| 23 | Data Reduction: Data cube aggregation | |
|----|---------------------------------------|------------|
| 24 | Attribute Subset Selection | |
| 25 | Numerosity reduction | |
| 26 | Dimensionality reduction:PCA | |
| 27 | Wavelet Transformation | |
| 28 | Data Transformation | |
| 29 | Data Discretization | |
| 30 | Overview of Data Pre-Processing | THE STREET |
| 31 | Tutorial | |
| | | |

UNIT-III: Classification

CO3: Choose appropriate classification technique to perform classification, model building and evaluation.

TEXT BOOK:

1. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier, 2011.

2. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson, 2012.

| 32 | Introduction to Classification | | |
|----|---|-------------------|-------------------------------------|
| 33 | Basic Concepts | | |
| 34 | General Approach to solving a classification problem | | |
| 35 | Hunt's Algorithm | | Onboard Lecture |
| 36 | Methods for selecting best test conditions | | |
| 37 | Attribute Selection Measures | | interspersed with discussions / PPT |
| 38 | Entropy, Classification Error | From: | |
| 39 | Information gain | To: 16-10-2023 | |
| 40 | Gain ratio | | |
| 41 | Building of Decision Tree with Example | | |
| 42 | Tree Pruning | | |
| 43 | Scalability and Decision Tree Induction | | |
| 44 | Visual Mining for Decision Tree Induction. | | |
| 45 | Methodology of Visual Data Mining: Association Rules | | |
| 46 | Classification, clustering | | 1631 5 377 |
| 47 | Tutorial | | |
| - | | * | |

UNIT-IV Association Analysis

CO4: Make use of association rule mining techniques viz. Apriori and FP Growth algorithms and analyze on frequent item sets generation.

TEXT BOOK:

1. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier, 2011.

Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson, 2012.

| 48 | Association Analysis | | |
|----|---|---|--|
| 49 | Problem Definition, Support and Confidence | | Onboard Lecture interspersed with discussions / PPT |
| 50 | Frequent Item set Generation | 1 1 1 1 1 1 | |
| 51 | Rule Generation | | |
| 52 | Confident Based Pruning | From: 17-10-2023 To: 7-11-2023 | |
| 53 | Rule Generation in Apriori Algorithm | | |
| 54 | Generating Association Rules from Frequent Item sets | | |
| 55 | Mining Frequent Item sets Using the Vertical Data Format | | |

| 21 | Isolation Levels | |
|----|---|-------------|
| 22 | Online Analytical Processing | Tell 1 |
| 23 | Database performance Tuning and Query optimization | |
| 24 | Query Tree | |
| 25 | Cost of Query | |
| 26 | Join | 100 E O THE |
| 27 | Selection and Projection Implementation Algorithms | A STATE |
| 28 | Optimization Database Security | |
| 29 | Access Control | - 1 |
| 30 | MAC | |
| 31 | RBAC | THE DAY |
| 32 | Authorization | |
| 33 | Sql injection attacks | 1 13 1 |
| 34 | Tutorial | 3 24 5 |
| _ | | |

NIT-III: Data Mining, Data warehousing, Data processing

CO3: Summarize the concepts of data mining, data warehousing and data preprocessing strategies.
Text Books:

- Fundamentals of Database Systems, RamezElmasri, Shamkant B. Navathe, Addison-Wesley,6th

 Edition
- Data Mining: Concepts and Techniques, J. Han and M. Kamber, Morgan Kaufmann C.J. Date, Database Systems, Pearson, 3rd edition

| 35 | Data Mining: stages and Techniques | | (315) |
|----|---------------------------------------|--|---|
| 36 | Knowledge representation methods | | Lecture interspersed |
| 37 | data mining approaches | | |
| 38 | data warehouse and DBMS | From: | with discussions |
| 39 | multidimensional data model | 15-9-2023 | |
| 40 | OLAP operations | To: 16-10-2023 | |
| 41 | Data processing: cleaning | | P Magain |
| 42 | transformation | | 1200 |
| 43 | reduction | | DE BURGO |
| 94 | filters and discretization with weka. | -1111 | 100 |
| 44 | Tutorial | | Part of the state |
| | | THE STATE OF THE S | |

UNIT-IV: Knowledge representation, Data mining algorithm

CO4: Apply data mining algorithms.

Text Books:

- 1. Fundamentals of Database Systems, RamezElmasri, Shamkant B. Navathe, Addison-Wesley,6th 7 Edition
- Data Mining: Concepts and Techniques, J. Han and M. Kamber, Morgan Kaufmann C.J. Date, Database Systems, Pearson, 3rd edition

| 45 | Knowledge representation: background knowledge | | |
|----|--|--|---|
| 46 | representing input data and output knowledge | | Lecture interspersed with discussions |
| 47 | visualization techniques | | |
| 48 | experiments with weka | | |
| 49 | Data mining algorithms: association rules | | 2. 10 . 2 - 6 |
| 50 | mining weather data | | PER |

| 51 | generating item sets and rules efficiently | |
|----|--|--|
| 52 | correlation analysis | |
| 53 | Tutorial. | |

UNIT-V: Classification & Clustering, Mining real data CO 5: Assess various classification & cluster techniques.

Text Books:

- Fundamentals of Database Systems, RamezElmasri, Shamkant B. Navathe, Addison-Wesley,6th

 Edition
- Data Mining: Concepts and Techniques, J. Han and M. Kamber, Morgan Kaufmann C.J. Date, Database Systems, Pearson, 3rd edition

| 27000 | ouse of sterios, i carson, sid cultion | | |
|-------|---|--------------------------------|----------------------|
| 54 | Classification & Clustering: 1R algorithm | | |
| 55 | decision trees | 1 | Lecture interspersed |
| 56 | covering rules | | |
| 57 | task prediction | | |
| 58 | Statistical classification | | with discussions |
| • | Bayesian network | | |
| 60 | instance based methods | | |
| 61 | linear models | From: | |
| 62 | Cluster/2 | 8-11-2023 To: 18-11-2023 | |
| 63 | Cobweb | | |
| 64 | k-means | | |
| 65 | Hierarchical methods | | |
| 66 | Mining real data: preprocessing data from a real medical domain | | |
| 67 | data mining techniques to create a comprehensive and accurate model of data. | | |
| 68 | Advanced topics: text mining | | |
| 8 | Text classification | | |
| 70 | web mining | | |
| 71 | data mining software | | |
| 72 | Tutorial | | |

Signature of the Faculty

Signature of the HOD



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DEPARTMENT OF INFORMATION TECHNOLOGY

TENTATIVE LESSON PLAN

Course/Code: Data Base Management Systems/R2021121

Year / Semester: II/I

Section: 1

A.Y: 2023-24

| No. of Periods | TOPIC | Date | Mode of Delivery |
|-------------------|---|------------------------------|---------------------------------------|
| CO1 : Des | Introduction: Database system scribe a relational database and object-oriented dat base Management Systems, 3/e, Raghurama Krishr | abase nan, Johannes Gehrk | e, TMH |
| - | Introduction: Database system | | |
| 2 | Characteristics (Database Vs File System) | 1970 | |
| 3 | Database Users(Actors on Scene, Workers behind the scene) | | |
| 4 | Advantages of Database systems | | |
| 5 | Database applications | Land Street | |
| 6 | Brief introduction of different Data Models | From: 7/8/2023 | Lecture interspersed with discussions |
| 7 | Concepts of Schema, Instance and data independence | To: 24/8/2023 | |
| 8 | Three tier schema architecture for data independence | | |
| 9 | Database system structure, environment | | |
| 10 | Centralized and Client Server architecture for the database. | | |
| 11 | Tutorial | | A STATE STATE OF |
| CO2: Crea | Relational Model te, maintain and manipulate a relational database use System Concepts,5/e, Silberschatz, Korth, TMI Relational Model: Introduction to relational model | 1 | |
| 12 | concepts of domain, attribute, tuple, relation importance of null values | From: 26/8/2023 | Lecture interspersed |
| 13 | constraints (Domain, Key constraints, integr constraints) and their importance BASIC SC | rity To: 6/9/2023 | with disquesions |
| 14 | Simple Database schema, data types, table | | |

| | definitions |
|----|--|
| 15 | DML operations (insert, delete, update) |
| 16 | Basic SQL querying (select and project) using where clause, arithmetic & logical operations |
| 17 | SQL functions(Date and Time, Numeric, String conversion) |
| 18 | Tutorial |

UNIT-III: Entity Relationship Model

CO 3: Describe ER model and normalization for database design

TB: Database Management Systems, 3/e, Raghurama Krishnan, Johannes Gehrke, TMH

| 19 | Entity Relationship Model: Introduction | GIE HAS | | Langue H |
|----|---|------------------------------------|---------------------------------------|----------|
| 20 | Representation of entities, attributes, entity set | | Lecture interspersed with discussions | |
| 21 | relationship, relationship set | 75250 | | |
| 22 | constraints, sub classes, super class | 1. | | |
| 23 | Inheritance, specialization, generalization using ER Diagrams | From: 8/9/2023 To: 29/9/2023 | | |
| 24 | SQL: Creating tables with relationship | | | |
| 25 | implementation of key and integrity constraints | 1012///2025 | | |
| 26 | nested queries, sub queries, grouping, aggregation, ordering | | | |
| 27 | Implementation of different types of joins, view (updatable and non-updatable) | | | |
| 28 | Relational set operations. | | | |
| 29 | Tutorial | | PROPERTY STATES | |

UNIT IV: Schema Refinement (Normalization)

CO4: Examine issues in data storage and query processing and can formulate appropriate solutions TB: Database System Concepts, 5/e, Silberschatz, Korth, TMH

| 30 | Schema Refinement (Normalization) | From: 11/10/2023 To: 26/10/2023 | Lecture interspersed with discussions |
|----|--|--|---------------------------------------|
| 31 | Purpose of Normalization or schema refinement, concept of functional dependency | | |
| 32 | Normal forms based on functional dependency(1NF, 2NF and 3 NF) | | |
| 33 | concept of surrogate key, Boyce-codd normal form(BCNF) | | |
| 34 | Lossless join and dependency preserving decomposition | | |
| 35 | Fourth normal form(4NF) | | |
| 36 | Fifth Normal Form (5NF) | | |
| 37 | Tutorial | | |

UNIT 5: Transaction Concept
CO5: Outline the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, and strategic advantage

TB:-Database Management Systems, 3/e, Raghurama Krishnan, Johannes Gehrke, TMH

| 38 | Transaction Concept: Transaction State | | Property of |
|----|---|-------------|--|
| 39 | Implementation of Atomicity and Durability | | |
| 40 | Concurrent Executions, Scrializability, Recoverability | | |
| 41 | Implementation of Isolation, Testing for Serializability | From: | |
| 42 | Implementation of Isolation, Testing for Serializability | 27/10/2023 | |
| 43 | Recovery algorithm | To: | Lecture interspersed with discussions |
| 44 | Indexing Techniques: B+ Trees: Search, Insert, Delete algorithms | 24/11/2023 | with discussions |
| 45 | File Organization and Indexing, Cluster Indexes | The same of | |
| 46 | Cluster Indexes, Primary and Secondary Indexes | 3877 | |
| 47 | Index data Structures, Hash Based Indexing | | 189 RIVE |
| 48 | Tree base Indexing ,Comparison of File Organizations, Indexes and Performance Tuning | | |
| 49 | Tutorial | 5 | |

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DEPARTMENT OF INFORMATION TECHNOLOGY

TENTATIVE LESSON PLAN

Course/Code: Sustainable Energy Technologies / R203103G

Year / Semester: III/I Section: --- A V: 2023-2.

| Year/ | Semester: III/I Section: | A.Y: | 2023-24 |
|-------------------------|---|--------------|---------------------|
| S.No | TOPIC | Date | Mode of Delivery |
| CO1: 0 | SOLAR RADIATION, SOLAR ENERGY COLLECTIONS Categorize the importance of solar energy collection & storage termine solar radiation geometry parameters on-Conventional Energy Resources-Khan B.H/Tata McGraw F | along with | R ENERGY |
| 1 | Introduction, Role of potential of new & renewable sources | 100000 | |
| 2 | The solar energy option, Environmental impact of solar power | | |
| 3 | Structure of the sun, The solar constant | 1 | |
| 4 | Sun-Earth relationships | | |
| 5 | Coordinate systems & coordinates of the sun | | |
| 6 | Extraterrestrial & Terrestrial solar radiation | | |
| 7 | Solar radiation on Tilted surface | | |
| - 8 | Instruments for measuring solar radiation & sunshine | From: | Lecture |
| 9 | Solar radiation data, Numerical problems | 17/07/23 | interspersed |
| 10 | Photovoltaic Energy conversion | | with |
| 11 | Types of PV cells | To: | discussions |
| 12 | Flat plate & concentrating collectors | 09/08/23 | discussions |
| 13 | Classification of concentrating collectors, orientation | | |
| 14 | Different methods of storage systems- sensible, latent, stratified | 1 | |
| 15 | Solar applications- solar Heating/Cooling | 1 | 18751 1 |
| 16 | Solar distillation | 4 | |
| 17 | Solar drying, Solar cookers | | - 0 X |
| 18 | central power concept, solar chimney | 1 | |
| CO2: A TB1: No 19 | WIND ENERGY, BIO-MASS pply the principles of wind energy & biomass energy on-Conventional Energy Resources-Khan B.H/Tata McGraw H Introduction, Sources & potentials | ill, New Del | hi, 2006. |
| 20 | Horizontal Axis Wind Mill | - | |
| 21 | Vertical Axis Wind Mill | - | 1 - 6 |
| 22 | Performance characteristics | - | _ |
| 23 | Betz Criteria | From: | Lecture |
| 24 | Types of winds | 10/08/23 | interspersed |
| 25 | Wind Data Measurement | 10/00/23 | with |
| 26 | Biomass Introduction, principles of bio-conversion | To: | discussions, |
| 27 | Methods of bio-conversion | 28/08/23 | Student |
| 28 | Anaerobic & Aerobic digestion | 20100123 | Seminar |
| 29 | Types of Bio-gas Digesters-fixed dome type | a kee | |
| 30 | Floating drum, ballon type bio gas digesters | | |
| 31 | Gas yield, Utilization for cooking | | |



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| | Bio-fuels | | 100 |
|--|--|---|---|
| 33 | I.C Engine operation & economic aspects | - | |
| UNIT | III GEOTHERMAL ENERGY, OCEAN ENERGY | 1 | |
| CO3: | Analyze knowledge on geothermal and ocean energy | | |
| TB1: | Non-Conventional Energy Resources-Khan B.H/Tata McGraw I | till New D | elbi 2006 |
| 34 | Introduction to Geothermal Energy | in, New D | Cini, 2006. |
| 35 | Resources of geothermal Energy | - | |
| 36 | Types of Geothermal wells-open loop systems | - | |
| 37 | Types of Geothermal wells-closed loop, pond/lake loop systems | - | |
| 38 | Methods of Harnessing the energy - dry steam plants | From: | •======== |
| 39 | Methods of Harnessing the energy - Flash steam plants, Binary | 29/08/23 | Lecture |
| | cycle plants | 27/00/23 | mersperse |
| 40 | Introduction to Ocean Energy (OTEC) | To: | with |
| 41 | Principles of Utilization | 04/10/23 | discussions |
| 42 | Setting of OTEC plants | 04/10/23 | |
| 43 | Thermodynamic Cycles | | |
| 44 | Tidal & Wave Energy Introduction | | |
| 45 | Potential & comments of the co | | |
| | Potential & conversion techniques of Tidal & Wave Energy IV ENERGY EFFICIENT SYSTEMS: ELECTRICAL & MECH | | |
| 47 | Energy efficient motors | + | |
| TB2: F | ustify the knowledge about energy efficient systems E: Fuell Cell Technology – Hand book/ Gregor Hoogers / BSP Bo | 0 | |
| .40 | introduction to Energy efficient systems & Flectrical systems | | |
| 48 | Energy efficient motors | | |
| 49 | Energy efficient lighting & control Selection of luminaries | | |
| 50 | Selection of fullimaries | | |
| | | | |
| | Variable Voltage Variable Frequency Drive (VVVFD) | From: | Lecture |
| 51 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC | From: 05/10/23 | Lecture |
| 51 52 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management | 1. S. V. LOUIS CO. S. C. | interspersed |
| 51 52 53 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems | 1. S. V. LOUIS CO. S. C. | interspersed with |
| 51 52 53 54 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects | 05/10/23 To: | interspersed with discussions, |
| 51 52 53 54 55 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels | 05/10/23 | interspersed with |
| 51 52 53 54 55 56 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells | 05/10/23 To: | interspersed with discussions, |
| 51 52 53 54 55 56 57 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & property of the compressors of the compressor | 05/10/23 To: | interspersed with discussions, |
| 51 52 53 54 55 56 57 UNIT-V | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS | 05/10/23 To: | interspersed with discussions, |
| 51 52 53 54 55 56 57 UNIT-V | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems | 05/10/23 To: 27/10/23 | interspersed with discussions, PPT. |
| 51 52 53 54 55 56 57 UNIT-V CO5: D TB3: G | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems freen Manufacturing Processes and Systems. I Paulo Davim / Series | 05/10/23 To: 27/10/23 | interspersed with discussions, PPT. |
| 51 52 53 54 55 56 57 UNIT-V | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems freen Manufacturing Processes and Systems. I Paulo Davim / Series | 05/10/23 To: 27/10/23 | interspersed with discussions, PPT. |
| 51 52 53 54 55 56 57 UNIT-V CO5; D | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems reen Manufacturing Processes and Systems-J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems | 05/10/23 To: 27/10/23 | interspersed with discussions, PPT. |
| 51 52 53 54 55 56 57 UNIT-V CO5: D TB3: G 58 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems freen Manufacturing Processes and Systems-J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems Benefits of Green Manufacturing systems | 05/10/23 To: 27/10/23 | interspersed with discussions, PPT. |
| 51 52 53 54 55 56 57 UNIT-V CO5; D TB3: G | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems freen Manufacturing Processes and Systems-J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems Benefits of Green Manufacturing systems Selection of recyclable & Environment friendly materials in | 05/10/23 To: 27/10/23 pringer 201 From: | interspersed with discussions, PPT. |
| 51 52 53 54 55 56 57 UNIT-V CO5: D TB3: G 58 59 60 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems freen Manufacturing Processes and Systems-J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems Benefits of Green Manufacturing systems Selection of recyclable & Environment friendly materials in Manufacturing | 05/10/23 To: 27/10/23 | interspersed with discussions, PPT. |
| 51 52 53 54 55 56 57 UNIT-V CO5; D TB3: G 58 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems reen Manufacturing Processes and Systems- J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems Benefits of Green Manufacturing systems Selection of recyclable & Environment friendly materials in Manufacturing Design & implementation of Efficient & Sustainable green | 05/10/23 To: 27/10/23 pringer 201 From: 30/10/23 | interspersed with discussions, PPT. 3 Lecture interspersed with |
| 51 52 53 54 55 56 57 UNIT-V CO5: D TB3: G 58 59 60 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems reen Manufacturing Processes and Systems- J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems Benefits of Green Manufacturing systems Selection of recyclable & Environment friendly materials in Manufacturing Design & implementation of Efficient & Sustainable green production systems | 05/10/23 To: 27/10/23 Pringer 201 From: 30/10/23 To: | interspersed with discussions, PPT. 3 Lecture interspersed with discussions, |
| 51 52 53 54 55 56 57 UNIT-V CO5: D TB3: G 58 59 60 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems reen Manufacturing Processes and Systems-J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems Benefits of Green Manufacturing systems Selection of recyclable & Environment friendly materials in Manufacturing Design & implementation of Efficient & Sustainable green production systems Environmental friendly machining | 05/10/23 To: 27/10/23 pringer 201 From: 30/10/23 | interspersed with discussions, PPT. 3 Lecture interspersed with discussions, Student |
| 51 52 53 54 55 56 57 UNIT-V CO5: D TB3: G 58 59 60 61 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems reen Manufacturing Processes and Systems-J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems Benefits of Green Manufacturing systems Selection of recyclable & Environment friendly materials in Manufacturing Design & implementation of Efficient & Sustainable green production systems Environmental friendly machining Vegetable based cutting fluids | 05/10/23 To: 27/10/23 Pringer 201 From: 30/10/23 To: | interspersed with discussions, PPT. 3 Lecture interspersed with discussions, |
| 51 52 53 54 55 56 57 UNIT-V CO5: D TB3: G 58 59 60 | Variable Voltage Variable Frequency Drive (VVVFD) Controls of HVAC Demand site Management Introduction to Mechanical systems Fuel cells principle & Thermodynamic aspects Selection of Fuels Working of various types of Fuel cells Environmental friendly & energy efficient compressors & pumps GREEN MANUFACTURING SYSTEMS iscuss the concepts of green manufacturing systems reen Manufacturing Processes and Systems-J. Paulo Davim / Sp Environmental Impact of the current manufacturing systems Benefits of Green Manufacturing systems Selection of recyclable & Environment friendly materials in Manufacturing Design & implementation of Efficient & Sustainable green production systems Environmental friendly machining | 05/10/23 To: 27/10/23 Pringer 201 From: 30/10/23 To: | interspersed with discussions, PPT. 3 Lecture interspersed with discussions, Student |



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TB 1: Non-Conventional Energy Resources-Khan B.H/Tata McGraw Hill, New Delhi, 2006.

TB 2 : Renewable and Efficient Electric power System- Gilbert M. Masters

TB 3 : Green Manufacturing Processes and Systems- J. Paulo Davim / Springer 2013

R: Fuell Cell Technology - Hand book/ Gregor Hoogers / BSP Books Pvt. Ltd.

Signature of Faculty

Signature of HOD

TENTATIVE PLAN:R2022121

| OMMERCE | |
|--------------------------------|-------------------|
| Date: | AY:2023-24 |
| Prepared By : Dr.G D K KISHORE | Approved By : HOD |
| | OMMERCE |

Tools: Black board, PPTs, Moodle

UNIT -1 Electronic Commerce

CO1: Defining mobile commerce and its framework, growth benefits and limitations.

TB: E.Brian Mennecke, J.Troy Strader, "Mobile Commerce: Technology, Theory and Applications", Idea Group Inc., IRM press, 2003

| No. of Periods | TOPIC | Date | Mode of Delivery |
|-------------------|--|------|--|
| 1 | Electronic Commerce: Introduction | | • |
| 2 | Electronic Commerce: Traditional commerce and E- commerce | | |
| 3 | Internet and WWW, Role of WWW | | |
| 4 | Value Chains | | |
| 5 | Strategic Business and Industry Value Chains | | - |
| 6 | Role of E-commerce. Packet Switched Networks | | - |
| 7 | TCP/IP Protocol Script | | Lecture interspersed |
| 8 | Internet Utility Programmes - SGML | | with discussions |
| 9 | HTML and XML | | The state of the s |
| 10 | Web Client and Servers | | |
| 11 | Web Client/Server Architecture | | - |
| 12 | Intranet and Extranets | | |
| 13 | Web Based Tools for E-commerce | | - |
| 14 | Security, | | |

UNIT -II: Mobile Commerce

CO2: Analysing the information distribution for mobile networks in multimedia content.

TB: E.Brian Mennecke, J.Troy Strader, "Mobile Commerce: Technology, Theory and Applications", Idea Group Inc., IRM press, 2003

| 15 | Mobile Commerce: Introduction | |
|---------|--|----------------------|
| 16 | Infrastructure of M-Commerce | |
| 17 | Types Of Mobile Commerce Services | |
| 18,19 | Technologies of Wireless Business | |
| 20,21 | Benefits and Limitations, Support | Lecture interspersed |
| 22 | Mobile Marketing & Advertisement | with discussions |
| 23 | Non- Internet Applications in M-Commerce | |
| 24 | Wireless/Wired Commerce Comparisons | |
| NIT -II | I: Mobile Commerce Technology | |

CO3: Describing the method how to publish mobile networks and mobile payment models in multimedia.

TB: E.Brian Mennecke, J.Troy Strader, "Mobile Commerce: Technology, Theory and Applications", Idea Group Inc., IRM press, 2003

| No. of Periods | TOPIC | Date | |
|-------------------|--|------|---------------------|
| 25,26 | Mobile Commerce Technology : A Framework For The Study Of Mobile Commerce | | |
| 27,28 | NTT Docomo's I-Mode | | |
| 29,30 | Wireless Devices For Mobile Commerce | | Lecture intersperse |
| 31,32 | Towards a Classification Framework for Mobile Location Based Services | | with discussions |
| 33,34 | Wireless Personal and Local Area Networks | | |
| 35,36 | Formulation in Mobile Communications Network | | 100 |
| JNIT -IV | Mobile Commerce Theory and Applications | | |

UNIT -IV: Mobile Commerce Theory and Applications

CO4: Employing wireless communications technology, such as WWAN, Cellular systems 2G, 2.5G, 3G, 4G, 5G, WLAN, and WMAN technology, in practical scenarios.

TB: E.Brian Mennecke, J.Troy Strader, "Mobile Commerce: Technology, Theory and Applications", Ide

| No. of Periods | TOPIC | Date | Mode of Delivery |
|---------------------------|--|------|----------------------|
| 37 | Mobile Commerce Theory and Applications : The Ecology of Mobile Commerce | | |
| 38 | The Wireless Application Protocol | | |
| 39 | Mobile Business Services | | |
| 40 | Mobile Portal | | 1,000 |
| 41,42 | Factors Influencing the Adoption of Mobile Gaming Services | | |
| 43,44 | Mobile Data Technologies and Small Business Adoption and Diffusion | | Lecture interspersed |
| 45 | E-commerce in The Automotive Industry | | with discussions |
| 46,47 | Location-Based Services: Criteria For Adoption and Solution Deployment | | 1100 |
| 48,49 | The Role of Mobile Advertising in Building a Brand | | - |
| | M-commerce Business Models | | |
| CO5: Ex loc TB: E.B | Business- To- Business Mobile E- Commerce plaining M-COMMERCE applications in various areas like ration, entertainment, and shopping. rian Mennecke, J.Troy Strader, "Mobile Commerce: Techno., IRM press, 2003 | | |
| 50,51 | Business- To- Business Mobile E- Commerce : Enterprise Enablement | | |
| 52 | Email and Messaging | | - |
| 53.54 | Field Force Automation (Insurance, Real Estate | | - |

| 52 | Email and Messaging | |
|-------|---|--|
| 53,54 | Field Force Automation (Insurance, Real Estate, Maintenance, Healthcare) | |
| 55 | Field Sales Support (Content Access Inventory) | |
| 56 | A T. III III III III III III III III | |

Asset Tracking and Maintenance/Management 57 Remote IT Support Customer Retention (B2C Services, Financial, 58 Special Deals) Warehouse Automation 59

Lecture interspersed with discussions

Signature of the Faculty

60

Security

Signature of the HOD



No. of

Periods

16

SRK INSTITUTE OF TECHNOLOGY.

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DEPARTMENT OF INFORMATION TECHNOLOGY

Date

Remarks

TENTATIVE LESSON PLAN

UNIT 1- COURSE INTRODUCTION - NEED, BASIC GUIDELINES, CONTENT AND PROCESS

Course/Code: UNIVERSAL HUMAN VALUES-2

Year / Semester: IV/I Section: 1 A.Y: 2023-24 Mode of Delivery: Onboard/PPT

TOPIC

| FOR VAL CO1: To to themselves TB :: "A f | UE EDUCATION rain the student for Development of a holistic perspective b human being), family, society and nature/existence. foundational course in Human Values and Professional Excel Books". | ased on self-explo | oration about |
|---|--|--------------------|----------------------|
| 1 | Introduction | | |
| 2 | Need ,Basic Guide lines for Value Education | | |
| 3 | Content and Process for Value Education | - 10 - S | |
| - 4 | Introduction to Self-Exploration | | |
| 5 | Self-Exploration content and process | 2060/03 | |
| 6 | Personality Traits | | |
| 7 | Self Excellence, Natural Acceptance" and Experiential Validation" | | |
| 8 | The process for self-exploration | From: | |
| 9 | Adaptability, Belief and Understanding- Self discipline | 17-07-2023 | Lecture |
| 10 | Continuous Happiness and Prosperity | 3328 | Interspersed with |
| 11 | A look at basic Human Aspirations | To: | discussions |
| 12 | Right understanding, Relationship and Physical Facility | 10-08-2023 | |
| 13 | the basic requirements for fulfillment of aspirations of every human being with their correct priority | | |
| 14 | Method to fulfill the above human aspirations | | |
| 15 | Understanding and living in harmony at various levels. | | |

UNIT -II UNDERSTANDING HARMONY IN THE HUMAN BEING - HARMONY IN MYSELF!
CO2: To understand Harmony in the Human Being - characteristics and activities and harmony in I

and correct appraisal of Physical needs, meaning of Prosperity in detail.

Myers-Briggs Type Indicator (MBTI) Personality test

TB :: "A foundational course in Human Values and Professional Ethics by RR Gaur, R Sangal, GP Bagaria, " Excel Books".

| 17 | Introduction Understanding Harmony in the Human Being | | 1 5 5 5 6 |
|----|---|------------|---|
| 18 | Understanding human being as a co-existence of the sentient I" and the material "Body" | | |
| 19 | Understanding the needs of Self (I) and Body" - happiness and physical facility" | From: | Lecture |
| 20 | Understanding the Body as an instrument of 1 | 14-08-2023 | Interspersed |
| 21 | I being the doer, seer and enjoyer | | with |
| 22 | Habits and Hobbies | To: | discussions |
| 23 | SWOT Analysis (Activity) | 31-08-2023 | |
| 24 | Understanding the characteristics and activities of 1 | | 111111111111111111111111111111111111111 |
| 25 | Harmony in 1 | | |

| 26 | Dalai Lamas" Tibetan Personality Test" |
|-----|---|
| 27 | .Understanding the harmony of I with the Body |
| 28 | Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail |
| 29. | Programs to ensure Sanyam and Health |
| 30 | Epidemiology- Definition of health, Social and Preventive Medicine, Personal hygiene and handling stress |
| 31 | WHO Guidelines |

UNIT - IIIUNDERSTANDING HARMONY IN THE FAMILY AND SOCIETY- HARMONY IN HUMAN RELATIONSHIP

CO3: To understand (or develop clarity) the harmony in the human being, family, society and Human Relationship

TB:: "A foundational course in Human Values and Professional Ethics by RR Gaur, R Sangal, GP

Bagaria " Excel Books".

| 32 | Introduction Understanding Harmony in the Family and Society | | Lecture Interspersed with discussions |
|----|---|---------------------|--|
| 33 | Harmony in Human-Human Relationship | | |
| 34 | Understanding values in human-human relationship | | |
| 35 | meaning of Justice, Trust and Respect as the foundational values of relationship | | |
| 36 | Understanding the meaning of Trust; Difference between intention and competence | From: 01-09-2023 | |
| 37 | Understanding the meaning of Respect, Difference between respect and differentiation | | |
| 38 | The other salient values in relationship, Friends and Foes, Empathy, False Prestige. | To: 26-09-2023 | |
| 39 | Concept of an Ideal family- Marriage as an Institution | PARTY COLON | |
| 40 | Understanding the harmony in the society | | |
| 41 | Visualizing a universal harmonious order in society | | |
| 42 | Undivided Society, Universal Human Order- from family to world family. | | |

UNIT - IV: UNDERSTANDING HARMONY IN THE NATURE AND EXISTENCE - WHOLE EXISTENCE AS COEXISTENCE

CO4: To strengthen the students in Understanding Existence as Co-existence of mutually interacting units in all- pervasive space, Holistic perception of harmony at all levels of existence.

TB:: "A foundational course in Human Values and Professional Ethics by RR Gaur, R Sangal, GP Bagaria." "Excel Books".

| Les Prope sing & | Little Double | | |
|------------------|--|------------|--|
| 43 | Introduction to Understanding Harmony in the Nature and Existence | | Lecture Interspersed with discussions |
| 44 | Whole existence as Coexistence | | |
| 45 | Understanding the harmony in the Nature and its Equanimity | | |
| 46 | Respect for all, Nature as Teacher | From: | |
| 47 | Interconnectedness and mutual fulfillment among the four orders of nature | 27-09-2023 | |
| 48 | Recyclability and self-regulation in nature | To: | |
| 49 | Understanding Existence as Co-existence of mutually interacting units in all | 18-10-2023 | |
| 50 | pervasive space | | |
| 51 | Holistic perception of harmony at all levels of existence. | | |
| 52 | practice sessions | | |

UNIT - V IMPLICATIONS OF THE ABOVE HOLISTIC UNDERSTANDING OF HARMONY ON PROFESSIONAL ETHICS

CO5: To Infuse the student with Humanistic Education, Humanistic Constitution and Humanistic Universal Order

TB :: "A foundational course in Human Values and Professional Ethics by RR Gaur, R Sangal, GP

| Bagaria ** | Excel | Boo | ks". |
|------------|-------|-----|------|
| | | | |

| 53 | Implications of the above Holistic Understanding of Harmony on Professional Ethics | From: | 100 mi |
|----|--|------------|--|
| 54 | Natural acceptance of human values | | Lecture Interspersed with discussions |
| 55 | Definitiveness of Ethical Human Conduct | | |
| 56 | Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order | | |
| 57 | Competence in professional ethics | 19-10-2023 | |
| 58 | Case studies of typical holistic technologies, management models and production systems | To: | |
| 59 | Vision for the Holistic alternatives, UHVs for entrepreneurship | 11-11-2023 | |
| 60 | Strategy for transition from the present state to Universal Human Order | | |
| 61 | (a) At the level of individual(b) At the level of society | | |
| 62 | practice sessions and Case Studies | | |

Signature of the Faculty

Signature of the HoD



29,30

Multiplexing

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TENTATIVE LESSON PLAN

Course/Code: Computer Network / R2031051

Year / Semester : III/I

Section: IT A.Y: 2023-24

| No. of Periods | TOPIC | Date | Remarks |
|----------------------|---|--|--|
| and get I TBI: Co | INTRODUCTION, PHYSICAL LAYER monstrate different network models for networking links OSI, 7 mowledge about various communication techniques, methods an mputer Network – Andrew Stanenbaum, Fifth Edition. Pearson | d protocol sta | ndards. |
| 1-2 | Introduction, Network Types, LAN, MAN, WAN | The state of the s | |
| 3-5 | Network Topologies Reference models, The OSI Reference Model | | |
| 6-8 | The TCP/IP Reference Model, A Comparison of the OSI and TCP/IP Reference Models | | Lecture interspersed with discussions |
| 9 | OSI Vs TCP/IP, Lack of OSI Models Success Internet History, Internet History | From: 17/07/2023 | |
| 10 | Physical Layer | 1//0//2023 | |
| 11,12 | Introduction to Guided Media | To: | |
| 13 | Twisted-Pair Cable | 19/08/2023 | |
| 14,15 | Coaxial Cable | 1770012020 | |
| 16,17 | Fiber Optic Cable and Unguided Media | | |
| 18 | Wireless- Radio Waves | | |
| 19 | Microwaves | | |
| 20 | Infrared | | |
| | DATA LINK LAYER, SLIDING WINDOW PROTOCOL scuss different transmission media and different switching netwon nputer Network – Andrew Stanenbaum, Fifth Edition. Pearson Design issues, Framing | | |
| 22 | Variable Size Framing, Fixed Size Framing | | |
| 23,24 | Flow control, Error control, Error Detection and Correction Codes | From: 21/08/2023 To: 5/09/2023 | |
| 25,26 | CRC, Checksum: Idea, One's Complement Internet Checksum, Services Provided to Network Layer, Elementary Data Link Layer Protocols | | Lecture interspersed with |
| 27,28 | Simplex Protocol, Simplex Stop and wait, Simplex Protocol for Noisy | | discussions |

Point to Point Protocol (PPP), Framing Transition Phase,

| 31 | Sliding Window Protocol, One bit, Go back N | | |
|--|---|--|---|
| 32 | Selective repeat-Stop and wait Protocol, Data Link Layer in HDLC, | | |
| | Configuration and Transfer Modes | | |
| 33-35 | Frames, Control Field | | |
| 36-40 | Multi Link PPP, Introduction to MAC, ALOHA | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Took Extra Clas for Problem Solving |
| TB1: Co | nalyze data link layer services, function and protocols like HDLC omputer Network – Andrew Stanenbaum, Fifth Edition. Pearson | and PPP | cess |
| 41 | Carrier Sense Multiple Access (CSMA), CSMA with Collision Detection, CSMA with Collision Avoidance | | |
| 42 | Controlled Access, Reservation, Polling | | |
| 43 | Token, Passing, Channelization | From: | Lecture |
| 44 | Frequency Division Multiple Access (FDMA) | 6/09/2023 | interspersed |
| 45 | Time Division Multiple Access (TDMA) | | with |
| 46,47 | Code Division Multiple Access (CDMA), Wired LANs, Ethernet | To: 16/09/2023 | discussions |
| 48 | Ethernet Protocol, Standard Ethernet | 10/07/2023 | |
| 49 | Fast Ethernet (100 MBPS) | | Testings |
| 50,51 | Gigabit Ethernet, 10 Gigabit Ethernet, Introduction The Network | 1 | |
| m. p. 4 m. 9 | a Basic strictlied to ordanic strictlied minocostion the trethous | | |
| UNIT-I CO4: C CSMA/ TB2: Da | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi | The state of the s | |
| UNIT-I CO4: C CSMA/ | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols | The state of the s | |
| UNIT-I CO4: C CSMA/ TB2: Da | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and | ifth Edition T | |
| UNIT-I CO4: C CSMA/ TB2: Da | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of | ifth Edition T | |
| UNIT-I CO4: C CSMA/ TB2: Di 52 | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks | ifth Edition T | MH. |
| UNIT-I' CO4: C CSMA/ TB2: Di 52 53 | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path | ifth Edition T | Lecture interspersed with |
| UNIT-I CO4: C CSMA/6 TB2: Di 52 53 | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path Flooding | ifth Edition T | Lecture interspersed |
| UNIT-I' CO4: C CSMA/0 TB2: Di 52 53 54 55 56 | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path Flooding Distance Vector, Link State | ifth Edition T | Lecture interspersed with |
| UNIT-I' CO4: C CSMA/0 TB2: Di 52 53 54 55 56 57 | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path Flooding Distance Vector, Link State Approaches to Congestion Control, Traffic Aware Routing | From: 25/09/2023 | Lecture interspersed with |
| UNIT-I' CO4: C CSMA/ TB2: Di 52 53 54 55 56 57 58 | V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path Flooding Distance Vector, Link State Approaches to Congestion Control, Traffic Aware Routing Hierarchical, Congestion Control Algorithms General Principles of Congestion Control, Congestion Prevention | From: 25/09/2023 | Lecture interspersed with |
| UNIT-I' CO4: C CSMA/0 TB2: Di 52 53 54 55 56 57 58 59 | V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path Flooding Distance Vector, Link State Approaches to Congestion Control, Traffic Aware Routing Hierarchical, Congestion Control Algorithms General Principles of Congestion Control, Congestion Prevention Polices | From: 25/09/2023 | Lecture interspersed with |
| UNIT-I' CO4: C CSMA/ TB2: Di 52 53 54 55 56 57 58 59 60 | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path Flooding Distance Vector, Link State Approaches to Congestion Control, Traffic Aware Routing Hierarchical, Congestion Control Algorithms General Principles of Congestion Control, Congestion Prevention Polices Approaches to Congestion Control, Traffic Aware Routing | From: 25/09/2023 | Lecture interspersed with |
| UNIT-I' CO4: C CSMA/0 TB2: Di 52 53 54 55 56 57 58 59 60 61 | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path Flooding Distance Vector, Link State Approaches to Congestion Control, Traffic Aware Routing Hierarchical, Congestion Control Algorithms General Principles of Congestion Control, Congestion Prevention Polices Approaches to Congestion Control, Traffic Aware Routing Admission Control, Traffic Throttling | From: 25/09/2023 | Lecture interspersed with |
| UNIT-I' CO4: C CSMA/0 TB2: Di 52 53 54 55 56 57 58 59 60 61 62 | Layer Design Issues V THE NETWORK LAYER DESIGN ISSUES ompare and Classify Medium Access Control Protocols like Al CA, Polling, Token Passing, FDMA, TDMA, CDMA Protocols ata Communications and Networks – Behrouz A. Forouzan, Fi Store and Forward Packet Switching, Services Provided to the Transport Layer Implementation of Connectionless Service, Implementation of Connection oriented Services, Comparison of Virtual Circuit and Datagram Networks Routing Algorithms, The Optimality Principle- Shortest path Flooding Distance Vector, Link State Approaches to Congestion Control, Traffic Aware Routing Hierarchical, Congestion Control Algorithms General Principles of Congestion Control, Congestion Prevention Polices Approaches to Congestion Control, Traffic Aware Routing Admission Control, Traffic Throttling Load Shedding, Traffic Control Algorithm Leaky Bucket and Token Bucket, Internet Working, How | From: 25/09/2023 | Lecture interspersed with |

| 6 | IPV4 Header format, IP Address, Class full Addressing | |
|---|---|--|
| 7 | CIDR | |
| 8 | NAT | |
| 9 | Subnets | |
| 0 | IP Version 6, The Main IPV6 Header | |
| 1 | Transition From IPV4 to IPV6 | |
| 2 | Comparision of IPV4 & IPV6, Internet Control Protocols, ICMP- APR-DHCP | |

UNIT-V The Transport Layer, Application Layer

CO5: Determine application layer services and client server protocols working with the client server paradigms like WWW, HTTP, FTP, E-mail and SNMP etc.

TB2: Data Communications and Networks - Behrouz A. Forouzan, Fifth Edition TMH.

| 73 | Transport Layer Protocols | | Lecture interspersed with discussions |
|----|--|------------|--|
| 74 | Introduction Services | | |
| 75 | Port Number | | |
| 76 | User Data Gram Protocol | From: | |
| 77 | User Datagram | 24/10/2023 | |
| 78 | UDP Services, UDP Applications | | |
| 79 | Transmission Control Protocol | To: | |
| 80 | TCP Services | 25/11/2023 | |
| 81 | TCP Features, Segment – A, TCP Connection | | |
| 82 | Windows in TCP, Flow Control, Error Control, Congestion Control in TCP | | |

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Signature of HOD



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TENTATIVE LESSON PLAN

Course/Code: Safety Engineering / R204103W

Safety trials

18

Year / Semester : IV/1 Section: 1

A.Y: 2023-24

| 15000 | TOPIC | Date | Mode of Delivery |
|---|--|--------------------------|---|
| CO1: Under TB: "Occup | ntroduction to the Development of Industrial S stand the concepts of industrial safety and man ational Safety Management and Engineering rentice Hall Publications. | agement | |
| 1 | History and development of Industrial safety | | |
| 2 | Implementation of factories act | | Chr. Address led |
| 3 | Safety and productivity | From 17-07-2023 | Lecture |
| 4 | Safety organizations | To | interspersed with |
| 5 | Safety committees and structure | 28-07-2023 | discussions& |
| 6 | Role of management and role of Govt. in Industrial safety | | PPTs |
| i doncations. | [80] : [18] 아이는 | · a, 5.K, 5. C | nand and Co |
| Publications. | [80] : [18] 아이는 | 12, 3.R, 3. C | nand and Co |
| 7 | Personal protective equipment | , S.R, S. C | nand and Co |
| | estidad — maio, bacada a profesionada accidentes de la companionada del companionada de l | , S.R, S. C | hand and Co |
| 7 8 | Personal protective equipment Survey the plant for locations | , S.R., S. C | nand and Co |
| 7 8 9 | Personal protective equipment Survey the plant for locations Part of body to be protected | | Lecture |
| 7 8 9 10 | Personal protective equipment Survey the plant for locations Part of body to be protected Education and training in safety | From 31-07-2023 | Lecture interspersed |
| 7 8 9 10 | Personal protective equipment Survey the plant for locations Part of body to be protected Education and training in safety Prevention causes and cost of accident | From 31-07-2023 To | Lecture interspersed with |
| 7 8 9 10 11 | Personal protective equipment Survey the plant for locations Part of body to be protected Education and training in safety Prevention causes and cost of accident Housekeeping | From 31-07-2023 | Lecture interspersed with |
| 7 8 9 10 11 12 | Personal protective equipment Survey the plant for locations Part of body to be protected Education and training in safety Prevention causes and cost of accident Housekeeping First aid | From 31-07-2023 To | Lecture interspersed with discussions& |
| 7 8 9 10 11 12 13 | Personal protective equipment Survey the plant for locations Part of body to be protected Education and training in safety Prevention causesand cost of accident Housekeeping First aid Firefighting equipment | From 31-07-2023 To | Lecture interspersed with discussions& |
| 7 8 9 10 11 12 13 14 | Personal protective equipment Survey the plant for locations Part of body to be protected Education and training in safety Prevention causesand cost of accident Housekeeping First aid Firefighting equipment Accident reporting | From 31-07-2023 To | Lecture interspersed with discussions& |



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DEPARTMENT OF INFORMATION TECHNOLOGY

| UNIT-III | Safety | Acts |
|----------|--------|------|
|----------|--------|------|

CO3: Understand and apply the knowledge of safety acts

TB: "Occupational Safety Management and Engineering", by Willie Hammer, 2nd Edition, Prentice Hall Publications.

| 19 | Features of Factory Act | | 1 |
|----|--|------------------|---|
| 20 | Introduction of Explosive Act | | |
| 21 | Boiler Act | | Lecture interspersed with discussions& PPTs |
| 22 | ESI Act | | |
| 23 | Workman's compensation Act | | |
| 24 | Industrial hygiene | | |
| 25 | Occupational Safety | 7 | |
| 26 | Diseases prevention | 1 | |
| 27 | Ergonomics | | |
| 28 | Occupational diseases | From | |
| 29 | Stress | 21-08-2023 To | |
| 30 | Fatigue | 30-09-2023 | |
| 31 | Health | | |
| 32 | Safety and the physical environment | | |
| 33 | methods of controlling chemical hazards | | |
| 34 | safety and the physical environment | | |
| 35 | Control of industrial noise and protection against it | | |
| 36 | Code and regulations for worker safety and health | | |
| 37 | Code for safety of system | | |

UNIT-IV FIRE PREVENTION AND PROTECTION

CO4: Understand the concepts of fire prevention and protection systems.

TB: "Hand book on Industrial Fire Safety", by Purandare D.D & Abhay D.Purandare, P & A publications, New Delhi, 2006.

| Sources of ignition | From 03-10-2023 To 19-10-2023 | Lecture interspersed with discussions& PPTs |
|--|---|---|
| Fire triangle | | |
| Principles of fire extinguishing | | |
| Active and passive fire protection systems | | |
| Various classes of fires A, B, C, D, E | | |
| Fire extinguishing agents | | |
| Water, Foam, Dry chemical powder, | | |
| Carbon-dioxide Halon alternatives | | |
| | Fire triangle Principles of fire extinguishing Active and passive fire protection systems Various classes of fires A, B, C, D, E Fire extinguishing agents Water, Foam, Dry chemical powder, | Fire triangle Principles of fire extinguishing Active and passive fire protection systems Various classes of fires A, B, C, D, E Fire extinguishing agents Water, Foam, Dry chemical powder, |



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| | Halocarbon compounds | |
|----|--------------------------------------|--|
| 46 | Inert gases, dry powders | |
| 47 | Types of fire extinguishers | |
| 48 | Fire stoppers | |
| 49 | Hydrant pipes, hoses, monitors | |
| 50 | Fire watchers, layout of stand pipes | |
| 51 | Fire station, fire alarms and sirens | |
| 52 | Maintenance of fire trucks | |
| 53 | Foam generators | |
| 54 | Escape from fire rescue operations | |
| 55 | Fire drills | |
| 56 | First aid for burns | |

UNIT-V BUILDING FIRE SAFETY

CO5: Appling the concepts of fire safety principles in buildings.

TB: "Hand book on Industrial Fire Safety", by Purandare D.D & Abhay D.Purandare,

P & A publications, New Delhi, 2006.

| 57 | Objectives of fire safe building design | From 26-10-2023 To 11-11-2023 | |
|----|---|--|---|
| 58 | Fire load | | Lecture interspersed with discussions& PPTs |
| 59 | Fire resistant material and fire testing | | |
| 60 | Structural fire protection | | |
| 61 | Structural integrity | | |
| 62 | Concept of egress design | | |
| 63 | Exit – width calculations | | |
| 64 | Fire certificates | | 11.13 |
| 65 | Fire safety requirements for high rise buildings | | |

Signature of Faculty

Signature of HoD



SRK INSTITUTE OF TECHNOLOGY Enikepadu, Vijayawada 521108 Department of Information Technology Accredited by NAAC with "A" Grade



TENTATIVE LESSON PLAN: R2021011

| Section : IT | Date: 07-08-2023 | Page No. | : 01 of 04 |
|------------------------------------|--|----------------------------|---|
| Revision No: 0 | 0 Prepared By : N.GAYATRI | | d By : HOD |
| Tools: Black be | ard | Approve | u by : HOD |
| No. of Periods | TOPIC | Date | Mode of Delivery |
| CO1: To interp divergence, to o | TOR CALCULUS ret the physical meaning of different stimate the work done against a field, ng Mathematics", Dr. T.K.V.Iyengar | circulation and flux using | and and |
| 1 | Vector Differentiation: Introduction | | |
| 3 | Properties of vectors and scalars | | |
| | Derivative of vector – definition | 0-53 | |
| 5 | Vector differential operator | | Lecture intersperse with discussions |
| 6 | Gradient of a vector | | |
| 7 | Divergence of a vector | | |
| 8 | Curl of a vector | | |
| 9 | Properties of gradient | | |
| 10 | Vector identities | From: | |
| 11 | Vector identities | 07-08-23 | |
| | Problems on application of gradient | To 25 08 22 | |
| 12 | Problems on divergence and curl | 25-08-23 | |
| 13 | Vector Integration: Introduction | | |
| 14 | Problems on line integral | | |
| 15 | Problems on line integral | | |
| 16 | Problems on surface integrals | | |
| 17 | Problems on volume integrals | | |
| 18 | Problems on Greens theorem | 10.152.000 | 252 |
| 19 | Problems on Green theorem | | |
| 20 | Problems on Gauss divergence theorem | 1 | |
| 21 | Problems on stokes theorem | | |
| O2: To apply | LACE TRANSFORMS the Laplace transform for solving diff g Mathematics", Dr. T.K.V.Iyengar; | erential equations | |
| 22 | Laplace Transforms: Definitions, Exist | Sections publications | |
| 22 | Laplace Hallstorms: Delininons Exist | ence | |

| 24 | Linearity property; Shifting properties Change of scale property | From | Lecture | |
|----|--|----------|-------------------------------------|--|
| 25 | Laplace Transforms of derivatives; Integrals | 26-08-23 | interspersed with discussions | |
| 26 | $L(t^n f(t))$ | To | | |
| 27 | Laplace Transforms of division by t | 15-09-23 | | |
| 28 | Evaluation of integrals | | | |
| 29 | Laplace Transforms of periodic functions; unit step functions; Unit impulse functions | | | |
| 30 | Inverse Laplace Transforms: Finding L ⁻¹ using partial fractions | | | |
| 31 | Properties of inverse transform | | | |
| 32 | Convolution theorem | | | |
| 33 | Solutions of Difference Equations | | | |

UNIT - III: FOURIER SERIES AND FOURIER TRANSFORMS

CO3:TO find or compute the Fourier series of periodic signals, able to apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms

TB:" Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

| 34 | Introduction | | |
|----|-------------------------------------|---|-------------------------|
| 35 | Periodic functions | From | Lecture interspersed |
| 36 | Fourier series of periodic function | 16-09-23 | |
| 37 | Dirchlets conditions | То | |
| 38 | Even and odd functions | 23-09-23 | |
| 39 | Change of interval | & | |
| 40 | Half range sine and cosine series | From | with |
| 41 | Fourier transforms | 03-10-23 | discussions |
| 42 | Fourier integral theorem | То | |
| 43 | Fourier sine and cosine integrals | 12-10-23 | |
| 44 | Sine and cosine transforms | | |
| 45 | Properties | | |
| 46 | Inverse transforms | - TO 10 10 10 10 10 10 10 10 10 10 10 10 10 | 100 |
| 47 | Finite Fourier transforms | | |

UNIT - IV: PDE OF FIRST ORDER

CO4: To identify solution methods for partial differential equations that model physical processes

TB:" Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

| 48 | Introduction | 1220000 | |
|----|--|---------|--------------|
| 49 | Formation of PDE by eliminating arbitrary constants | From | 120-20 |
| 50 | Formation of PDE by eliminating arbitrary functions | | |
| 51 | Solutions of PDE | | 2 2 2 |
| 52 | Method of grouping | | Lecture |
| 53 | Method of multipliers | | interspersed |

| 54 | Nonlinear PDE $f(p,q) = 0$ | 13-10-23 To 28-10-23 | with | |
|----|---------------------------------|----------------------------|-----------|-------------|
| 55 | Nonlinear PDE $f(p,q,z) = 0$ | | To discus | discussions |
| 56 | Nonlinear PDE $f(p,x) = g(q,y)$ | | | |
| 57 | Clairaut's equation | | | |
| 58 | PDE reducible to standard form | | | |
| 59 | $f(px^m,qy^n)=0$ | | | |
| 60 | $f(pz^m,qz^m)=0$ | | | |

UNIT - V: SECOND ORDER PARTIAL DIFFERENTIAL EQUATIONS AND APPLICATIONS

CO5: To identify solution methods for partial differential equations that model physical processes

TB:" Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

| 61 | Introduction; Homogeneous Linear P.D.E with constant coefficients; finding CF Finding PI: RHS term of the type $e^{(ax+by)}$ | From 30-10-23 To | Lecture |
|----|--|------------------------|-------------------------------------|
| 62 | $\sin(ax + by); \cos(ax + by)$ | 19-11-23 | interspersed with discussions |
| 63 | x ^m y ⁿ | | |
| 64 | Method of separation of variables | | |
| 65 | Solution of one dimensional wave equation | | |
| 66 | Heat equation | | |
| 67 | Two dimensional Laplace equation | | |

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Signature of HOD



Enikepadu, Vijayawada 521108 Approved by AICTE, Affiliated to JNTUK, Kakinada (ISO9001:2015 Certified Institution) Department of Information Technology

TENTATIVE LESSON PLAN: R203201G DISASTER MANAGE MENT

| Section : See A | The state of the s | Page No : | 01 of 03 |
|--|--|---------------------|---------------|
| Revision No: 00 | Prepared By :B.SAIKUMAR REDDY | Approved By : HC | |
| Tools: Black board | , PPTs, Model | 100000 | |
| No. of Periods | TOPIC | Date Mode delive | |
| CO1:The student disaster mitigation | URAL HAZARDS AND DISASTER M will be able to Affirm the usefulness of integ work. ction of Disaster Management- Natural Disa | rating managemen | nt principles |

S. Vaidyanathan: CBS Punblishers & Distributors Pvt. Ltd

T2: Natural Hazards & Disaster Management, Vulnerability and Mitigation by RB Singh-Rawat Publications

| WHAT LE | ioncations | | |
|----------|---|---------------------------|---|
| 1 | Introduction of DM | | |
| 2 | Inter disciplinary nature of the subject | | Lecture interspersed with discussions ppt |
| 3 | Disaster Management cycle | | |
| 4 | Five priorities for action | 100000 | |
| 5 | Case study methods-Introduction | | |
| 6 | Case study on Vegetal Cover floods | From: 9-01-2023 To: | |
| 7 | Case study on Droughts | | |
| 8 | Case study on earthquakes | | |
| 9 | Case study on Landslides | | |
| 10 | Case study on Global warming | 3-02-2023 | |
| 11 | Case study on Cyclones | 5 02 2025 | |
| 12 | Case study on Tsunamis | | |
| 13 | Post Tsunami hazards along the Indian coast | | |
| 14 | Hazards along Indian coast | | |
| 15 | Tutorial on disaster management cuels | | |
| UNIT -II | MAN MADE DISASTED AND THEFE | | |

UNIT -II MAN MADE DISASTER AND THEIR MANAGEMENT ALONG WITH CASE STUDY METHODS OF THE FOLLOWING

CO2: The student will be able Distinguish between the different approaches needed to manage

T1: An Introduction of Disaster Management- Natural Disasters & Vulnerable Hazards-S. Vaidyanathan: CBS Punblishers& Distributors Pvt. Ltd

T2:Natural Hazards & Disaster Management, Vulnerability and Mitigation by RB Singh-

| 16 | Man Made Disaster | | |
|----|------------------------------|-----------|---|
| 17 | Fire hazards | | Lecture interspersed with discussions ppt |
| 18 | Transport hazard dynamics | | |
| 19 | Solid waste management | | |
| 20 | Management- post disaster | From: | |
| 21 | Bioterrorism | 4-02-2023 | |
| 22 | Threat in mega cities | To: | |
| 23 | Rail accidents | 4-03-2023 | |
| 24 | Aircraft accidents | 100 | |
| 25 | Ground water in industries | | |
| 26 | Emerging infectious diseases | 1933 | |
| 27 | Aids and their management | | |
| 28 | Management of diseases | - 379 | |
| 29 | Case studies | | |
| 30 | Tutorial on bio terrorism | | 100 |

UNIT -III RISK AND VULNERABILITY

CO3:The student will be able to explain the process of risk management

T1: An Introduction of Disaster Management- Natural Disasters & Vulnerable Hazards-S.Vaidyanathan: CBS Punblishers& Distributors Pvt. Ltd

T2:Natural Hazards & Disaster Management, Vulnerability and Mitigation by RB Singh-Rawat Publications

| | The state of the s | | |
|-----------|--|--------------------|---|
| 31 | Risk | 1 | Lecture interspersed with discussions ppt |
| 32 | Vulnerability | | |
| 33 | Building codes | - V 555 | |
| 34 | Land use planning | | |
| 35 | Types of Vulnerability | - | |
| 36 | Social Vulnerability | From: 4-03-2023 | |
| 37 | Environmental vulnerability | To: | |
| 38 | Risk-types | 17-04-2023 | |
| 39 | Elements of risk | 1. 01 2025 | |
| 40 | Factors affecting vulnerability | | |
| 41 | Elements of vulnerability Tutorial on types of vulnerability | | |
| UNIT - IV | ROLE OF TECHNOLOGY IN DISASTED MAN | A CHIA PHARMA | |

UNIT - IV ROLE OF TECHNOLOGY IN DISASTER MANAGEMENTS

CO4: The student will be able to learn the role of technology in disaster management.

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T2:Natural Hazards & Disaster Management, Vulnerability and Mitigation by RB Singh-

| 42 | Disaster management for infra structures | |
|----|--|--------------|
| 43 | Taxonomy of infra structure | |
| 44 | Treatment plants and process facilities | |
| 45 | Electrical substations Roads and bridges | |
| 46 | Mitigation programme for earth quakes | Lecture |
| | o more carar quakes | interspersed |

| 47 | Flowchart, geospatial information in agriculture drought assessment | From: 20-04-2023 To: 2-05-2023 | with discussions ppt |
|----|--|---|----------------------------|
| 48 | Multimedia Technology in disaster risk management training | | |
| 49 | Training, Transformable Indigenous Knowledge | | |
| 50 | Disaster risk reduction | | |
| 51 | Role of RS , Role of GIS | | |
| 52 | Tutorial on Role of RS& GIS | | |

UNIT-V MULTI-SECTIONAL ISSUES, EDUCATION AND COMMUNITY PREPAREDNESS

CO5: The student will be able to relate to risk transfer

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T2:Natural Hazards & Disaster Management, Vulnerability and Mitigation by RB Singh-Rawat Publications

| 53 | Multi-sectional Issues, Education and Community Preparedness- Impact of disaster on poverty and deprivation | From: 3-05-2023 To: 6-05-2023 | Lecture interspersed with discussions ppt |
|----|---|--|---|
| 54 | Climate change adaptation and human health | | |
| 55 | Exposure Health hazards and environmental risk | | |
| 56 | Forest management and disaster risk reduction | | |
| 57 | Corporate sector and disaster risk reduction | | |
| 58 | Community capacity and disaster resilience | | |
| 59 | social capital, Designing resilience | | |
| 60 | Essentials of school disaster education | | |
| 61 | Building community capacity for action Tutorial | | |

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Signature of the Faculty

Signature of the HOD