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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Dr. Rajender Nath**  **Class: M.Tech (2nd Sem.)**  **Subject : Object Oriented Analysis & Design Using UML**  **Lecture Time: 10:00 am to 11:00 am ( Monday to Thursday)** | | |
| **Sr. No** | **Date** | **Topic** |
| 1 | 02/03/2015  Monday | Dependencies (Usage, Abstraction, Permission) |
| 2 | 03/03/2015  Tuesday | Class Generalization, Generalization Sets, Power Types |
| 3 | 09/03/2015  Monday | Analysis Package- Nested Packages, Dependencies, Transitivity |
| 4 | 10/03/2015  Tuesday | Package Generalization, Architectural Analysis |
| 5 | 11/03/2015  Wednesday | Finding Analysis Packages, Concept of Pattern & Frameworks |
| 6 | 12/03/2015  Thursday | Use Case Realization- Interaction Diagram, Sequence Diagram |
| 7 | 16/03/2015  Monday | Activity Diagrams |
| 8 | 17/03/2015  Tuesday | Design: Meta Model, Workflow |
| 9 | 18/03/2015  Wednesday | Design Classes- Well-formed Design Classes |
| 10 | 19/03/2015  Thursday | Inheritance, Templates |
| 11 | 24/03/2015  Tuesday | Nested Classes, Design Relationship |
| 12 | 25/03/2015  Wednesday | Aggregation and Composition |
| 13 | 26/03/2015  Thursday | Refining Analysis Relationships |
| 14 | 30/03/2015  Monday | Internal Assessment Test |
| 15 | 31/03/2015  Tuesday | Internal Assessment Test |

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| Name of the teacher: Dr. Shuchita Upadhyaya  Class: M.Sc. 2nd Semester  Lesson plan for the month of March 2015 as per Time Table (Monday to Thursday 11am to 12 noon)  **MS-21 Data Communication and Computer Networks** | | |
| **S.No** | **Date** | **Topic** |
| **1** | 09-03-15 | Coaxial cable, categories, physical characteristics and applications; Optical fiber, its physical characteristics and applications |
| **2** | 10-03-15 | wireless transmission – Radio waves, microwaves, infrared waves; Lightwave transmission; |
| **3** | 11-03-15 | Switching: Circuit Switching, Packet Switching; Multiplexing: Frequency Division Multiplexing Time Division Multiplexing, Synchronous and Asynchronous TDM |
| 4 | 12-03-15 | Modems, modulation techniques; Manchester and Differential Manchester encoding |
| 5 | 16-03-15 | ADSL Versus Cable; Introduction to Data Link Layer Design issues: Framing techniques |
| 6 | 17-03-15 | Flow Control, Error Detection and correction; Error detection techniques |
| 7 | 18-03-15 | Sliding Window Protocols: 1-bit, Go back n, selective repeat |
| 8 | 19-03-15 | Introduction to Medium Access Control: Aloha, Slotted aloha protocols |
| 9 | 24-03-15 | CSMA protocols, Collision free protocols |
| 10 | 25-03-15 | Limited Contention Protocols; Wavelength division Multiple access protocol |
| 11 | 26-03-15 | Wireless LAN Protocol: MACA; IEEE 802.3 Ethernet ; Binary Exponential Backoff algorithm |
| 12 | 30-03-15 | IEEE 802.4 Token Bus; IEEE 802.5 Token ring, |
| 13 | 31-03-15 | High speed LANs; Introductio to Digital Cellular Radio: Global System for Mobile Communication (GSM) |
| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Dr. Pardeep Kumar Mittal**  **Class: MCA – 2nd Semester (Section A & B)**  **Subject: Data Structures**  **LectureTime: 2.00 PM - 3.00 PM & 4:00 PM – 5:00 PM** | | | |
| **Sr. No** | **Date** | **Topic** | |
| 1 | 2/3/2015 | Introduction to Linked Lists | |
| 2 | 3/3/2015 | Operations on Linked Lists | |
| 3 | 9/3/2015 | Operations on Linked Lists Contd. | |
| 4 | 10/3/2015 | Operations on Linked Lists Contd. | |
| 5 | 11/3/2015 | Introduction to Doubly Linked Lists | |
| 6 | 12/3/2015 | Operations on Doubly Linked Lists | |
| 7 | 16/3/2015 | Introduction to Header Linked Lists | |
| 8 | 17/3/2015 | Operations on Header Linked Lists | |
| 9 | 18/3/2015 | Introduction to Circular Linked Lists | |
| 10 | 19/3/2015 | Operations on Circular Linked Lists | |
| 11 | 23/3/2015 | Introduction to Stacks | |
| 12 | 24/3/2015 | Operations on Stacks | |
| 13 | 25/3/2015 | Applications of Stacks : Polish Notataion | |
| 14 | 26/3/2015 | Applications of Stacks : Recursion | |
| 15 | 30/3/2015 | Sessional Examination | |
| 16 | 31/3/2015 |
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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Monika**  **Class: M.Tech.- 2nd sem**  **Subject-Java Programming (MS-22)**  **LectureTime: 4:00 p.m. To 5:00 p.m.** | | | |
| **Sr. No** | **Date** | **Topic** | |
| 1 | 2-03-2015 | Exception Handling: Fundamentals exception types, uncaught exceptions | |
| 2 | 3-03-2015 | throw exception, built in exception, creating your own exceptions | |
| 3 | 9-03-2015 | Multithreaded Programming: Fundamentals, Java thread model: synchronization | |
| 4 | 10-03-2015 | Sensitive Data, , Multilevel Databases | |
| 5 | 11-03-2015 | messaging, thread classes, Runnable interface | |
| 6 | 12-03-2015 | inter thread Communication, suspending, resuming and stopping threads | |
| 7 | 16-03-2015 | I/O Streams: String and String Buffer classes, Wrapper classes | |
| 8 | 17-03-2015 | Basics types, using super, Multilevel hierarchy abstract and final classes | |
| 9 | 18-03-2015 | Input/Output Programming: Basics, Streams, Byte and Character Stream | |
| 10 | 19-03-2015 | predefined streams, Reading and writing from console and files | |
| 11 | 24-03-2015 | Event Handling: Different Mechanism | |
| 12 | 25-03-2015 | the Delegation Event Model, Event Classes | |
| 13 | 26-03-2015 | Event Listener Interfaces, Adapter and Inner Classes | |
| 14 | 30-03-2015 | Working with windows, Graphics and Text, using AWT controls | |
| 15 | 31-03-2015 | Cont..............Working with windows, Graphics and Text, using AWT controls | |

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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Monika**  **Class: M.Tech.- 2nd sem**  **Subject- Security in Computing (MT-CSE-14-24(iii))**  **LectureTime: 2:00 p.m. To 3:00 p.m.** | | |
| **Sr. No** | **Date** | **Topic** |
| 1 | 2-03-2015 | Database Security,relational database, Access Control |
| 2 | 3-03-2015 | Statistical Database, Database Encyption |
| 3 | 9-03-2015 | Data Mining security,Security requirement, reliability & intrgrity |
| 4 | 10-03-2015 | Sensitive Data, , Multilevel Databases |
| 5 | 11-03-2015 | Proposal for Multilevel Security, Data Mining - Privacy and Sensitivity, Data Correctness and Integrity, Data Availability |
| 6 | 12-03-2015 | Trusted Computing: Concept of Trusted System, Trusted Computing |
| 7 | 16-03-2015 | Trusted Platform Module, Common Criteria for Information Technology Security Evaluation |
| 8 | 17-03-2015 | Security in networks: Threats in networks, Network security control |
| 9 | 18-03-2015 | Firewall and Intrusion |
| 10 | 19-03-2015 | Prevention Systems: Need, Characteristics, Types of Firewalls, Firewall Basing |
| 11 | 24-03-2015 | Intrusion Prevention Systems. Intrusion Detection Systems. |
| 12 | 25-03-2015 | Internet Security Protocols and Standards: Secure Socket Layer (SSL) |
| 13 | 26-03-2015 | Transport Layer Security (TLS), IP4 and IP6 Security |
| 14 | 30-03-2015 | Secure Email. |
| 15 | 31-03-2015 | Legal and Ethical Aspects: Cyber crime and Computer Crime, Intellectual Property |

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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Dr. Rakesh Kumar**  **Class: MCA II Semester**  **Subject: MCA-14-23 PRINCIPLES OF PROGRAMMING LANGUAGES**  **Lecture Time: 10 am to 11 am** | | | | |
| **SN** | **Date** | | | **Topic** |
| 1 | 02 March, 2015 | | | Regular Grammar and FSA |
| 2 | 03 March, 2015 | | | Context free grammar and Push Down Automata |
| 3 | 09 March, 2015 | | | Context Sensitive and Phrase structure grammar |
| 4 | 10 March, 2015 | | | Ambiguous Grammar |
| 5 | 11 March, 2015 | | | Parsing: Difference between Top down and Bottom up parsing |
| 6 | 12 March, 2015 | | | Recursive Descent Parsing: As an example of top-down parsing |
| 7 | 16 March, 2015 | | | Operator precedence parsing: As an example of Bottom-up parsing |
| 8 | 17 March, 2015 | | | Attribute grammars,Denotational semantics, Program verification and validation, |
| 9 | 18 March, 2015 | | | Data types: Specification and Implementation of Integer, Float. |
| 10 | 19 March, 2015 | | | Data types: Specification and Implementation of Char and Enumerated data types |
| 11 | 23 March, 2015 | | | Specification and Implementation of data structures: Array, Strings. |
| 12 | 24 March, 2015 | | | Specification and Implementation of data structures: Files, Union, Structures etc. |
| 13 | 25 March, 2015 | | | Type Checking and Type Conversion: Type equivalence – Name and structural equivalence, Static and Dynamic Type Checking, |
| 14 | 26 March, 2015 | | | Implicit and Explicit Type declaration and their merits and demerits, Narrowing and widening type conversion, Implicit and explicit type conversion |
| 15 | 30 March, 2015 | | | Object Oriented Programming languages features: Concept of abstraction, difference between control, procedural and data abstraction, Information hiding encapsulation |
| 16 | 31 March, 2015 | | | Polymorphism: Run-time and compile-time polymorphism, Function overloading and operator overloading |
| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Dr. Rakesh Kumar**  **Class: M. Tech. (CSE) II semester**  **Subject: MT – CSE – 14 – 23(i) SOFTWARE QUALITY MODELS & TESTING**  **Lecture Time: 9 am to 10 am** | | | | |
| **SN** | | **Date** | **Topic** | |
| 1 | | 02 March, 2015 | Loop testing, | |
| 2 | | 03 March, 2015 | Mutation testing – competent programmer hypothesis, coupling effect hypothesis | |
| 3 | | 09 March, 2015 | Strong and weak mutant, mutation testing in procedure oriented and object oriented programming | |
| 4 | | 10 March, 2015 | Data flow based testing, Difference between control-flow and data-flow based testing, | |
| 5 | | 11 March, 2015 | Adequacy criteria in data-flow based testing: APU, APU+C, ACU, ACU+P, All path etc. | |
| 6 | | 12 March, 2015 | Black box testing, Equivalence class partitioning | |
| 7 | | 16 March, 2015 | Boundary value analysis | |
| 8 | | 17 March, 2015 | Cause effect graphing | |
| 9 | | 18 March, 2015 | Robustness testing, load testing, stress testing | |
| 10 | | 19 March, 2015 | Acceptance testing: α, β, and γ testing. | |
| 11 | | 23 March, 2015 | Software configuration management (SCM), Configuration items, baseline, Goal of SCM | |
| 12 | | 24 March, 2015 | Change management, Version Control | |
| 13 | | 25 March, 2015 | Configuration Accounting, Configuration Audits | |
| 14 | | 26 March, 2015 | Formal Technical review (FTR), review meeting, composition of review team, review guidelines | |
| 15 | | 30 March, 2015 | Code inspection, Walk through, | |
| 16 | | 31 March, 2015 | Testing Object-oriented software, Difference between testing of object-oriented & procedure-oriented software | |

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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Dr. Ramesh Kait**  **Class: MCA 2ND Sem (Section A & B)**  **Subject: OOP’s Using C++**  **LectureTime: 11:00 to 12:00 AM and 2:00 to 3:00 PM** | | |
| **Sr. No** | **Date** | **Topic** |
|  | 02-03-2015 | Derivation Rules, Single Inheritance, Multiple Inheritance |
|  | 03-03-2015 | Continued… |
|  | 09-03-2015 | Hierarchical Inheritance |
|  | 10-03-2015 | Multilevel Inheritance |
|  | 11-03-2015 | Roles of constructors and destructors in inheritance. |
|  | 12-03-2015 | Pure abstract Classes |
|  | 16-03-2015 | Continued |
|  | 17-03-2015 | Virtual functions and their needs |
|  | 18-03-2015 | Continued |
|  | 19-03-2015 | virtual derivation and its need |
|  | 24-03-2015 | Continued |
|  | 25-03-2015 | Programs and practices based on inheritance |
|  | 26-03-2015 | Programs and practices based on virtual functions |

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| **Lesson Plan for the Month of March 2015**  **Name of Teacher : VINOD KUMAR**  **Class : M.Tech (2nd Sem.)**  **Subject : Distributed Systems MT-CSE-14-24(i)**  **Lecture Time : 02:00 am to 03:00 pm ( Monday to Thursday)** | | |
| **Sr. No.** | **Date** | **Topic** |
| 1 | 02/03/2015  Monday | Unit-II Revision Clock Synchronization, Global Positioning System, Logical Clocks, Vector Clocks |
| 2 | 03/03/2015  Tuesday | Synchronization: Mutual Exclusion |
| 3 | 09/03/2015  Monday | Synchronization: Election Algorithm |
| 4 | 10/03/2015  Tuesday | Consistency and Replication: Introduction to replication in distributed environment |
| 5 | 11/03/2015  Wednesday | Consistency and Replication: Data-Centric Consistency Models |
| 6 | 12/03/2015  Thursday | Consistency and Replication: Client-Centric Consistency Models |
| 7 | 16/03/2015  Monday | Consistency and Replication: Replica Management |
| 8 | 17/03/2015  Tuesday | Consistency and Replication: Consistency Protocols |
| 9 | 18/03/2015  Wednesday | Unit-III Fault Tolerance: Faults and failures, Failure masking |
| 10 | 19/03/2015  Thursday | Fault Tolerance: Process Resilience, Design Issues |
| 11 | 24/03/2015  Tuesday | Fault Tolerance: Reliable Client Server Communication |
| 12 | 25/03/2015  Wednesday | Fault Tolerance: Reliable Group Communication |
| 13 | 26/03/2015  Thursday | Fault Tolerance: Distributed Commit, Recovery |
| 14 | 30/03/2015  Monday | Internal Assessment Test |
| 15 | 31/03/2015  Tuesday | Internal Assessment Test |
| **Lesson Plan for the Month of March 2015**  **Name of Teacher : VINOD KUMAR**  **Class : MCA (4th Sem.)**  **Subject : Artificial Intelligence MCA-405(iii)**  **Lecture Time : 11:00 am to 12:00 noon ( Monday to Thursday)** | | |
| **Sr. No.** | **Date** | **Topic** |
| 1 | 02/03/2015  Monday | Unit-II Revision Search strategies: Strategies for state space search-Data Driven and Goal Driven Search; Search Algorithms-Uninformed Search (Depth First, Breadth First, Depth First With Iterative Deepening) |
| 2 | 03/03/2015  Tuesday | Revision Search strategies: Informed Search (Hill Climbing, Best First, A\* Algorithm) |
| 3 | 09/03/2015  Monday | Search strategies: Minimum-Maximum |
| 4 | 10/03/2015  Tuesday | Search strategies: Computational Complexity |
| 5 | 11/03/2015  Wednesday | Search strategies: Properties of Search Algorithms-Admissibility |
| 6 | 12/03/2015  Thursday | Search strategies: Properties of Search Algorithms-Monotonicity |
| 7 | 16/03/2015  Monday | Search strategies: Properties of Search Algorithms-Optimality |
| 8 | 17/03/2015  Tuesday | Search strategies: Properties of Search Algorithms-Dominance |
| 9 | 18/03/2015  Wednesday | Unit-III Production system: Types of Production System |
| 10 | 19/03/2015  Thursday | Production system: Commutative and Non-Commutative Production Systems |
| 11 | 24/03/2015  Tuesday | Production system: Decomposable and Non-Decomposable Production Systems |
| 12 | 25/03/2015  Wednesday | Production system: Control of search in Production System |
| 13 | 26/03/2015  Thursday | Rule based expert systems: Architecture |
| 14 | 30/03/2015  Monday | Internal Assessment Test |
| 15 | 31/03/2015  Tuesday | Internal Assessment Test |

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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Anil Saini**  **Class: M.Tech (2nd Sem.)**  **Subject : High Performance Networks**  **Lecture Time: 09:00 am to 10:00 am ( Monday to Thursday)** | | |
| **Sr. No** | **Date** | **Topic** |
| 1 | 02/03/2015  Monday | Integrated Services, Differentiated Services |
| 2 | 03/03/2015  Tuesday | QoS in Frame Relay and ATM |
| 3 | 09/03/2015  Monday | Protocols for QoS Support: Resource Reservation-RSVP |
| 4 | 10/03/2015  Tuesday | Multiprotocol Label Switching, Real-Time Transport Protocol |
| 5 | 11/03/2015  Wednesday | High Speed Networks: Frame Relay Networks |
| 6 | 12/03/2015  Thursday | Asynchronous Transfer Mode (ATM), ATM protocol Architecture |
| 7 | 16/03/2015  Monday | ATMlogical connections, ATM cells, ATM Service categories |
| 8 | 17/03/2015  Tuesday | ATM Adaptation Layer , ATM Switching and Signaling |
| 9 | 18/03/2015  Wednesday | OpticalNetworks: SONET networks, SONET architecture |
| 10 | 19/03/2015  Thursday | High-Speed LANs: Bridged and Switched Ethernet, Fast Ethernet |
| 11 | 24/03/2015  Tuesday | Gigabit Ethernet, Wireless LANs: IEEE 802.11, Bluetooth, Introduction to HIPERLAN |
| 12 | 25/03/2015  Wednesday | WIMAX,RFID, Sensor Networks, Vehicular Networks |
| 13 | 26/03/2015  Thursday | Cellular Telephony, Generations, Cellular Technologies in different generations, GSM, CDMA, Satellite Networks |
| 14 | 30/03/2015  Monday | Internal Assessment Test |
| 15 | 31/03/2015  Tuesday | Internal Assessment Test |
| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Anil Saini**  **Class: MCA –B(4th Sem.)**  **Subject : Web Engineering**  **Lecture Time:Friday(09:00 am to 10:00 am, 11:00 am to 12:00 am) & Saturday(09:00 am to 10:00 am, 10:00 am to 11:00 am)** | | |
| **Sr. No** | **Date** | **Topic** |
| 1 | 13/03/2015  Friday | Introduction to CGI, PERL, URL, HTTP |
| 2 | 13/03/2015  Friday | Browser Requests, Server Responses, Proxies |
| 3 | 14/03/2015  Saturday | Firewalls, CGI Environment Variables |
| 4 | 14/03/2015  Saturday | Forms and CGI, Sending Data to the Server |
| 5 | 20/03/2015  Friday | Architectural Guidelines, Coding Guidelines |
| 6 | 20/03/2015  Friday | Efficiency and Optimization. Java Server Pages |
| 7 | 21/03/2015  Saturday | Active Server Pages, Integrating Scripts in JSP |
| 8 | 21/03/2015  Saturday | JSP Objects and Components |
| 9 | 27/03/2015  Friday | JSP: Request and response objects |
| 10 | 27/03/2015  Friday | PHP, PHP variables, ASP .NET |

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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: GIRDHAR GOPAL**  **Class: M.Tech. CSE 2nd Semester**  **Subject: MT-CSE-14-22 DIGITAL IMAGE PROCESSING**  **LectureTime: Mon-Thu (02.00 – 03.00 PM)** | | |
| **Sr. No** | **Date** | **Topic** |
|  | 02-03-2015 | Full color image processing, |
|  | 03-03-2015 | Color transformations, Smoothening and sharpening of images |
|  | 09-03-2015 | Image Restoration: Model of Image Degradation/Restoration process, |
|  | 10-03-2015 | Noise models, Linear, Inverse Filtering |
|  | 11-03-2015 | Mean Square Error Restoration |
|  | 12-03-2015 | Least Square Restoration |
|  | 16-03-2015 | Image Compression Fundamentals: Lossless and Lossy Compression |
|  | 17-03-2015 | Basic Compression Methods: Huffman Coding |
|  | 18-03-2015 | Run-Length Coding |
|  | 19-03-2015 | LZW Coding, Arithmetic Coding |
|  | 24-03-2015 | Bit-Plane Coding |
|  | 25-03-2015 | Predictive Coding, Transform Coding |
|  | 26-03-2015 | Wavelet Coding, Compression standards |
|  | 30-03-2015 | Sessional Exams |
|  | 31-03-2015 | Sessional Exams |

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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Anu**  **Class:MCA (4thSem.)**  **Subject: Theory of Computation (MCA -405-IV)**  **LectureTime: 11.00 am to 12.00 am** | | |
| **Sr. No** | **Date** | **Topic** |
| 1. | 02/03/2015  Monday | Pushdown Automata( PDA) |
| 2. | 03/03/2015  Tuesday | Deterministic Pushdown Automata( PDA) |
| 3. | 09/03/2015  Monday | Non –Equivalence of PDA and DPDA |
| 4. | 10/03/2015  Tuesday | Context –Free Grammars |
| 5. | 11/03/2015  Wednesday | Greibach Normal Form (GNF) |
| 6. | 12/03/2015  Thursday | Chomsky Normal Form (CNF) |
| 7. | 16/03/2015  Monday | Ambiguity |
| 8. | 17/03/2015  Tuesday | Parse Tree Representation of Derivations |
| 9. | 18/03/2015  Wednesday | Equivalence of PDA’s and CFG’s |
| 10. | 19/03/2015  Thursday | Parsing techniques for parsing of general CFG’s |
| 11. | 24/03/2015  Tuesday | Parsing technique : Early’s |
| 12. | 25/03/2015  Wednesday | Cook-Kassami-Younger (CKY) |
| 13. | 26/03/2015  Thursday | Tomita’s parsing |

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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Anu**  **Class:MCA -A(4thSem.)**  **Subject: Object Oriented Methodology**  **LectureTime: 12.00 am to 1.00 pm** | | |
| **Sr. No** | **Date** | **Topic** |
| 1. | 03/03/2015  Tuesday | Dynamic Modeling: Event, State |
| 2. | 10/03/2015  Tuesday | Activity, Action, Conditions |
| 3. | 11/03/2015  Wednesday | Statechart diagrams |
| 4. | 12/03/2015  Thursday | event generalization, concurrency, entry & exit actions |
| 5. | 17/03/2015  Tuesday | internal actions, synchronization of concurrent activities |
| 6. | 18/03/2015  Wednesday | Nested state diagrams |
| 7. | 19/03/2015  Thursday | Functional Modeling: Data Flow Diagram (DFD) |
| 8. | 24/03/2015  Tuesday | nested DFD, control flows |
| 9. | 25/03/2015  Wednesday | Scenario, Event Trace diagram |
| 10. | 26/03/2015  Thursday | Adding operations, Relationships between object model |

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| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Anu**  **Class: MCA -B (4th Sem.)**  **Subject: Object Oriented Methodology**  **Lecture Time: 2.00 pm to 3.00 pm** | | |
| **Sr. No** | **Date** | **Topic** |
| 1. | 02/03/2015  Monday | Dynamic Modeling: Event, State |
| 2. | 03/03/2015  Tuesday | Activity, Action, Conditions |
| 3. | 09/03/2015  Monday | State chart diagrams |
| 4. | 10/03/2015  Tuesday | event generalization, concurrency, entry & exit actions |
| 5. | 11/03/2015  Wednesday | internal actions, synchronization of concurrent activities |
| 6. | 16/03/2015  Monday | Nested state diagrams |
| 7. | 17/03/2015  Tuesday | Functional Modeling: Data Flow Diagram (DFD) |
| 8. | 18/03/2015  Wednesday | nested DFD, control flows |
| 9. | 24/03/2015  Tuesday | Scenario, Event Trace diagram |
| 10. | 25/03/2015  Wednesday | Adding operations, Relationships between object model |

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| **Submitted By: Dr. Kanwal Garg**  **Class: MCA – 4th Semester Section ‘A’ & ‘B’**  **Paper Code: MCA- 402 (Data Warehousing and Data Mining)**  **Lecture time: Section- A (9.00 AM to 10.00 AM) Section –B (12.00 noon to 1.00 PM)** | | |
| **Sr. No** | **Date** | **Topic** |
|  | 02/03/2015 | Major issues, From Data Warehousing to Data Mining. |
|  | 03/03/2015 | Data Preparation: Preprocess |
|  | 09/03/2015 | Data Cleaning |
|  | 10/03/2015 | Data Integration and Transformation |
|  | 11/03/2015 | Data Reduction |
|  | 12/03/2015 | Data Mining Primitives, Languages, and System Architectures |
|  | 16/03/2015 | Concept Description: An Overview of Descriptive Data Mining |
|  | 17/02/2015 | Predictive Data Mining, Methods for Concept Description. |
|  | 18/02/2015 | Mining Association Rules: Association Rule Mining, |
|  | 19/02/2015 | Market Basket Analysis |
|  | 24/03/2015 | Types of Association Rules |
|  | 25/02/2015 | Methods for Mining Association Rules in Transaction Databases |
|  | 30/03/2015 | Relational Databases and Data Warehouses |
|  | 31/03/2015 | Classification and Prediction: Methods for Data Classification and Prediction. |

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| **Submitted By: Dr. Kanwal Garg**  **Class: MCA – 4th Semester Section ‘A’ & ‘B’**  **Paper Code: MCA- 402 (Data Warehousing and Data Mining)**  **Lecture time: Section- A (9.00 AM to 10.00 AM) Section –B (12.00 noon to 1.00 PM)** | | | | | | | | | | |
| **Sr. No** | | | | | **Date** | | **Topic** | | | |
|  | | | | | 02/03/2015 | | The Evolution of Data Warehousing (The Historical Context), The Data Warehouse - A Brief History, Characteristics, | | | |
|  | | | | | The Evolution of Data Warehousing (The Historical Context), The Data Warehouse - A Brief History, Characteristics, | | | |
|  | | | | | 03/02/2015 | | Operational Database Systems and Data Warehouse (OLTP & OLAP), Today’s Development Environment, Data Marts, Metadata. | | | |
|  | | | | | Operational Database Systems and Data Warehouse (OLTP & OLAP), Today’s Development Environment, Data Marts, Metadata. | | | |
|  | | | | | 09/03/2015 | | Types of Data and their Uses, from Tables and Spreadsheets to Data Cubes | | | |
|  | | | | | Types of Data and their Uses, from Tables and Spreadsheets to Data Cubes | | | |
|  | | | | | 10/03/2015 | | Identifying Facts and Dimensions, Designing Fact Tables, Designing Dimension Tables, Data Warehouse Schemas | | | |
|  | | | | | Identifying Facts and Dimensions, Designing Fact Tables, Designing Dimension Tables, Data Warehouse Schemas | | | |
|  | | | | | 11/03/2015 | | OLAP Operations. | | | |
|  | | | | | OLAP Operations. | | | |
|  | | | | | 12/03/2015 | | System Processes, Data Warehousing Components | | | |
|  | | | | | System Processes, Data Warehousing Components | | | |
|  | | | | | 16/03/2015 | | Architecture for a Data Warehouse, Three-tier Data Warehouse Architecture | | | |
|  | | | | | Architecture for a Data Warehouse, Three-tier Data Warehouse Architecture | | | |
|  | | | | | 17/02/2015 | | Steps for the Design and Construction of Data Warehouses. | | | |
|  | | | | | Steps for the Design and Construction of Data Warehouses. | | | |
|  | | | | | 18/02/2015 | | Implementation: Methods for the Implementation of Data Warehouse Systems. | | | |
|  | | | | | Implementation: Methods for the Implementation of Data Warehouse Systems. | | | |
|  | | | | | 19/02/2015 | | Group Discussion Covering the Entire contents of Unit- I  Remedial/ Bridge Class (play and game method) lecture for slow learner. | | | |
|  | | | | | Group Discussion Covering the Entire contents of Unit- I  Remedial/ Bridge Class (play and game method) lecture for slow learner. | | | |
|  | | | | | 24/03/2015 | | Data Mining: Introduction: Motivation, Importance, Knowledge Discovery Process, KDD and Data Mining, Data Mining vs. Query Tools | | | |
|  | | | | | Data Mining: Introduction: Motivation, Importance, Knowledge Discovery Process, KDD and Data Mining, Data Mining vs. Query Tools | | | |
|  | | | | | 25/02/2015 | | Kind of Data, Functionalities, Interesting Patterns, Classification of Data Mining Systems | | | |
|  | | | | | Kind of Data, Functionalities, Interesting Patterns, Classification of Data Mining Systems | | | |
| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Mrs. Yogita Sangwan**  **Class:** MCA-1STA & B  **Subject :** WEB TECHNOLIGIES  **Lecture Time:03:00 to 04:00 and 4:00 to 5:00** | | | | | | | | | | |
| **Sr. No** | | | **DATE** | | | **TOPIC** | | | | |
|  | | | 09/3/2015  Monday | | | Cascading style sheets | | | | |
|  | | | 10/3/2015  Tuesday | | | Features ,core syntax and Types | | | | |
|  | | | 11/3/2015  Wednesday | | | Style rule and Cascading | | | | |
|  | | | 12/3/2015  Thursday | | | Cascading and Text properties | | | | |
|  | | | 16/3/2015  Monday | | | CSS Box Model | | | | |
|  | | | 17/3/2015  Tuesday | | | Normal Flow Box Model Layout | | | | |
|  | | | 18/3/2015  Wednesday | | | Positioning Properties | | | | |
|  | | | 19/3/2015  Thursday | | | Introduction to JAVA Script | | | | |
|  | | | 23/3/2015  Monday | | | Prespectives and Basic Syntax | | | | |
|  | | | 24/3/2015  Tuesday | | | Data Types and Statement | | | | |
|  | | | 25/3/2015  Wednesday | | | Literals and Function | | | | |
|  | | | 26/3/2015  Thursday | | | Objects and Arrays | | | | |
|  | | | 30/3/2015  Monday | | | Built in Objects | | | | |
|  | | | 31/3/2015  Tuesday | | | Debuggers | | | | |
| **Dr. Chander Kant Sub: MCA-403 Programming in JAVA** | | | | | | | | | | |
| Sr. No | | | date | | | Topic | | | | |
|  | | | 2 | | | Exception Handling | | | | |
|  | | | 3 | | | Multithreading | | | | |
|  | | | 9 | | | Applet | | | | |
|  | | | 10 | | | Applet Graphics | | | | |
|  | | | 11 | | | Applet Life Cycle | | | | |
|  | | | 12 | | | JDK in Applet, | | | | |
|  | | | 16 | | | I/O Stream | | | | |
|  | | | 17 | | | Ch. Stream, Byte Stream | | | | |
|  | | | 18 | | | Interface | | | | |
|  | | | 19 | | | Interface | | | | |
|  | | | 24 | | | Thread Cycle | | | | |
|  | | | 25 | | | Applet Problems | | | | |
|  | | | 26 | | | AWT Problems | | | | |
|  | | | 30 | | | AWT Problems | | | | |
|  | | | 31 | | | AWT Problems | | | | |
| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Ishan Jawa**  **Class: M.sc Computer Science**  **Subject: Principles of Programming Languages**  **LectureTime:** | | | | | | | | | | |
| **Sr. No** | | | | | | **Date** | | **Topic** | | |
| 1 | | | | | | 9/3/15 | | Object Oriented Programming Concepts | | |
| 2 | | | | | | 10/3/15 | | Class and Objects | | |
| 3 | | | | | | 11/3/15 | | Polymorphism | | |
| 4 | | | | | | 12/3/15 | | Inheritence | | |
| 5 | | | | | | 16/3/15 | | Exception handling | | |
| 6 | | | | | | 17/3/15 | | Language Design Criteria | | |
| 7 | | | | | | 18/3/15 | | Language Paradigms | | |
| 8 | | | | | | 19/3/15 | | Type checking and coercion | | |
| 9 | | | | | | 23/3/15 | | Data types | | |
| 10 | | | | | | 24/3/15 | | Names and Referencing Environment | | |
| 11 | | | | | | 25/3/15 | | Static Scoping | | |
| 12 | | | | | | 26/3/15 | | Dynamic Scoping | | |
| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Ishan Jawa**  **Class: M.sc Computer Science**  **Subject: Design and Analysis of Algorithms**  **LectureTime:** | | | | | | | | | | |
| **Sr. No** | | | | | | **Date** | | **Topic** | | |
| 1 | | | | | | 9/3/15 | | Formation of Recurrence Relations | | |
| 2 | | | | | | 10/3/15 | | Iterative method of solving recurrences | | |
| 3 | | | | | | 11/3/15 | | Master Theoram | | |
| 4 | | | | | | 12/3/15 | | Introduction to Graphs | | |
| 5 | | | | | | 16/3/15 | | Shortest Paths and Minimum Spanning Tree | | |
| 6 | | | | | | 17/3/15 | | B-Trees | | |
| 7 | | | | | | 18/3/15 | | Matrix Chain Multiplication | | |
| 8 | | | | | | 19/3/15 | | Elements of Dynamic Programming | | |
| 9 | | | | | | 23/3/15 | | Knapsack Poblem | | |
| 10 | | | | | | 24/3/15 | | Longest Common Subsequence | | |
| 11 | | | | | | 25/3/15 | | Binary Search Trees | | |
| 12 | | | | | | 26/3/15 | | Operations on Binary Search Trees | | |
| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Dr. Sanjay Tyagi**  **Class: MCA – 4th Semester**  **Subject: MCA-405 (ELECTIVE-ii) MANAGEMENT INFORMATION SYSTEM**  **Lecture Time: 11.00 AM - 12.00 NOON** | | | | | | | | | | | | |
| **Sr. No** | | | | | **Date** | | | **Topic** | | | | |
| 1 | | | | | 2/3/2015 | | | Defining IT Infrastructure | | | | |
| 2 | | | | | 3/3/2015 | | | Evolution of IT Infrastructure | | | | |
| 3 | | | | | 9/3/2015 | | | Technology Drivers for Infrastructure Evolution | | | | |
| 4 | | | | | 10/3/2015 | | | Infrastructure Components: Hardware / Software / OS Platforms | | | | |
| 5 | | | | | 11/3/2015 | | | Enterprise Software Applications, Data Management & Storage | | | | |
| 6 | | | | | 12/3/2015 | | | Data management & Storage, Networking/Internet Platforms | | | | |
| 7 | | | | | 16/3/2015 | | | Consulting & System Integration services | | | | |
| 8 | | | | | 17/3/2015 | | | Contemporary Hardware Platform Trends – I | | | | |
| 9 | | | | | 18/3/2015 | | | Contemporary Hardware Platform Trends –II | | | | |
| 10 | | | | | 19/3/2015 | | | Contemporary Software Platform Trends | | | | |
| 11 | | | | | 24/3/2015 | | | Organizing Data in a Traditional File Environment , Database Approach to Data Management | | | | |
| 12 | | | | | 25/3/2015 | | | Using database to improve business performance & decision making | | | | |
| 13 | | | | | 26/3/2015 | | | Managing Data Resources | | | | |
| 14 | | | | | 30/3/2015 | | | Sessional Exams | | | | |
| 15 | | | | | 31/3/2015 | | |
| **Lesson Plan For the Month of March 2015**  **Name of Teacher: Dr. Sanjay Tyagi**  **Class: M.Sc. Computer Science 2nd Semester**  **Subject: MS-23 (LINUX & SHELL PROGRAMMING)**  **Lecture Time: Friday (9 AM – 10 AM & 11 AM – 12 Noon) Saturday (9 AM – 10 AM & 10 AM – 11 AM)** | | | | | | | | | | | | |
| **Sr. No** | | | | | **Date** | | | **Topic** | | | | |
| 1 | | | | | 13/3/2015 | | | Communication-oriented Linux commands | | | | |
| 2 | | | | | 13/3/2015 | | | Process oriented Linux commands | | | | |
| 3 | | | | | 14/3/2015 | | | Commonly used Linux commands | | | | |
| 4 | | | | | 14/3/2015 | | | Regular expressions and their use | | | | |
| 5 | | | | | 20/3/2015 | | | Filters: more, wc, diff, sort | | | | |
| 6 | | | | | 20/3/2015 | | | Filters: uniq, grep, sed | | | | |
| 7 | | | | | 21/3/2015 | | | Linux/Unix files, inodes and structure | | | | |
| 8 | | | | | 21/3/2015 | | | Linux File system | | | | |
| 9 | | | | | 27/3/2015 | | | File system components, Standard file system | | | | |
| 10 | | | | | 27/3/2015 | | | File system types, File system mounting and unmounting | | | | |
| Lesson Plan for March 2015  Principles of Programming Language MCA- 14-23  Vishal Verma MCA-II (B)  Lecture time: 03:00 to 04:00(First two days) Friday(09:00-10:00 and 02:00-03:00 | | | | | | | | | | | | | |
| Sr. No. | | | Date | | | Topic | | | | | | | |
| 1. | | | 2 of march | | | Binding and Binding Time | | | | | | | |
| 2. | | | 3 | | | Language syntax, Analysis of Program | | | | | | | |
| 3. | | | 9 | | | Synthesis of Object Program, BNF Grammar, General Parsing | | | | | | | |
| 4. | | | 10 | | | Language Translation, Recursive descent parsing | | | | | | | |
| 5. | | | 11 | | | Structure data type, abstract data type, information hiding, subprogram, good program design | | | | | | | |
| 6. | | | 12 | | | Type design, type definition, type equivalence, inheritance, | | | | | | | |
| 7. | | | 13 | | | derived classes, abstract class,polymorphism | | | | | | | |
| 8. | | | 16 | | | Inheritance and software reuse | | | | | | | |
| 9. | | | 17 | | | Implicit and explicit sequence control | | | | | | | |
| 10. | | | 18 | | | Sequence control with arithmetic expression | | | | | | | |
| 11. | | | 19 | | | Sequence control between statements, non arithmetic expression | | | | | | | |
| 12. | | | 20 | | | Subprogram sequence control | | | | | | | |
| 13. | | | 24 | | | Parameter passing techniques | | | | | | | |
| 14. | | | 25 | | | Static and dynamic scoping, storage of variables | | | | | | | |
| 15. | | | 26 | | | Static storage | | | | | | | |
| 16. | | | 27 | | | Heap storage management | | | | | | | |

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| Lesson plan for March 2015  Advances in Databases MT-CSE-14-23(iii)  Dr. Vishal Verma  Lecture Time: 09:00-10:00 | | |
| Sr. No. | Date | Topics |
| 1. | 2 of march | Object oriented concepts, object identity , |
| 2. | 3 | Object structure, |
| 3. | 9 | Type constructor |
| 4. | 10 | Encapsulation of operations, methods |
| 5. | 11 | Persistence and Inheritance |
| 6. | 12 | Type hierarchies and Complex objects, |
| 7. | 16 | Query processing and |
| 8. | 17 | Optimization |
| 9. | 18 | Using heuristics in query optimization |
| 10. | 19 | Tuning in relational database |
| 11. | 24 | Architecture for parallel database |
| 12. | 25 | Distributed database concept |
| 13. | 26 | Data fragmentation, and its type, replcation |