, McGraw Hill...

| 28 | Accessing I/O Devices | 7.1.2020 | |
|---|---|---|---|
| 29 | Interrupts: Interrupt Hardware, | 23.1.2020 | |
| 30 | Enabling and Disabling Interrupts, Handling Multiple Devices | 24.1.2020 | Lecture with discussions |
| 31 | Direct Memory Access, | 25.1.2020 | |
| 32 | Buses: Synchronous Bus | 29.1.2020 | |
| 33 | , Asynchronous Bus | 1.2.2020 | |
| 34,35 | Interface Circuits, Standard I/O Interface | 13.2.2020 | |
| 36 | Peripheral Component Interconnect (PCI) Bus | 14.2.2020 | |
| 37 | Universal Serial Bus (USB) | 17.2.2020 | |
| | | | |

## UNIT-V: The MEMORY SYSTEMS

**CO1:** Understand the architecture of a modern computer with its various processing units. Also the Performance measurement of the computer system

**CO2:** In addition to this the memory management system of computer

**TB:** Computer Organization, Carl Hamacher, Zvonks Vranesic, Safea Zaky, 5th Edition, McGraw Hill...

| | | | |
|---|---|---|---|
| 38,39 | Basic memory circuits | 18.2.2020 | |
| 40 | Memory System Consideration | 24.2.2020 | |
| 41 | Read-Only Memory: ROM, | 25.2.2020 | Lecture with discussions |
| 42 | PROM, EPROM, EEPROM, Flash Memory, | 5.3.2020, | |
| 43 | Cache Memories: Mapping Functions, INTERLEAVING | 6.3.2020 | |
| 44 | **Secondary Storage:** Magnetic Hard Disks, Optical Disks, | 9.3.2020, | |

## UNIT-VI: Processing Unit & Micro programmed Control

**CO1:** Understand the architecture of a modern computer with its various processing units. Also the Performance measurement of the computer system.

**CO2:** In addition to this the memory management system of computer.

**TB:** Computer Organization, Carl Hamacher, Zvonks Vranesic, Safea Zaky, 5th Edition, McGraw Hill...

| | | | |
|---|---|---|---|
| 45,46 | Fundamental Concepts: Register Transfers | 10.3.2020 | |
| 47 | Performing An Arithmetic Or Logic Operation | 12.3.2020 | |
| 48 | Fetching A Word From Memory | 16.3.2020 | Lecture with discussions |
| 49 | Execution of Complete Instruction, Hardwired Control, | 17.3.2020 | |
| 50 | **Micro programmed Control:** Microinstructions, Micro program Sequencing, | 18.3.2020 | |
| 51-54 | Wide Branch Addressing Microinstructions with next –Address Field | 19,20 & 21.03.2020 | |

Faculty/Date 13|4|19

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

HOD/Date 13|4|19

# TENTATIVE PLAN: R1622123     AY:2019-20

| Course Title: OBJECT ORIENTED ANALYSIS & DESIGN USING UML(R1622123) | | | |
|---|---|---|---|
| Section   : IT | Date : 18~11~2019 | | Page No : 01 of 03 |
| Revision No : 00 | Prepared By : A.Veda Sri | | Approved By : HOD |

Tools : Black board, PPTs, Moodle

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT –I** | **Introduction** | | |
| **CO1: Ability to find solutions to the complex problems using object oriented approach** | | | |
| **TB : "Object- Oriented Analysis And Design with Applications", Grady BOOCH, Robert A. Maksimchuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, 3rd edition, 2013, PEARSON.** | | | |
| 1. | Introduction to Systems | 18/11/19 | Lecture interspersed with discussions |
| 2. | The Structure of Complex systems | 19/11/19 | |
| 3. | The Inherent Complexity of Software | 20/11/19 | |
| 4. | Attributes of Complex System, | 21/11/19 | |
| 5. | Organized and Disorganized Complexity | 22/11/19 23/11/19 | |
| 6. | Bringing Order to Chaos | 25/11/19 26/11/19 | |
| 7. | Designing Complex Systems | 27/11/19 | |
| 8. | Evolution of Object Model | 28/11/19 29/11/19 | |
| 9. | Foundation of Object Model | 30/11/19 2/12/19 | |
| 10. | Elements of Object Model | 3/12/19 4/12/19 | |
| 11. | Applying the Object Model | 5/12/19 6/12/19 | |

# TENTATIVE PLAN: R1622123     AY:2019-20

| Course Title: OBJECT ORIENTED ANALYSIS & DESIGN USING UML(R1622123) | | | |
|---|---|---|---|
| Section   : IT | Date : | | Page No : 01 of 03 |
| Revision No : 00 | Prepared By : A.Veda Sri | | Approved By : HOD |

Tools : Black board, PPTs

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT –II** | **Classes and Objects** | | |
| **⌐O2: Ability to find solutions to the complex problems using object oriented approach** | | | |
| "Object- Oriented Analysis And Design with Applications", Grady BOOCH, Robert A. ⌐chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, 3rd edition, ⌐RSON. | | | |
| | ⌐re of object | 9/12/19 | |
| | ⌐ships among objects | 10/12/19 | |
| | ⌐Class | 11/12/19 | |
| | | 12/12/19 | |
| | Classes | 13/12/19 | |

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| | | 16/12/19 | Lecture interspersed with discussions |
| 16 | Interplay of Classes and Objects | 17/12/19 | |
| | | 18/12/19 | |
| 17 | Identifying Classes and Objects | 19/12/19 | |
| 18 | Importance of Proper Classification | 20/12/19 | |
| 19 | Key abstractions and Mechanisms | 21/12/19 | |

## UNIT –III  Introduction to UML

**CO3: Represent classes, responsibilities and states using UML notation**

**TB : "The Unified Modeling Language User Guide", Grady Booch, James Rumbaugh, Ivar Jacobson, 12th Impression, 2012, PEARSON.**

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 20 | Introduction to UML | 23/12/19 | |
| 21 | Why we model | 24/12/19 | |
| 22 | Conceptual model of UML | 25/12/19 | |
| | | 26/12/19 | |
| 23 | Architecture | 27/12/19 | |
| 24 | Classes | 28/12/19 | |
| 25 | Relationships | 30/12/19 | Lecture interspersed with discussions |
| | | 2/1/20 | |
| 26 | Common Mechanisms | 3/1/20 | |
| | | 4/1/20 | |
| 27 | Class diagrams | 5/1/20 | |
| | | 6/1/20 | |
| 28 | Object diagrams | 13/1/20 | |
| | | 11 /1/20 | |

# TENTATIVE PLAN: R1622123   AY:2019-20

| Course Title: | OBJECT ORIENTED ANALYSIS & DESIGN USING UML(R1622123) | | |
|---|---|---|---|
| **Section : IT** | **Date :** | **Page No : 01 of 03** | |
| **Revision No : 00** | **Prepared By : A.Veda Sri** | **Approved By : HOD** | |

Tools : Black board, PPTs

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|

## UNIT –IV  Basic Behavioral Modeling

**CO4: Represent classes, responsibilities and states using UML notation**

**TB : "The Unified Modeling Language User Guide", Grady Booch, James Rumbaugh, Ivar Jacobson, 12th Impression, 2012, PEARSON.**

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 29 | Interactions | 24 /1/20 | |
| | | 25/1/20 | |
| 30 | Interaction diagrams | 27/1/20 | Lecture interspersed with discussions |
| | | 28/1/20 | |
| 31 | Use cases | 29/1/20 | |

| | | 30/1/20 | |
|---|---|---|---|
| 32 | Use case Diagrams | 31/1/20 | |
| | | 1/2/20 | |
| 33 | Activity Diagrams | 3/2/20 | |
| | | 4/2/20 | |

## UNIT –V     Advanced Behavioral Modeling

**CO5: Identify classes and responsibilities of the problem domain**

**TB : "The Unified Modeling Language User Guide", Grady Booch, James Rumbaugh, Ivar Jacobson, 12th Impression, 2012, PEARSON.**

| | | | |
|---|---|---|---|
| 34 | Events and signals | 5/2/20 | |
| | | 6/2/20 | |
| 35 | State machines | 7/2/20 | |
| | | 8/2/20 | |
| 36 | Processes and Threads | 10/2/20 | |
| | | 11/2/20 | Lecture interspersed with discussions |
| 37 | Time and space | 12/2/20 | |
| | | 13/2/20 | |
| 38 | State chart diagrams | 14/2/20 | |
| | | 15/2/20 | |
| 39 | Common Modelling Techniques | 17/2/20 | |
| | | 18/2/20 | |

## UNIT –VI     Architectural Modeling

**CO6: Identify classes and responsibilities of the problem domain**

**TB : Introduction to Database Systems, CJ Date, Pearson**

| | | | |
|---|---|---|---|
| 40 | Component | 19/2/20 | |
| | | 20/2/20 | |
| 41 | Common Modelling Techniques | 24/2/20 | |
| | | 25/2/20 | |
| 42 | Deployment | 26/2/20 | |
| | | 27/2/20 | |
| 43 | Common Modelling Techniques | 28/2/20 | |
| | | 29/2/20 | |
| 44 | Component diagrams | 2/3/20 | Lecture interspersed with discussions |
| | | 3/3/20 | |
| 45 | Common Modelling Techniques | 4/3/20 | |
| | | 5/3/20 | |
| 46 | Deployment diagrams | 6/3/20 | |
| | | 7/3/20 | |
| 47 | Common Modelling Techniques | 9/3/20 | |
| | | 11/3/20 | |
| 48 | Case Study: The Unified Library application. | 12/3/20 | |
| | | 13/3/20 | |

**Signature of the Faculty**    18/4/19       **Signature of the HOD**   18/4/19

| No. | | TOPIC | Date | Mode of Delivery |
|---|---|---|---|---|
| | | | 18/12/19 | |
| 18 | | Overloaded operators, type conversions | 19/12/19 | |
| 19 | | relational and Boolean expressions | 20/12/19 | |
| 20 | | assignment statements | 21/12/19 | |
| 21 | | mixed mode assignments, control structures – selection, iterations, guarded Statements | 21/12/19 | |

**UNIT -III: Subprograms and implementations**

**CO3:** Design and implement subprogram constructs, Apply object - oriented, concurrency, and event handling programming constructs

**TB :** Robert W. Sebesta, "Concepts of Programming Languages", Tenth Edition, Addison Wesley, 2012.

| No. | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 22 | Design issues | 23/12/19 | |
| 23 | Local referencing | 24/12/19 | |
| 24 | Parameter passing | 25/12/19 26/12/19 | |
| 25 | Overloaded methods | 27/12/19 | |
| 26 | Generic methods | 28/12/19 | |
| 27 | design issues for functions | 30/12/19 2/1/20 | Lecture interspersed with discussions |
| 28 | semantics of call and return | 3/1/20 4/1/20 | |
| 29 | implementing simple subprograms | 5/1/20 6/1/20 | |
| 30 | stack and dynamic local variables | 13/1/20 | |
| 31 | nested subprograms, blocks, dynamic scoping | 11 /1/20 | |

# LESSON PLAN: R1622056

| Course Title: PRINCIPLES OF PROGRAMMING LANGUAGES(R1622056) | | |
|---|---|---|
| Section : IT | Date : | AY:2019-20 |
| Revision No : 00 | Prepared By : G D K KISHORE | Approved By : HOD |

**Tools : Black board, PPTs**

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| UNIT -IV:Object- orientation,concurrency event handling: | | | |

**CO4:** Develop programs in Scheme, ML, and Prolog

**TB :** Robert W. Sebesta, "Concepts of Programming Languages", Tenth Edition, Addison Wesley, 2012.

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 32 | Object – orientation | 24 /1/20 25/1/20 | |
| 33 | design issues for OOP languages | 27/1/20 28/1/20 | Lecture interspersed with discussions |
| 34 | implementation of object | 29/1/20 30/1/20 | |
| 35 | oriented constructs, Monitors | 31/1/20 | |

| | | 1/2/20 | |
|---|---|---|---|
| 36 | Concurrency, Semaphores, message passing | 3/2/20 | |
| 37 | Threads, statement level concurrency, event handling | 4/2/20 | |

**UNIT -V:Functional programming languages**

**CO5:** Understand and adopt new programming languages

**TB :** Robert W. Sebesta, "Concepts of Programming Languages", Tenth Edition, Addison Wesley, 2012.

| | | | |
|---|---|---|---|
| 38 | Functional programming languages | 5/2/20<br>6/2/20 | Lecture interspersed with discussions |
| 39 | Introduction to lambda calculus | 7/2/20<br>8/2/20 | |
| 40 | Introduction to lambda calculus | 10/2/20<br>11/2/20 | |
| 41 | fundamentals of functional programming languages | 12/2/20<br>13/2/20 | |
| 42 | fundamentals of functional programming languages | 14/2/20<br>15/2/20 | |
| 43 | Programming with Scheme | 17/2/20 | |
| 44 | Programming with ML | 18/2/20 | |

**UNIT -VI:Logic programming languages: Introduction to logic logic programming**

**CO6:** Understand and adopt new programming languages

**TB :** Robert W. Sebesta, "Concepts of Programming Languages", Tenth Edition, Addison Wesley, 2012.

| | | | |
|---|---|---|---|
| 45 | Logic programming languages: Introduction to logic | 19/2/20<br>20/2/20 | |
| 46 | logic programming | 24/2/20<br>25/2/20 | |
| 47 | | 26/2/20<br>27/2/20 | |
| 48 | Programming with Prolog | 28/2/20<br>29/2/20 | |
| 49 | Programming with Prolog | 2/3/20<br>3/3/20 | Lecture interspersed with discussions |
| 50 | Programming with Prolog | 4/3/20<br>5/3/20 | |
| 51 | multi - paradigm languages | 6/3/20<br>7/3/20 | |
| 52 | multi paradigm languages | 9/3/20<br>11/3/20 | |
| 53 | multi paradigm languages | 12/3/20 | |
| 54 | multi - paradigm languages | 13/3/20 | |

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# TENTATIVE PLAN: R1632051

| Course Title: COMPUTER NETWORKS (R1632051) | | | |
|---|---|---|---|
| Section : IT | Date : 18 - 11 - 2019 | | AY: 2019-20 |
| Revision No : | Prepared By : M.SURESH BABU, Assistant Professor | | Approved By : HOD |

Tools : Black board, PPTs, Moodle

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT –I Introduction: Computer Network** | | | |
| **CO1: Understand state-of-the-art in network protocols, architectures, and applications.** | | | |
| **TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.** | | | |
| 1. | Introduction: | 18-11-2019 | Lecture interspersed with discussions |
| 2. | Network Topologies | 19-11-2019 | |
| 3. | WAN, LAN, MAN. | 20-11-2019 | |
| 4. | Reference models | 21-11-2019 | |
| 5. | The OSI Reference Model | 22-11-2019 | |
| 6. | the TCP/IP Reference Model - | 26-11-2019 | |
| 7. | A Comparison of the OSI and TCP/IP Reference Models | 28-11-2019 / 29-11-2019 | |

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT –II    Physical Layer** | | | |
| **CO2: Process of networking research.** | | | |
| **TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.** | | | |
| 8 | Physical Layer | 9-12-2019 | Lecture interspersed with discussions |
| 9 | Fourier Analysis | 10-12-2019 | |
| 10 | Bandwidth Limited Signals | 10-12-2019 | |
| 11 | The Maximum Data Rate of a Channel | 10-12-2019 | |
| 12 | Guided Transmission Media, | 10-12-2019 | |
| 13 | Digital Modulation and Multiplexing: | 10-12-2019 | |
| 14 | Frequency Division Multiplexing, | 11-12-2019 | |
| 15 | Time Division Multiplexing, | 12-12,13-12 | |
| 16 | Code Division Multiplexing | 16-12-2019 | |
| 17 | Data Link Layer Design Issues, | 17-12-2019 | |
| 18 | Error Detection and Correction, | 18-12-2019 | |
| 19 | Elementary Data Link Protocols, | 20-12-2019 | |
| 20 | Sliding Window Protocols | 20-12-2019 | |

## UNIT –III  The Data Link Layer
**CO3: Constraints and thought processes for networking research**
**TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.**

| | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 21 | The Data Link Layer - Services Provided to the Network Layer | 21-12-2019 | |
| 22 | Framing – Error Control –Flow Control | 23-12-2019 / 24-12-2019 | |
| 23 | Error Detection and Correction – Error-Correcting Codes | 25-12-2019 / 26-12-2019 | |
| 24 | Error Detecting Codes, | 27-12-2019 / 28-12-2019 | |
| 25 | Elementary Data Link Protocols- A Utopian Simplex Protocol | 30-12-2019 / 02-01-2020 | Lecture interspersed with discussions |
| 26 | A Simplex Stop and Wait Protocol for an Error free channel | 03-01-2020 / 04-01-2020 | |
| 27 | A Simplex Stop and Wait Protocol for a Noisy Channel, | 06-01-2020 | |
| 28 | Sliding Window Protocols-A One Bit Sliding Window Protocol | 07-01-2020 | |
| 29 | A Protocol Using Go-Back-NA | 08-01-2020 | |
| 30 | Protocol Using Selective Repeat | 11-01-2020 | |

## UNIT –IV  The Medium Access Control Sub layer
**CO4: Constraints and thought processes for networking research**
**TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.**

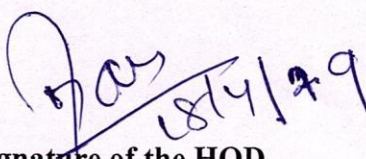| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 31,32 | The Medium Access Control Sub layer | 24-01-2020 / 25-01-2020 | |
| 33,34 | The Channel Allocation Problem-Static Channel Allocation-Assumptions for Dynamic Channel Allocation | 27-01-2020 / 28-01-2020 | |
| 33,36 | Multiple Access Protocols-Aloha-Carrier Sense Multiple Access Protocols | 29-01-2020 / 30-01-2020 | |
| 37,38 | Collision-Free Protocols-Limited Contention Protocols-Wireless LAN Protocols | 31-01-2020 / 01-02-2020 | Lecture interspersed with discussions |
| 39,40 | Ethernet-Classic Ethernet Physical Layer-Classic Ethernet MAC Sub layer Protocol | 03-02-2020 / 04-02-2020 | |
| 41,42,43 | Ethernet Performance-Fast Ethernet Gigabit Ethernet-10-Gigabit Ethernet- Retrospective on Ethernet | 05-02-2020 / 06-02-2020 / 07-02-2020 | |
| 43,44,45 | Wireless Lans-The 802.11 Architecture and Protocol Stack-The 802.11 Physical Layer-The802.11 MAC Sub layer Protocol-The 805.11 Frame Structure-Services | 10-02-2020 / 11-02-2020 / 14-02-2020 | |

## UNIT –V  The Network Layer Design Issues
### CO5: Problem Formulation—Approach—Analysis
**TB:** Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.
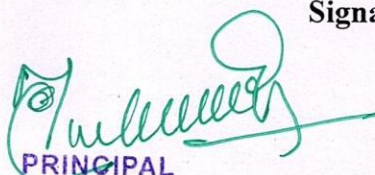
| | | | |
|---|---|---|---|
| 46 | Design Issues-The Network Layer Design Issues | 17-02-2020 | |
| 47,48 | Store and Forward Packet Switching-Services Provided to the Transport layer | 18-02-2020 <br> 19-02-2020 | |
| 49,50 | Implementation of Connectionless Service-Implementation of Connection Oriented Service | 20-02-2020 <br> 22-02-2020 | |
| 51,52 | Comparison of Virtual Circuit and Datagram Networks | 24-02-2020 <br> 25-02-2020 | Lecture interspersed with discussions |
| 53,54 | Routing Algorithms-The Optimality principle, Shortest path Algorithm | 26-02-2020 <br> 27-02-2020 | |
| 55,56 | Congestion Control Algorithms, Approaches to Congestion Control | 28-02-2020 <br> 29-02-2020 | |
| 57 | Traffic Aware Routing-Admission Control | 02-03-2020 | |
| 58 | Traffic Throttling-Load Shedding. | 04-03-2020 | |

## UNIT –VI   Transport Layer & Application Layer
### CO6: Problem Formulation—Approach—Analysis.
**TB:** Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.

| | | | |
|---|---|---|---|
| 59 | Transport Layer – The Internet Transport Protocols: Udp | 09-03-2020 | |
| 60 | the Internet Transport Protocols: Tc | 11-03-2020 | |
| 61 | Application Layer –The Domain Name System: | 13-03-2020 | |
| 62 | The DNS Name Space | 13-03-2020 | |
| 63 | Resource Records, Name Servers | 16-03-2020 | Lecture interspersed with discussions |
| 64 | Electronic Mail: Architecture and Services | 17-03-2020 | |
| 65 | The User Agent | 18-03-2020 | |
| 66 | Message Formats | 19-03-2020 | |
| 67 | Message Transfer | 20-03-2020 | |
| 68 | Final Delivery | 21-03-2020 | |

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## TENTATIVE LESSON PLAN: R1632121

| Course Title | DATA MINING | | |
|---|---|---|---|
| **Year /Sem : III/II** | **Date :** 18-11-2019 | | **AY:2019-20** |
| **Revision No :** | **Prepared By : S.PRANEETHA Assistant Professor** | | **Approved By : HOD** |

**Tools: Black Board,PPT, Video Lectures**

### UNIT-I Introduction
**CO1:**Understand stages in building a Data Warehouse.
**TEXT BOOK:**
1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 1 | **Introduction** | 18-11-2019 | Lecture with discussions |
| 2 | Why Data Mining? What Is Data Mining? | 19-11-2019 | |
| 3 | What Kinds of Data Can Be Mined? | 20-11-2019 | |
| 4 | What Kinds of Patterns Can Be Mined? | 21-11-2019 | |
| 5 | Which Technologies Are Used? | 22-11-2019 | |
| 6 | Major Issues in Data Mining. | 26-11-2019 | |
| 7,8 | Data Objects and Attribute Types | 28-11-2019,29-11-2019 | |
| 9,10 | Basic Statistical Descriptions of Data | 5-12-2019,6-12-2019 | |
| 11,12 | Data Visualization | 9-12-2019,10-12-2019 | |
| 13 | Measuring Data Similarity and | 11-12-2019 | |
| 14 | Tutorial | 12-12-2019 | |

### UNIT-II:Data Pre-processing
**CO2:**Gain knowledge about data preprocessing, and proximity measures on different data sets.
**TEXT BOOK:**
1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 15 | Data Preprocessing | 16-12-2019,17-12-2019 | Lecture with discussions |
| 16,17 | Data Cleaning | 18-12-2019,20-12-2019 | |
| 18 | Data Integration | 21-12-2019 | |
| 19,20 | Data Reduction | 23-12-2019, 24-12-2019 | |
| 21,22 | Data Transformation | 25-12-2019, 26-12-2019 | |
| 23 | Data Discretization | 27-12-2019 | |
| 24 | Tutorial | 28-12-2019 | |

### UNIT-III: Classification
**CO3:**Gain knowledge about basic concepts of classification and Decision Tree algorithm.
**TEXT BOOK:**
1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 25 | **Introduction toClassification** | 30-12-2019 | Lecture with discussions |
| 26 | Basic concepts | 31-12-2019 | |
| 27 | General approach to solving a classification | 02-01-2020 | |
| 28 | Decision tree induction | 03-01-2020 | |
| 29 | Working of decision tree | 04-01-2020 | |
| 30,31 | Building a decision tree | 06-01-2020,07-01-2020 | |

| 32 | Methods for expressing an attribute test conditions | 08-01-2020 | |
|----|----|----|----|
| 33 | Measures for selecting the best split | 09-01-2020 | |
| 34 | Algorithm for decision tree induction | 10-01-2020 | |
| 35 | Tutorial | 11-01-2020 | |

**UNIT-IV: ClassificationAlterative Techniques**
**CO4:**Gain knowledge about basic concepts of classification and Decision Tree algorithm
**TEXT BOOK:**
1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier

| 36 | Classification: Alterative Techniques | 24-01-2020 | |
|----|----|----|----|
| 37 | Bayes' Theorem, | 25-01-2020 | |
| 38,39 | Naïve Bayesian Classification, | 27-01-2020, 29-01-2020 | Lecture with discussions |
| 40 | Bayesian Belief Networks | 31-01-2020 | |
| 41 | Tutorial | 03-02-2020 | |

**UNIT-V: Association Analysis: Basic Concepts and Algorithms**
**CO5:**Analyze and evaluate performance of algorithms for Association Rules.

**TEXT BOOK:**

1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier .

| 42 | **Association Basic concepts** | 06-02-2020 | |
|----|----|----|----|
| 43 | Problem Defecation, | 10-02-2020 | |
| 44 | Frequent item set generation | 17-02-2020 | |
| 45 | Rule generation | 18-02-2020 | |
| 46,47 | Compact representation of frequent item sets | 19-02-2020,22-02-2020 | Lecture with discussions |
| 48 | FP-growth algorithm | 24-02-2020 | |
| 49 | Apriori example | 26-02-2020 | |
| 50 | Rule generation example | 28-02-2020 | |
| 51 | FP Growth Example | 29-02-2020 | |
| 52 | Analysis of FP Growth | 02-03-2020 | |
| 53 | Tutorial | 04-03-2020 | |

**UNIT-VI:Cluster Analysis: Basic Concepts and Algorithms**
**CO6:**Be able to understand Clustering techniques like K-Means, bisecting K-Means and additional issues of K-Means. Become familiar with Hierarchical clustering and density based clustering
**TEXT BOOK:**
1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier

| 54 | Basic concepts, cluster analysis | 05-03-2020 | |
|----|----|----|----|
| 55 | Different types of clustering | 06-03-2020 | |
| 56 | Different types of clusters | 09-03-2020 | |
| 57,58 | K-means,The basic K-means algorithm | 11-03-2020,12-03-2020 | Lecture with discussions |
| 59 | K-means: Additional issues, Bisection k-means | 13-03-2020 | |
| 60 | k-means and different types of clusters strengths and weaknesses | 14-03-2020 | |
| 61 | K-means as an optimization problem | 16-03-2020 | |

| 62. | Hierarchical clustering | 17-03-2020 | |
|------|------------------------------------------------------------------------------|----------------------------|---|
| 63,64 | Agglomerative hierarchical clustering algorithm, specific techniques | 18-03-2020,19-03-2020 | |
| 65 | DBSCAN, Traditional Density: Center-based | 20-03-2020 | |
| 66 | Tutorial | 21-03-2020 | |

**Faculty/Date**

**HOD**/Date

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# TENTATIVE PLAN: R1632122

| Course Title: WEB TECHNOLOGIES(R1632122) | | | |
|---|---|---|---|
| Section  : IT | Date : 18-11-2019 | AY:2019-20 | |
| Revision No : 00 | Prepared By : G D K KISHORE | Approved By : HOD | |

Tools : Black board, PPTs, Moodle

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT –I     HTML** | | | |
| **CO1:** Analyze a web page and identify its elements and attributes. | | | |
| **TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson** | | | |
| 1. | **Introduction** | 18-11-2019 | |
| 2. | Simple HTML Tags,Lists | 19-11-2019 | |
| 3. | Tables | 20-11-2019 | |
| 4. | Images,Frames | 21-11-2019 | |
| 5. | Forms | 22-11-2019 / 25-11-2019 | |
| 6. | Introduction to CSS, Selector, ID selecto, Examples | 26-11-2019 / 27-11-2019 | |
| 7. | Tutorial Hour | 28-11-2019 / 29-11-2019 | Lecture interspersed with discussions |
| 8. | Types of Style sheets, Examples | 30-11-2019 / 2-12-2019 | |
| 9. | Introduction to java script, variables,functions | 3-12-2019 / 4-12-2019 | |
| 10. | Objects in Javascript | 5-12-2019 / 6-12-2019 | |
| 11. | Tutorial Hour | 7-12-2019 | |
| 12. | Dynamic html with java script + Events | 7-12-2019 | |

# LESSON PLAN: R1632122

| Course Title: WEB TECHNOLOGIES(R1632122) | | | |
|---|---|---|---|
| Section  : IT | Date : | AY:2019-20 | |
| Revision No : 00 | Prepared By : G D K KISHORE | Approved By : HOD | |

Tools : Black board, PPTs

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT –II     XML** | | | |
| **CO2:** Create web pages using XHTML and Cascading Styles sheets | | | |
| **TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson** | | | |
| 13 | Introduction to XML, Working Rules | 9-12-2019 | |
| 14 | DTD | 10-12-2019 / 11-12-2019 | |
| 15 | Tutorial Hour | 12-12,13-12 | |
| 16 | XSD(Schema Definition) | 16-12-2019 | |

| No. |  |  | Date | Mode of Delivery |
|---|---|---|---|---|
|  |  |  | 17-12-2019 | Lecture interspersed with discussions |
| 17 | Document Object Model |  | 18-12-2019 |  |
| 18 | XSLT, DOM VS SAX |  | 20-12-2019 |  |

**UNIT –III     AJAX**

**CO3: Build dynamic web pages**

**CO6: write simple client-side scripts using AJAX**

**TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson**

| No. |  | Topic | Date | Mode of Delivery |
|---|---|---|---|---|
| 19 | Introduction to AJAX |  | 21-12-2019 |  |
| 20 | Tutorial Hour |  | 23-12-2019 |  |
|  |  |  | 24-12-2019 |  |
| 21 | AJAX XMLHttpRequest,, Response |  | 25-12-2019 |  |
|  |  |  | 26-12-2019 |  |
| 22 | AJAX Events |  | 27-12-2019 |  |
|  |  |  | 28-12-2019 |  |
| 23 | Integrating PHP and AJAX |  | 30-12-2019 | Lecture interspersed with discussions |
|  |  |  | 2-1-2020 |  |
| 24 | Tutorial Hour |  | 3-1-2020 |  |
|  |  |  | 4-1-2020 |  |
| 25 | Consuming WEB services in AJAX(UDDI,) |  | 6-1-2020 |  |
|  |  |  | 7-1-2020 |  |
| 26 | SOAP |  | 8-1-2020 |  |
| 27 | WSDL |  | 11-1-2020 |  |

# LESSON PLAN: R1632122

| Course Title: WEB TECHNOLOGIES(R1632122) | | | |
|---|---|---|---|
| Section   : IT | Date : | | AY:2019-20 |
| Revision No : 00 | Prepared By : G D K KISHORE | | Approved By : HOD |

Tools : Black board, PPTs

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|

**UNIT –IV     PHP**

**CO4: Build web applications using PHP.**

**TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson**

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 28 | **UNIT-IVIntroduction to PHP, Environment Setup, creating and Running PHP Script** | 24-1-2020 |  |
|  |  | 25-1-2020 |  |
| 29 | Working with variables and constants, data types and operators,Examples | 27-1-2020 |  |
|  |  | 28-1-2020 | Lecture interspersed with discussions |
| 30 | Controlling program flow—Conditional statements, Control statements | 29-1-2020 |  |

| | | 30-1-2020 | |
|---|---|---|---|
| 31 | Tutorial Hour | 31-1-2020 | |
| | | 1-2-2020 | |
| 32 | Arrays | 3-2-2020 | |
| | | 4-2-2020 | |
| 33 | functions | 5-2-2020 | |
| | | 6-2-2020 | |
| | | 7-2-2020 | |
| 34 | Working with databases | 10-2-2020 | |
| | | 11-2-2020 | |
| 35 | Working with databases | 14-2-2020 | |

## UNIT –V      PERL

## CO5: Programming through PERL and Ruby

## TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson

| | | | |
|---|---|---|---|
| 36 | **Introduction to PERL and Environment setup** | 17-2-2020 | |
| 37 | Tutorial Hour | 18-2-2020 | |
| | | 19-2-2020 | |
| 38 | Perl language elements | 20-2-2020 | |
| | | 22-2-2020 | |
| 39 | Interface with CGI | 24-2-2020 | |
| | | 25-2-2020 | |
| 40 | A from to mail program | 26-2-2020 | |
| | | 27-2-2020 | |
| 41 | Tutorial Hour | 28-2-2020 | Lecture interspersed with discussions |
| | | 29-2-2020 | |
| 42 | Simple page search | 2-3-2020 | |
| | | 3-3-2020 | |
| 43 | Simple page search | 4-3-2020 | |
| | | 5-3-2020 | |
| | | 7-3-2020 | |

## UNIT –VI      RUBY

## CO5: Programming through PERL and Ruby

## TB : Software Testing- Yogesh Singh, Camebridge

| | | | |
|---|---|---|---|
| 44 | **Introduction to Ruby, Environment Setup** | 9-3-2020 | |
| 45 | Variables, Types | 11-3-2020 | |
| 46 | Simple I/O | | Lecture interspersed with discussions |
| 47 | Control Flow | 13-3-2020 | |
| 48 | Arrays | 16-3-2020 | |
| 49 | Hashes | 17-3-2020 | |
| 50 | Methods | 18-3-2020 | |

| 51 | Classes | 19-3-2020 |
|----|---------|-----------|
| 52 | Iterator | 20-3-2020 |
| 53 | Pattern matching | 21-3-2020 |
| 54 | Pattern matching | 21-3-2020 |

**Signature of the Faculty**                    **Signature of the HOD**

PRINCIPAL
**SRK Institute of Technology**
ENIKEPADU, VIJAYAWADA-521 108

| Course Title: Software Testing Methodologies(R1632054) | | | |
|---|---|---|---|
| Section : IT | Date : 18-11-2019 | Page No : 01 of 04 | |
| Revision No : 00 | Prepared By : A.Veda Sri | Approved By : HOD | |

Tools : Black board, PPTs, Moodle

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| UNIT –I    Flow graphs and Path testing | | | |
| CO1: Understand the basic testing procedures. | | | |
| TB : Software testing techniques – Boris Beizer, Dreamtech, second edition. | | | |
| 1. | **Introduction** | 18-11-2019 | Lecture interspersed with discussions |
| 2. | Purpose of Testing | 19-11-2019 | |
| 3. | Dichotomies | 20-11-2019 | |
| 4. | Model for Testing | 21-11-2019 | |
| 5. | Consequences of Bugs | 22-11-2019  25-11-2019 | |
| 6. | Taxonomy of Bugs | 26-11-2019  27-11-2019 | |
| 7. | **Flow graphs and Path testing:** Basics Concepts of Path Testing | 28-11-2019  29-11-2019 | |
| 8. | Predicates Path Predicates And Achievable Paths | 30-11-2019  2-12-2019 | |
| 9. | Path Sensitizing | 3-12-2019  4-12-2019 | |
| 10. | Path Instrumentation | 5-12-2019  6-12-2019 | |
| 11. | Application of Path Testing | 7-12-2019 | |

| Course Title: Software Testing Methodologies(R1632054) | | | |
|---|---|---|---|
| Section : IT | Date : | Page No : 01 of 04 | |
| Revision No : 00 | Prepared By : A.Veda Sri | Approved By : HOD | |

Tools : Black board, PPTs

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| UNIT –II    Transaction Flow Testing, Dataflow testing | | | |
| CO2: Able to support in generating test cases and test suites | | | |
| TB : Software testing techniques – Boris Beizer, Dreamtech, second edition. | | | |
| 12 | **Transaction Flow Testing:** Transaction Flows | 9-12-2019 | |
| 13 | Transaction Flow Testing Techniques | 10-12-2019  11-12-2019 | |
| 14 | **Dataflow testing:** Basics of Dataflow Testing | 12-12,13-12 | |

| 15 | Strategies in Dataflow Testing | 16-12-2019 | Lecture interspersed with discussions |
|----|----|----|----|
| | | 17-12-2019 | |
| 16 | Application of Dataflow Testing | 18-12-2019 | |
| | | 20-12-2019 | |

**UNIT –III    Domain Testing ,Paths, Path products and Regular expressions**

**CO3: Able to support in generating test cases and test suites**

**TB : Software testing techniques – Boris Beizer, Dreamtech, second edition.**

| 17 | **Domain Testing:** Domains and Paths | 21-12-2019 | Lecture interspersed with discussions |
|----|----|----|----|
| 18 | Nice & Ugly Domains, Domain testing | 23-12-2019 | |
| | | 24-12-2019 | |
| 19 | Domains and Interfaces Testing | 25-12-2019 | |
| | | 26-12-2019 | |
| 20 | Domains and Testability | 27-12-2019 | |
| | | 28-12-2019 | |
| 21 | **Paths, Path products and Regular expressions:** Path Products & Path Expression | 30-12-2019 | |
| | | 2-1-2020 | |
| 22 | Reduction Procedure | 3-1-2020 | |
| | | 4-1-2020 | |
| 23 | Applications | 6-1-2020 | |
| | | 7-1-2020 | |
| 24 | Regular Expressions & Flow Anomaly Detection | 8-1-2020 | |
| | | 11-1-2020 | |

# TENTATIVE PLAN: R1632054     AY:2019-20

| Course Title: Software Testing Methodologies(R1632054) | | | |
|----|----|----|----|
| Section   : IT | Date : | | Page No : 01 of 04 |
| Revision No : 00 | Prepared By : A.Veda Sri | | Approved By : HOD |
| Tools : Black board, PPTs | | | |

| No. of Periods | TOPIC | Date | Mode of Delivery |
|----|----|----|----|

**UNIT –IV    Syntax Testing, Logic Based Testing**

**CO4: Able to test the applications manually by applying different testing methods and automation tools.**

**TB : Software testing techniques – Boris Beizer, Dreamtech, second edition.**

| No. of Periods | TOPIC | Date | Mode of Delivery |
|----|----|----|----|
| 25 | A Grammar for formats | 24-1-2020 | Lecture interspersed with discussions |
| | | 25-1-2020 | |
| 26 | Test Case Generation | 27-1-2020 | |
| | | 28-1-2020 | |
| 27 | Implementation and Application and Testability Tips. | 29-1-2020 | |
| | | 30-1-2020 | |

| | | | | |
|---|---|---|---|---|
| 28 | **Logic Based Testing:** Overview, Decision Tables | 31-1-2020 | | |
| | | 1-2-2020 | | |
| 29 | Path Expressions | 3-2-2020 | | |
| | | 4-2-2020 | | |
| 30 | KV Charts 3variables,4variables ,5 variables,6variables | 5-2-2020 | | |
| | | 6-2-2020 | | |
| | | 7-2-2020 | | |
| 31 | Specifications | 10-2-2020 | | |
| | | 11-2-2020 | | |
| | | 14-2-2020 | | |

**UNIT –V     State, State Graphs and Transition Testing, Graph Matrices and Application**

**CO5: Able to test the applications manually by applying different testing methods and automation tools.**

**TB : Software testing techniques – Boris Beizer, Dreamtech, second edition.**

| | | | |
|---|---|---|---|
| 32 | State Graphs, Good & Bad State Graphs | 17-2-2020 | |
| 33 | State Testing | 18-2-2020 | |
| | | 19-2-2020 | |
| 34 | Testability Tips | 20-2-2020 | |
| | | 22-2-2020 | |
| 35 | **Graph Matrices and Application:-**Motivational overview | 24-2-2020 | |
| | | 25-2-2020 | |
| 36 | Matrix Of Graph | 26-2-2020 | Lecture interspersed with discussions |
| | | 27-2-2020 | |
| 37 | Relations | 28-2-2020 | |
| | | 29-2-2020 | |
| 38 | Power Of A Matrix, | 2-3-2020 | |
| | | 3-3-2020 | |
| 39 | Node Reduction Algorithm | 4-3-2020 | |
| | | 5-3-2020 | |
| | | 7-3-2020 | |

**UNIT –VI     Software Testing Tools**

**CO6: Apply tools to resolve the problems in Real time environment**

**TB : Software Testing- Yogesh Singh, Camebridge**

| | | | |
|---|---|---|---|
| 40 | Automated Testing | 9-3-2020 | |
| 41 | Concepts of testing Automation | 11-3-2020 | |
| 42 | Introduction to list of tools like Win runner, Load Runner | | Lecture interspersed with discussions |
| 43 | Jmeter, About Win Runner ,Using Win runner, Mapping the GUI | 13-3-2020 | |
| 44 | Recording Test, Working with Test, Enhancing Test, | 16-3-2020 | |

| 45 | Checkpoints ,Test Script Language | 17-3-2020 |
|----|-----------------------------------|-----------|
| 46 | Putting it all together | 18-3-2020 |
| 47 | Running and Debugging Tests, | 19-3-2020 |
| 48 | Analyzing Results, | 20-3-2020 |
| 49 | Batch Tests, Rapid Test Script Wizard. | 21-3-2020 |

**Signature of the Faculty**  18/4/19

**Signature of the HOD**  18/4/20

| Course Title: OPERATION RESEARCH | | |
|---|---|---|
| Section : IT<br>Year /Sem : III/II | Date : 18-11-2019 | AY:2019-20 |
| Revision No : | Prepared By : G.SRILAKSHMI<br>Assistant Professor | Approved By : HOD |

Tools: Black Board , PPT , Video Lectures

**UNIT-I:Introduction to Operations Research**
CO1:Methodology of Operations Research
TB: P. Sankara Iyer,"Operations Research", Tata McGraw-Hill, 2008.

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 1 | **UNIT I:Introduction To O. R:** | 18-11-2019 | |
| 2 | Definition | 19-11-2019 | |
| 3 | Scope | 20-11-2019 | |
| 4 | Objectives | 21-11-2019 | |
| 5 | Phases | 22-11-2019 | |
| 6 | Models AndLimitations Of Operations Research | 26-11-2019 | |
| 7 | Linear Programming Problem: Formulation Of | 27-11-2019 | Lecture with discussions |
| 8 | Simple Method | 28-11-2019 | |
| 9 | Artificial Variables | 29-11-2019 | |
| 10 | Big-M Method | 30-11-2019 | |
| 11 | Two-Phase Method | 03-12-2019 | |
| 12 | Degeneracy And Unbound Solutions | 04-12-2019 | |
| 13 | Tutorials | 05-12-2019 | |

**UNIT-II:Transportation Problem**
CO2: Linear programming: solving methods, duality, and sensitivity analysis
TB: P. Sankara Iyer,"Operations Research", Tata McGraw-Hill, 2008.

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 14 | **UNIT II: Transportation Problem** | 07-12-2019 | |
| 15 | Formulation | 10-12-201 | |
| 16,17 | Balanced Transportation Problem | 11-12-2019,12-12-2019 | Lecture with discussions |
| 18 | Unbalanced Transportation Problem. | 16-12-2019,17-12-2019 | |
| 19,20,2 | **Finding Basic Feasible Solutions:** | 18-12-19,20-12-19,21-12-19 | |
| 22,23 | Optimality Test: The Stepping Stone Method | 23-12-2019,24-12-2019 | |
| 24 | Tutorials | 26-12-2019 | |

**UNIT-III: Assignment model.**
CO3:Integer Programming, Network flows
TB: . P. Sankara Iyer,"Operations Research", Tata McGraw-Hill, 2008.

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 26 | **UNIT-III:Assignment Model** | 27-12-2019 | |
| 27 | Formulation | 28-12-2019 | |
| 28,29,3 | Hungarian Method For Optimal Solution | 30-12-20, 31-12-19, 2-1-2020 | |
| 31 | Solving Unbalanced Problem | 3-1-2020 | Lecture with discussions |
| 32,33 | Traveling Salesman Problem And Assignment | 4-1-2020,6-1-2020 | |
| 34,35 | **Solution Of Sequencing Problem** | 7-1-2020,8-1-2020 | |
| 36,37 | Processing N Jobs Through 2 Machines | 09-1-2020 | |
| 38 | Processing N Jobs Through 3Machines | 10-1-2020 | |

| 39,40 | Processing 2 Jobs Through M Machines | 11-1-2020 | |
|---|---|---|---|
| 41 | Processing N Jobs Through M Machines | 24-1-2020 | |
| 42 | Tutorials | 24-1-2020 | |

**UNIT-IV:.Dynamic programming**
 **CO4:** Game theory. Dynamic programming.
**TB:** P. Sankara Iyer,"Operations Research", Tata McGraw-Hill, 2008.

| 43 | **Introduction Dynamic Programming** | 25-1-2020 | |
|---|---|---|---|
| 44 | Characteristics Of Dynamic Programming | 27-1-2020 | |
| 45,46, 47 | Dynamic Programming Approach For Priority Management Employment Smoothening, Capital Budgeting, Stage ,Coach/Shortest Path, Cargo Loading And Reliability Problems Games Theory. | 28-1-20,29-1-2020,30-1-2020 | Lecture with discussions |
| 48,49, 50,51 | Competitive Games, Rectangular Game, Saddle Point, Minimax (Maximin) Method Of Optimal Strategies, Value Of The Game. | 31-1-2020, 1-2-2020, 3-2-2020 4-2-2020 | |
| 52,53 | Solution Of Games With Saddle Points, Dominance Principle | 5-2-2020, 6-2-2020 | |
| 54,55 | Rectangular Games Without | 7-2-2020,10-2-2020 | |
| 56 | Tutorials | 11-2-2020 | |

**UNIT-V: Replacement Models.**
**CO5:.**Decision making under uncertainty and risk.
**TB:.** P. Sankara Iyer,"Operations Research", Tata McGraw-Hill, 2008.

| 57 | **UNIT-V: Replacement Models** | 14-2-2020 | |
|---|---|---|---|
| 58,59,60 | Replacement Of Items That Deteriorate Whose Maintenance Costs Increase | 17-2-20,18-2-2020,19-2-2020 | Lecture with discussions |
| 61,62 | **Replacement Of Items That Fail Suddenly:** | 20-2-2020,22-2-2020 | |
| 63,64 | Individual Replacement Policy, | 24-2-2020, 25-2-2020 | |
| 65,66,6 | Group Replacement Policy | 26-2-20, 27-2-2020, 28-2-2020 | |
| 68 | Tutorials | 29-2-2020 | |

**UNIT-VI:Inventory models**
 **CO6:**Multi-criteria decision techniques
**TB:** P. Sankara Iyer,"Operations Research", Tata McGraw-Hill, 2008.

| 69 | **UNIT-VI:nventory Models** | 2-3-2020 | |
|---|---|---|---|
| 70,71 | Inventory Costs | 3-3-2020,4-3-2020 | Lecture with discussions |
| 72,73 | Models With Deterministic Demand-Model | 5-3-2020, 7-3-2020 | |
| 74 | (A) Demand Rate | 9-3-2020 | |
| 75 | (B) Demand Rate Non-Uniform And Production | 11-3-2020 | |
| 76,77 | (C) Demand Rate Uniform And Production Rate | 13-3-2020, 16-3-2020 | |
| 78 | Tutorials | 19-3-2020 | |

Faculty/Date

HOD/Date 18/11/19

# TENTATIVE LESSON PLAN: R1642051

| Course Title: DISTRIBUTED SYSTEM | | | |
|---|---|---|---|
| Section : IV-II | Date : 18.11.2019 | | A.Y:2019-20 |
| Revision No : 00 | Prepared By : G.SRILAKSHMI | | Approved By : HOD |

Tools : Black board, PPTs, Moodle

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT-I  Characterization of Distributed Systems, System Models** | | | |
| **CO1:**  Develop a familiarity with distributed file systems | | | |
| **TEXT BOOK:** | | | |
| George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication | | | |
| 1 | Characterization of Distributed Systems | 18.11.2019 | Lecture interspersed with discussions |
| 2 | Examples of Distributed Systems | 20.11.2019 | |
| 3 | Trends in distributed systems | 21.11.2019 | |
| 4 | Resource Sharing and the Web | 22.11.2019 | |
| 5 | Challenges | 26.11.2019 | |
| 6 | **System Models:** Introduction | 27.11.2019 | |
| 7 | Architectural Models | 28.11.2019 | |
| 8 | Software Layers | 29.11.2019 | |
| 9 | System Architecture, variations | 2.12.2019 | |
| 10 | Interface and Objects | 4.12.2019 | |
| 11 | Design Requirements for Distributed Architectures | 5.12.2019 | |
| 12,13 | Fundamental Models-Interaction Model | 6.12.2019 7.12.2019 | |
| 13,14 | Failure Model | 10.12.2019 11.12.2019 | |
| 15 | Security Model | 12.12.2019 | |
| 16 | Tutorial classes | 13.12.2019 | |
| **UNIT-II  Interprocess Communication** | | | |
| **CO2:** | | | |
| Describe important characteristics of distributed systems and the salient architectural features of such systems | | | |
| **TEXT BOOK:** | | | |
| George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication | | | |
| 17 | **Interprocess Communication:** Introduction | 14.12.2019 | Lecture interspersed with discussions |
| 18,19 | The API for the Internet Protocols: The Characteristics of Interprocess communication | 16.12.2019 17.12.2019 | |
| 20 | Sockets | 18.12.2019 | |
| 21 | Udp datagram communication | 19.12.2019 | |
| 22 | TCP Stream Communication | 20.12.2019 | |
| 23,24 | External Data Representation and Marshalling; | 21.12.2019 23.12.2019 | |
| 25 | Client Server Communication; | 24.12.2019 | |
| 26,27 | Group Communication- IP Multicast implementation of group communication | 26.12.2019 27.12.2019 | |
| 28 | Reliability and Ordering of Multicast. | 28.12.2019 | |
| 29 | Tutorial classes | 30.12.2019 | |

# TENTATIVE LESSON PLAN: R1642051

| Course Title: DISTRIBUTED SYSTEM | | |
|---|---|---|
| **Section : IV-II** \| **Date :** | | **A.Y:2019-20** |
| **Revision No : 00** \| **Prepared By : G.SRILAKSHMI** | | **Approved By : HOD** |

Tools : Black board, PPTs, Moodle

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT-III: Distributed Objects and Remote Invocation** | | | |
| **CO3:** Describe important characteristics of distributed systems and the salient architectural features of such systems **TEXT BOOK:** George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication | | | |
| 30 | **Distributed Objects and Remote Invocation:** Introduction | 31.12.2019 | Lecture interspersed with discussions |
| 31 | Communication between Distributed Objects- Object Model | 2.1.2020 | |
| 32 | Distributed Object Model | 3.1.2020 | |
| 33 | Design Issues for RMI | 4.1.2020 | |
| 34,35 | Implementation of RMI | 6.1.2020 | |
| 36 | Distributed Garbage Collection | 7.1.2020 | |
| 37 | Remote Procedure Call | 9.1.2020 | |
| 38 | Events and Notifications | 10.1.2020 | |
| 39 | Case Study: JAVA RMI | 11.1.2020 | |
| 40 | Tutorial classes | 11.1.2020 | |

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT-IV  Operating System Support** | | | |
| **CO4:** Describe the features and applications of important standard protocols which are used in distributed systems **TEXT BOOK:** George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication | | | |
| 41 | **Operating System Support:** Introduction | 24.1.2020 | Lecture interspersed with discussions |
| 42 | The Operating System Layer | 28.1.2020 | |
| 43 | Protection | 01.02.2020 | |
| 44,45 | Processes and Threads: –Address Space | 05.02.2020 06.02.2020 | |
| 46,47 | Creation of a New Process | 07.02.2020 08.02.2020 | |
| 48 | Threads. | 12.02.2020 | |
| 49 | Tutorial classes | 15.02.2020 | |
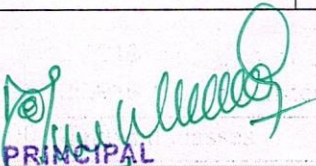
# TENTATIVE LESSON PLAN: R1642051

| Course Title: DISTRIBUTED SYSTEM | | |
|---|---|---|
| Section : IV-II | Date : | A.Y:2019-20 |
| Revision No : 00 | Prepared By : G.SRILAKSHMI | Approved By : HOD |

Tools : Black board, PPTs, Moodle

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| **UNIT-V  Distributed File Systems, Coordination and Agreement** | | | |

**CO 5:**

Describe the features and applications of important standard protocols which are used in distributed systems

**TEXT BOOK:**

George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 50 | **Distributed File Systems:** Introduction | 16.2.2020 | |
| 51 | File Service Architecture | 17.2.2020 | |
| 52 | Peer-to-Peer Systems: Introduction | 18.2.2020 | |
| 53 | Napster and its Legacy | 19.2.2020 | |
| 54 | Peer-to-Peer Middleware | 19.2.2020 | |
| 55 | Routing Overlays | 20.2.2020 | |
| 56 | Tutorial classes | 20.2.2020 | Lecture interspersed with discussions |
| 57 | **Coordination and Agreement:** Introduction | 21.2.2020 | |
| 58 | Distributed Mutual Exclusion | 24.2.2020 | |
| 59 | Algorithm for Mutual Exclusion | 25.2.2020 | |
| 60 | Elections(ring based) | 26.2.2020 | |
| 61 | The Bully algorithm | 27.2.2020 | |
| 62 | Multicast Communication. | 28.2.2020 | |
| 63 | Ordered multicast | 2.3.2020 | |
| 64 | Tutorial classes | 2.3.2020 | |

## UNIT-VI  Transactions & Replications

**CO6:** Gaining practical experience of inter process communication in a distributed environment.
**TEXT BOOK:**

George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---|---|---|---|
| 65 | **Transactions & Replications:** Introduction | 5.3.2020 | |
| 66 | System Model | 6.3.2020 | |
| 67 | Group Communication | 10.3.2020 | |
| 68 | Time ordering concurrency control | 11.3.2020 | |
| 69 | Optimistic concurrency control | 12.3.2020 | |
| 70 | Distributed Dead Locks | 13.3.2020 | Lecture interspersed with discussions |
| 71 | Transaction priorities | 16.3.2020 | |
| 72 | Transaction Recovery; Replication-Introduction | 17.3.2020 | |
| 73 | Passive (Primary) Replication | 18.3.2020 | |
| 74 | Active Replication. | 19.3.2020 | |
| 75 | Tutorial classes | 20.3.2020 | |

Signature of the Faculty                    Signature of the HOD

## SRK INSTITUTE OF TECHNOLOGY
### Enikepadu, Vijayawada 521108
### Department of Information Technology

### TENTATIIVE LESSION PLAN

# TENTATIVE LESSION PLAN :

| Course Title: MANAGEMENT SCIENCE(R1642052 ) | | | |
|---|---|---|---|
| Section: IT - I | Date : 20-11-19 | | Page No : 01 of 02 |
| Revision No : 00 | Prepared By : B.NAVEEN | | Approved By : HOD |

**Tools: Black board**

| No. of Periods (Actual Taken) | TOPIC | Date (Taught on) | Mode of Delivery |
|---|---|---|---|
| **UNIT –I    Introduction to Management** | | | |
| **CO1::** Able to understand the concept and nature of management, evaluation of management theories, motivation and leadership styles | | | |
| **TB ::** Dr. A. R. Aryasri, Management Science' TMH 2011. | | | |
| 1 | Introduction to management | 20-11-19 | |
| 1 | Nature & importance of management | 23-11-19 | |
| 1 | Generic function of management | 24-11-19 | Lecture interspersed with Discussions |
| 1 | Evaluation of management thoughts | 26-11-19 | |
| 1 | Motivation theories | 27-11-19 | |
| 1 | Decision making process | 28-11-19 | |
| 1 | Designing organization structure | 29-11-19 | |
| 1 | Principles & types of organization | 30-11-19 | |
| 1 | Organization  typology | 01-12-19 | |
| 1 | Global leadership | 03-12-19 | |
| 1 | Principals and types of management | 04-12-19 | |
| **UNIT –II  : Operations Management** | | | |
| **CO2::** Able to equip with concepts of operations, project management and inventory control | | | |
| **TB ::** Dr. A. R. Aryasri, Management Science' TMH 2011. | | | |
| 1 | Work study | 05-12-19 | |
| 1 | Statistical quality control | 06-12-19 | |
| 1 | Control charts | 14-12-19 | Lecture interspersed with discussions |
| 1 | Problems On Control Charts | -12-19 | |
| 1 | Material Management | 22-12-19 | |
| 1 | Need For Inventory Control | 28-12-19 | |
| 1 | EOQ And ABC Analysis | 02-1-20 | |
| 1 | Problems On EOQ | 04-01-20 | |
| 1 | Other Methods Of EOQ | 05-01-20 | |

**UNIT-III: Functional management**

**CO3::** Able to understand the different functional areas in an organization and their responsibilities- product life cycle and channels of distribution

**TB ::** Dr. A. R. Aryasri, Management Science' TMH 2011

| | | | |
|---|---|---|---|
| 1 | Concept of HRM,HRD and PMIR | 05/01/20 | Lecture interspersed with discussions |
| 1 | Functions of HRM | 19-01-20 | |
| 1 | Wage payment plans | 19-01-20 | |
| 1 | Job evolution Vs merit rating | 21-01-20 | |
| 1 | Marketing management functions | 22-01-20 | |
| 1 | Marketing strategies based on plc | 23-01-20 | |
| 1 | Channels of distribution | 25-01-20 | |
| 1 | Operational change management | 29-01-20 | |
| 1 | Functions of marketing | 30-01-20 | |

**UNIT-IV:Project Management**

**CO4::** Able to equip with different techniques in project management, ie PERT and CPM and project crashing

**TB ::** Dr. A. R. Aryasri, Management Science' TMH 2011

| | | | |
|---|---|---|---|
| 1 | Introduction to PERT and CPM | 07-02-20 | Lecture interspersed with discussions |
| 1 | Development of network diagram | 08-02-20 | |
| 1 | Difference between pert and CPM | 13-02-20 | |
| 1 | Identifying critical part | 15-02-20 | |
| 1 | probability | 16-02-20 | |
| 1 | Project crashing simple problems | 20-02-20 | |
| 1 | Problems | 20-02-20 | |

**UNIT-V:Strategic Management**

**CO5::** Able to equip with the concept and practical issues relating to strategic management

**TB ::** Dr. A. R. Aryasri, Management Science' TMH 2011

| | | | |
|---|---|---|---|
| 1 | Vision, mission, goals and strategy | 22-02-20 | Lecture interspersed with discussions |
| 1 | Elements of corporate planning process | 23-02-20 | |
| 1 | SWOT analysis | 25-02-20 | |
| 1 | Steps in strategic formulation and implementation | 26-02-20 | |
| 1 | Generic strategy and global strategy | 27-02-20 | |
| 1 | Theories of MNCs | 01-03-20 | |
| 1 | Environmental scanning | 02-03-20 | |

**UNIT-VI: Contemporary Management Practices**

**CO6::** Able to equip with the contemporary management practices,

**TB::** Dr. A. R. Aryasri, Management Science' TMH 2011

| | | | |
|---|---|---|---|
| 1 | Basic concepts of MIS | 05-03-20 | Lecture interspersed with |
| 1 | Total quality management | 06-03-20 | |
| 1 | Six sigma | 08-03-20 | |
| 1 | Supply chain management | 08-03-20 | |

| 1 | Enterprise resource planning | 11-03-20 | discussions |
|---|---|---|---|
| 1 | Business process outsources | 12-03-20 | |
| 1 | Business process re-engineering | 13-03-20 | |
| 1 | Bench Marking | 14-03-20 | |
| 1 | Balanced Score Card | 15-03-20 | |
| 1 | Material Requirement Planning | 16-03-20 | |
| 1 | Total quality management | 19-03-20 | |

**Signature of the Faculty**

**Signature of the HOD**

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# TENTAIVE PLAN

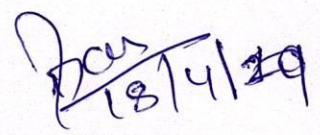| Course Title: MANAGEMENT INFORMATION SYSTEMS(R1642121) | | |
|---|---|---|
| Section  : IT<br>Year /Sem : IV/II | Date :  18.11.2019 | AY: 2019-20 |
| Revision No : | Prepared By : Amritha mishra, Assistant Professor | Approved By : HOD |

### Tools: Black Board , PPT , Video Lectures

## UNIT-I: Information System And Organization.

**CO1:** MIS brings to the notice of the management strength (i.e., strong points) of the organization, to take advantage of the opportunities available.

**TB:** Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004..

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 1 | Matching the Information System Plan to the Organizational Strategic Plan | 18.11.2019 | Lecture with discussions |
| 2 | Identifying Key Organizational Objective | 20.11.2019 | |
| 3 | Processes and Developing an Information System Development | 21.11.2019,22.11.2019 | |
| 4,5 | User role in Systems Development Process. | 23.11.2019,26.11.2019 | |
| 6,7 | Maintainability in System Design.. | ,27.11.2019,29.11.2019, | |
| 8 | Recoverability in System Design.. | 2.12.2019 ,4.12.2019 | |

## UNIT-II:Representation And Analysis Of System Structure

**CO2:** MIS brings to the notice of the management strength (i.e., strong points) of the organization, to take advantage of the opportunities available.

**TB:** Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004...

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 9,10 | Models for Representing Systems | 07&10.12.2019 | Lecture with discussions |
| 11,12 | Mathematical | 16.12.2019, 17.12.2019 | |
| 13 | Graphical | 18.12.2019 | |
| 14 | Hierarchical organization Chart | 21.12.2019 | |
| 15 | Information Flow | 23.12.2019 | |
| 16 | Process Flow | 23.12.2019 | |

| 17 | Methods and Heuristics | 24.12.2019 | |
|---|---|---|---|
| 18 | Information Architecture | 26.12.2019 | |
| 19 | Application of System Representation to Case Studies. | 27.12.2019 | |
| | | | |

**UNIT-III: Systems, Information and Decision Theory**

**CO3:** MIS brings to the notice of the management strength (i.e., strong points) of the organization, to take advantage of the opportunities available.

**TB:** Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004...

| 20 | Information Theory | 29.12.2019 | |
|---|---|---|---|
| 21 | Information Content and Redundancy | 30.12.2020 | Lecture with discussions |
| 22 | Classification and Compression | 2.1.2020, | |
| 23 | Summarizing and Filtering | 3.1.2020 | |
| 24,25 | Inferences and Uncertainty. | 5.1.2020 ,6.1.2020 | |
| | | | |

**UNIT-IV: Identifying Information needed to Support Decision Making**

**CO4:** MIS reports on production statistics regarding rejection, defective and spoilage and their effect on costs and quality of the products.
**TB:** Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004.

| 26 | **Identifying Information needed to Support Decision Making** | 7.1.2020 | |
|---|---|---|---|
| 27,28 | Human Factors | 23.1.2020,24.1.2020 | Lecture with discussions |
| 29,30 | Problem characteristics | 25.1.2020,29.1.2020 | |
| 31 | Information System Capabilities in Decision Making | 1.2.2020 | |

**UNIT-V: Information System Application**

**CO5:** MIS reports on production statistics regarding rejection, defective and spoilage and their effect on costs and quality of the products.
**TB:** Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004

| 34 | Transaction Processing Applications | 13.2.2020 | |
|---|---|---|---|
| 35 | Basic Accounting Application | 14.2.2020 | Lecture with discussions |
| 36 | Applications for Budgeting and Planning | 17.2.2020 | |

| 37 | Other use of Information Technology | 18.2.2020 | |
|----|-----|-----|-----|
| 38 | Automation – Word Processing – Electronic Mail – Evaluation Remote Conferencing and Graphics | 24.2.2020 | |
| 39 | System and Selection – Cost Benefit- Centralized versus Decentralized Allocation Mechanism. | 25.2.2020 | |

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**UNIT-VI: Development And Maintenance Of Information Systems**

**CO6:** MIS reports on production statistics regarding rejection, defective and spoilage and their effect on costs and quality of the products.

**TB:** Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004

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| 40,41 | Systems analysis and design | 5.3.2020, 6.3.2020 | |
|----|-----|-----|-----|
| 42,43 | System development life cycle- Limitation | 9.3.2020, 10.3.2020 | |
| 44 | End user Development | 12.3.2020 | Lecture with discussions |
| 45 | Managing End Users | 16.3.2020 | |
| 46 | off– the shelf software packages | 17.3.2020 | |
| 47-51 | Outsourcing – Comparison of different methodologies. | 17.03.2020 to 21.03.2020 | |

**Faculty**/ Date

**HOD**/Date

# TENTAIVE PLAN : R164205B

| Course Title: ARTIFICIAL NEURAL NETWORKS | | |
|---|---|---|
| Section  : IT<br>Year /Sem : IV/II | Date :  18.11.2019 | AY: 2019-20 |
| Revision No : | Prepared By : M Rambhupal , Assistant Professor | Approved By : HOD |

**Tools: Black Board , PPT , Video Lectures**

## UNIT-I: Introduction and ANN Structure.
**CO1:** Understand the role of neural networks in engineering, artificial intelligence, and cognitive modelling
**TB:** "Neural Networks: A comprehensive foundation",Second Edition, PearsonEducation Asia.

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 1 | **Introduction and ANN Structure.** | 18.11.2019 | Lecture with discussions |
| 2 | Biological neurons and artificial neurons | 20.11.2019 | |
| 3 | Model of an ANN. | 21.11.2019 | |
| 4,5 | Activation functions used in ANNs. | 22.11.2019, 23.11.2019 | |
| 6,7 | Typical classes of network architectures. | 26.11.2019, 27.11.2019 | |
| 8 | Single leyer | 29.11.2019, | |
| 9,10 | Multilayer , Recurrent Layer | 2.12.2019 ,4.12.2019 | |

## UNIT-II:Mathematical Foundations and Learning mechanisms
**CO2:** Provide knowledge of supervised learning in neural networks
**TB:** "Neural Networks: A comprehensive foundation",Second Edition, PearsonEducation Asia.

| No.of Periods | Topic | Date | Mode of delivry |
|---|---|---|---|
| 11,12 | Mathematical Foundations and Learning mechanisms | 07&10.12.2019 | Lecture with discussions |
| 13,14 | Re-visiting vector | 16.12.2019, 17.12.2019 | |
| 15 | matrix algebra. | 18.12.2019 | |
| 16 | State-space concepts | 21.12.2019 | |
| 17 | Concepts of optimization | 23.12.2019 | |
| 18 | Error-correction learning | 23.12.2019 | |
| 19 | Memory-based learning. | 24.12.2019 | |

| 20 | Hebbian learning | 26.12.2019 | |
| 21 | Competitive learning. | 27.12.2019 | |
| | | | |

## UNIT-III: Single layer perceptrons
**CO1:** Provide knowledge of computation and dynamical systems using neural networks
**TB:** "Neural Networks: A comprehensive foundation",Second Edition, PearsonEducation Asia.

| 22 | Single layer perceptrons | 29.12.2019 | |
| 23 | Structure and learning of perceptrons. | 30.12.2020 | |
| 24 | Pattern classifier – introduction and Bayes' classifiers | 2.1.2020, | Lecture with discussions |
| 25 | Perceptron as a pattern classifier | 3.1.2020 | |
| 26,27 | Perceptron convergence. Limitations of a perceptrons. | 5.1.2020 ,6.1.2020 | |
| | | | |

## UNIT-IV: Feed forward ANN.
**CO1:** Provide knowledge of reinforcement learning using neural networks
**TB:** Satish Kumar, "Neural Networks: A classroom approach", Tata McGraw Hill, 2004.

| 28 | **Feed forward ANN.** | 7.1.2020 | |
| 29 | Structures of Multi-layer feed forward networks | 23.1.2020 | |
| 30 | Back propagation algorithm | 24.1.2020 | |
| 31 | Back propagation training and convergence | 25.1.2020 | Lecture with discussions |
| 32 | Functional approximation with back propagation | 29.1.2020 | |
| 33 | Practical and design issues of back propagation learning. | 1.2.2020 | |

## UNIT-V: Radial Basis Function Networks
**CO5:** Provide knowledge of unsupervised learning using neural networks.
**TB:** Satish Kumar, "Neural Networks: A classroom approach", Tata McGraw Hill, 2004.

| 34 | **Radial Basis Function Networks** | 13.2.2020 | |
| 35 | Pattern separability and interpolation | 14.2.2020 | Lecture with discussions |
| 36 | Regularization Theory. | 17.2.2020 | |
| 37 | Regularization and RBF networks | 18.2.2020 | |

| | | | |
|---|---|---|---|
| 38 | RBF network design and training | 24.2.2020 | |
| 39 | Approximation properties of RBF. | 25.2.2020 | |

**UNIT-VI: Support Vector machines**
**CO6: Provide hands-on experience in selected applications.**
**TB: Satish Kumar, "Neural Networks: A classroom approach", Tata McGraw Hill, 2004.**

| | | | |
|---|---|---|---|
| 40,41 | **Support Vector machines** | 5.3.2020, 6.3.2020 | Lecture with discussions |
| 42,43 | Linear separability and optimal hyperplane | 9.3.2020, 10.3.2020 | |
| 44 | Determination of optimal hyperplane | 12.3.2020 | |
| 45 | Optimal hyperplane for nonseparable patterns | 16.3.2020 | |
| 46 | Design of a SVM. Examples of SVM. | 17.3.2020 | |
| 47-51 | Revision | 17.03.2020 to 21.03.2020 | |

Faculty/ Date   13/4/19

HOD/Date   13/4/19

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