

Lesson Plan

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| Name of the Faculty: | Er. Rajiv Bansal/ Dr. Monika/ Er. Seema |
| Discipline: | B.Tech(CSE) |
| Semester: | 4th |
| Subject: | Design and Analysis of Algorithms(PC-CS-208A) |
| Work Load (Lecture/Practical) per week (In hours): | Lecture-3 |

| S.No | Lecture No. | Theory | |
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| | | Topic(Including Assignment/Test/Quiz) | Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study) |
| 1. | L1 | Introduction to Elementary Data Structures:Stack,Queue, LinkedList,Tree ,Graph | Chalk and Board |
| 2. | L2 | Algorithms & its complexity(Time & Space), Analysing Algorithms | Chalk and Board |
| 3. | L3 | Asymptotic Notations | Chalk and Board |
| 4. | L4 | Priority Queue, Quick Sort | Chalk and Board |
| 5. | L5 | Merge sort. | Chalk and Board |
| 6. | L6 | Methods for solving recurrence(Substitution , Recursion tree) | Chalk and Board |
| 7. | L7 | Master theorem, Strassen's multiplication | Chalk and Board |
| 8. | | Assignment | |
| 9. | L8 | Dynamic programming: Elements, Matrix-chain multiplication | PPT/ Chalk and Board |
| 10. | L9 | Longest common subsequence | PPT/ Chalk and Board |
| 11. | | Test | |
| 12. | L10 | Greedy algorithms: Elements , Activity- Selection problem | PPT/ Chalk and Board |
| 13. | L11 | Binomial heaps, Fibonacci heaps, | PPT/ Chalk and Board |
| 14. | L12 | Splay Trees | Chalk and Board |
| 15. | L13 | Red-Black Trees | Chalk and Board |
| 16. | L14 | Review of graph algorithms | PPT/ Chalk and Board |
| 17. | L15 | Traversal Methods(Depth first & Breadth first search), | PPT/ Chalk and Board |
| 18. | L16 | Topological sort, | PPT/ Chalk and Board |
| 19. | L17 | Strongly connected components | PPT/ Chalk and Board |
| 20. | L18 | Kruskal's Algorithm | PPT/ Chalk and Board |
| 21. | L19 | Prim's Algorithm | PPT/ Chalk and Board |
| 22. | L20 | Single source shortest paths, Relaxation, | PPT/ Chalk and Board |

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| 23. | | Assignment | |
| 24. | L21 | Dijkstra's Algorithm | PPT/ Chalk and Board |
| 25. | L22 | Bellman- Ford algorithm, | PPT/ Chalk and Board |
| 26. | L23 | Single source shortest paths for directed acyclic graphs | PPT/ Chalk and Board |
| 27. | L24 | Floyd-Warshall algorithm | PPT/ Chalk and Board |
| 28. | L25 | Revision of important concept of Graph (unit-3) | PPT/ Chalk and Board |
| 29. | L26 | Computational Complexity:Basic Concepts, | PPT/ Chalk and Board |
| 30. | L27 | Polynomial vs Non-Polynomial | PPT/ Chalk and Board |
| 31. | L28 | Complexity of Graph | PPT/ Chalk and Board |
| 32. | L29 | NP- hard | PPT/ Chalk and Board |
| 33. | L30 | NP-complete classes | PPT/ Chalk and Board |
| 34. | L31 | Flow and Sorting Networks, | PPT/ Chalk and Board |
| 35. | L32 | Flow networks | PPT/ Chalk and Board |
| 36. | L33 | Ford- Fulkerson method, | PPT/ Chalk and Board |
| 37. | L34 | Maximum bipartite matching, | PPT/ Chalk and Board |
| 38. | L35 | Sorting Networks, Comparison network | PPT/ Chalk and Board |
| 39. | L36 | Zero- one principle, Bitonic sorting network | PPT/ Chalk and Board |
| 40. | L37 | merging network | PPT/ Chalk and Board |
| 41. | L38 | Revision of Unit 4 Concepts | PPT/ Chalk and Board |

LESSON PLAN

| Name of the Faculty: | | Dr. Vandna Rani | |
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| Discipline: | | B.Tech (IT/CSE) | |
| Semester: | | 4th | |
| Subject: | | Universal Human Values II HSMC (HTM-901A) | |
| Work Load (Lecture/Practical) per week (In hours): | | Lecture-3 | |
| Sr. No. | Lecture No. | Topic (Including Assignment/Test/Quiz/Activity) | Pedagogy(PPT/Video Lecture/Activity/Marker & Board/Case-Study) |
| 1 | L1 | <u>Module-1: Course Introduction: Need,</u> | Lecture |
| 2 | L2 | <u>Basic Guidelines, Content and Process for Value Education</u> | PPT & Self Reflection |
| 3 | L3 | Purpose and motivation for the course, recapitulation from Universal Human Values-I | PPT & Self Reflection |
| 4 | L4 | Self-Exploration: Meaning, content and process. Natural Acceptance | PPT& Self Reflection |
| 5 | L5 | Experiential Validation as the process for self-exploration | PPT & Self Reflection |
| 6 | L6 | Experiential Validation as the process for self-exploration | PPT& Self Reflection |
| 7 | L7 | Continuous Happiness and Prosperity- A look at basic Human Aspirations | PPT& Self Reflection |
| 8 | L8 | Right understanding, Relationship and Physical Facility: the basic requirements for fulfillment of aspirations of every human being with their correct priority | PPT & Self Reflection |
| 9 | L9 | Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario | PPT & Self Reflection |
| 10 | L10 | Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario | PPT & Self Reflection |
| 11 | L11 | Method to fulfill the above human aspirations: understanding and living in harmony at various levels. | PPT & Self Reflection |
| 12 | L12 | Method to fulfil the above human aspirations: understanding and living in harmony at various levels. | PPT & Self Reflection |
| 13 | L13 | Practice sessions to discuss natural acceptance in human being | Lecture |
| 14 | | ASSIGNMENT-1 | In Hard Copy |
| 15 | L14 | <u>Module 2: Understanding Harmony in the Human Being - Harmony in Myself!</u> Understanding human being as a co-existence of the sentient 'I' and the material Body | Lecture |
| 16 | L15 | Understanding the needs of Self ('I') and 'Body' - happiness and physical facility | PPT & Self Reflection |
| 17 | L16 | Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer) | PPT & Self Reflection |

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| 18 | L17 | Understanding the characteristics and activities of 'I' and harmony in 'I' | PPT & Self Reflection |
| 19 | L18 | Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail | PPT & Self Reflection |
| 20 | L19 | Programs to ensure Sanyam and Health. | PPT & Self Reflection |
| 21 | L20 | Practice sessions to discuss the role others have played in making material goods available to me | Lecture |
| 22 | | TEST-1 | |
| 23 | L21 | Differentiate between prosperity and accumulation. Discuss program for ensuring health vs dealing with disease | PPT & Self Reflection |
| 24 | L22 | <u>Module 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship</u> Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfilment to ensure mutual happiness; Trust and Respect as the foundational values of relationship | Lecture & Video |
| 25 | L22 | Understanding the meaning of Trust; Difference between intention and competence | PPT & Self Reflection |
| 26 | L23 | Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship | PPT & Self Reflection |
| 27 | L24 | Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals | PPT & Self Reflection |
| 28 | L25 | Visualizing a universal harmonious order in society- Undivided Society. Universal Order - from family to world family. | Lecture |
| 29 | L27 | Gratitude as a universal value in relationships. Discuss scenarios Elicit examples from students' lives | PPT & Self Reflection |
| 30 | | QUIZ | |
| 31 | L28 | <u>Module 4: Understanding Harmony in the Nature and Existence - Whole existence as Coexistence</u> Understanding the harmony in the Nature | Lecture |
| 32 | L29 | Interconnectedness and mutual fulfillment among the four orders of nature - recyclability and self - regulation in nature. | PPT & Self Reflection |
| 33 | L30 | Understanding Existence as Co-existence of mutually interacting units in all-pervasive space | PPT & Self Reflection |
| 34 | L31 | Holistic perception of harmony at all levels of existence | PPT & Chalk |
| 35 | | TEST-2 | |
| 36 | L32 | <u>Module 5: Implications of the above Holistic Understanding of Harmony on Professional Ethics - Natural acceptance of human values</u> | Lecture |
| 37 | L33 | Definitiveness of Ethical Human Conduct | Lecture |

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| 38 | L34 | Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order | PPT & Self Reflection |
| 39 | L35 | Competence in professional ethics: a. Ability to utilize the professional competence for augmenting universal human order b. Ability to identify the scope and characteristics of people- friendly and eco-friendly production systems, c. Ability to identify and develop appropriate technologies and management patterns for above production systems. | PPT & Self Reflection |
| 40 | L36 | Case studies of typical holistic technologies, management models and production systems | PPT & Self Reflection |
| 41 | L37 | Strategy for transition from the present state to Universal Human Order: a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers b. At the level of society: as mutually enriching institutions and organizations | Lecture & Chalk |
| 42 | L38 | Sum up of program | Lecture |
| 43 | | Assignment-2 | In Hard Copy |
| 44 | L39 | Revision Module1 & 2 | Lecture |
| 45 | L40 | Revision Module 3&4 | Lecture |
| 46 | L41 | Revision Module5 | Lecture |

Lesson Plan

| Name of the Faculty: | | | Dr. L.S.Reen/ Ms. Khushbu |
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| Discipline: | | | B.Tech CSE |
| Semester: | | | 4th Sem |
| Subject: | | | Discrete Mathematics(PC-CS-202A) |
| Work Load (Lecture/Practical) Per week (in hours): | | | Lecture – 3 |
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| Sr No. | Lecture No. | Theory | Pedagogy (PPT& Chalk-Board and Board/Video Recording /Activity/Case Study) |
| | | Topic (Including Assignment/Test/Quiz) | |
| 1. | L1. | Unit-1 Sets Introduction, Subsets | Marker and Board |
| 2. | L2. | Veinn Diagram, operations on sets | Marker and Board |
| 3. | L3. | Laws of set theory | Marker and Board |
| 4. | L4. | Power, product &partition of sets | Marker and Board |
| 5. | L5. | Principle of Exclusion &inclusion | Marker and Board |
| 6. | L6 | Proposition, Logical operations | Marker and Board |
| 7. | L7 | Truth Tables, Equivalence, Implications | Marker and Board |
| 8. | L8 | Laws of logic, Normal form | Assignment from 1st Unit |
| 9. | L9 | Predicates&Quantifier, Mathematical Induction | Test from 1st unit |
| 10. | L10 | Unit-2 Product, Partition, Relation | Marker and Board |
| 11. | L11 | Path in relation, Diagraphs, Properties of relation | Marker and Board |
| 12. | L12 | Equivalence, partially ordered relation | Marker and Board |
| 13. | L13 | Computer Representation. Of relation & diagraphs | Marker and Board |
| 14. | L14 | Manipulation of relation | Marker and Board |
| 15. | L15 | Transitive Closure | Marker and Board |
| 16. | L16 | Warshall’s Algorithm | Assignment from 2nd unit |
| 17. | L17 | Posets, Hasse diag., Lattice | Marker and Board |
| 18. | L18 | Lattice Continue | Test from 2ND unit |
| 19. | L19 | Unit-3 Definitions and types of functions | |

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| 20. | L20 | Injective, Subjective and bijective | Marker and Board |
| 21. | L21 | Composition, Identity and inverse | Marker and Board |
| 22. | L22 | Review of Permutation and combination | Marker and Board |
| 23. | L23 | Pigeon hole principle | Assignment form 3rd Unit |
| 24. | L24 | Principle of inclusion and exclusion | Marker and Board |
| 25. | L25 | Recurrence relations | Marker and Board |
| 26. | L26 | Generating function | Test from 3rd unit |
| 27. | L27 | Unit-4 Algebraic structures with one binary operation- semigroups | Marker and Board |
| 28. | L28 | Monoids and groups | Marker and Board |
| 29. | L29 | Product of algebraic structures | Marker and Board |
| 30. | L30 | Quotient of algebraic structures | Marker and Board |
| 31. | L31 | Isomorphism, homomorphism, automorphism | Marker and Board |
| 32. | L32 | Isomorphism, homomorphism, automorphism continue | Assignment from 4th unit |
| 33. | L33 | Cyclic groups | Marker and Board |
| 34. | L34 | Normal sub groups | Marker and Board |
| 35. | L35 | Codes and group codes | Marker and Board |
| 36. | L36 | Ring | Marker and Board |
| 37. | L37 | Ring homomorphism and isomorphism | Test from 4th unit |
| 38. | L38 | Revision | Assignment for important questions |
| 39. | L39 | Doubt session | Marker and Board |

Lesson Plan

| Name of the Faculty: | | | Dr.Gaurav Sharma/ Er. Sonia/ Er. Meenakshi |
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| Discipline: | | | B.Tech CSE |
| Semester: | | | 4th |
| Subject: | | | Operating Systems (PC-CS-206A) |
| Work Load (Lecture/Practical)Per week (in hours): | | | Lecture-3 |
| | | | |
| Sr No. | Lecture No. | Theory | Pedagogy (PPT& Chalk-Board and Board/Video Recording /Activity/Case Study) |
| | | Topic(Including Assignment/Test/Quiz) | |
| 1 | L1 | Unit 1 -Introduction to OS. Operating system functions | PPT |
| 2 | L2 | Different types of O.S.: batch process, multi-programmed, time-sharing, real-time, distributed | PPT |
| 3 | L3 | Parallel O.S. | PPT |
| 4 | L4 | System Structure: Computer system operation, I/O structure | PPT |
| 5 | L5 | Storage structure, storage hierarchy | PPT |
| 6 | L6 | Different types of protections | PPT |
| 7 | L7 | Operating system structure (simple, layered, virtual machine) | PPT |
| 8 | L8 | O/S services, system calls. | PPT |
| 9 | | Class test | Offline |
| 10 | L9 | Unit 2 -CPU scheduling: scheduling criteria | Chalk-Board |
| 11 | L10 | Preemptive & non-preemptive scheduling | Chalk-Board |
| 12 | L11 | Scheduling algorithms, | Chalk-Board |
| 13 | L12 | Algorithm evaluation, multi-processor scheduling. | Chalk-Board |
| 14 | L13 | Threads: overview, benefits of threads | PPT |
| 15 | L14 | User and kernel threads | PPT |
| 16 | L15 | Process Management: Concept of processes | PPT |
| 17 | L16 | Process states, process control | PPT |
| 18 | L17 | Co-operating processes, inter-process communication. | PPT |

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| 19 | L18 | Process Synchronization: background, critical section problem | PPT |
| 20 | L19 | Critical region, synchronization hardware, Classical problems of synchronization, semaphores | PPT |
| 21 | | Assignment based on scheduling | Offline |
| 22 | L20 | Unit 3 -Deadlocks: Concept of deadlock, deadlock characterization | PPT & Chalk-Board |
| 23 | L21 | Deadlock prevention, deadlock avoidance | PPT & Chalk-Board |
| 24 | L22 | Deadlock detection, recovery from deadlock | PPT & Chalk-Board |
| 25 | L23 | Memory Management: background, logical vs. physical address space | PPT & Chalk-Board |
| 26 | L24 | Contiguous memory allocation | PPT & Chalk-Board |
| 27 | L25 | Paging, segmentation | PPT & Chalk-Board |
| 28 | L26 | Segmentation with paging. Concept of fragmentation | PPT & Chalk-Board |
| 29 | L27 | Virtual Memory: background | PPT & Chalk-Board |
| 30 | L28 | Demand paging, concept of page replacement | PPT & Chalk-Board |
| 31 | L29 | Page replacement algorithms | PPT & Chalk-Board |
| 32 | L30 | Allocation of frames, thrashing. | PPT & Chalk-Board |
| 33 | L31 | Unit 4 -File Systems: file concept, file organization and access methods | PPT & Chalk-Board |
| 34 | L32 | Allocation methods, directory structure, Free-space management | PPT & Chalk-Board |
| 35 | L33 | I/O Management: I/O hardware, polling, interrupts, DMA, kernel I/O subsystem (scheduling, buffering, caching, spooling and device reservation) | PPT & Chalk-Board |
| 36 | L34 | Disk Management: disk structure , Disk scheduling (FCFS, SSTF, SCAN,C-SCAN) | PPT & Chalk-Board |
| 37 | L35 | Disk reliability, disk Performance parameters, Protection & Security: Goals of protection and security | PPT & Chalk-Board |
| 38 | L36 | Security attacks, authentication, Program threats, system threats, threat monitoring.Case studies: UNIX file system, Windows file system | PPT & Chalk-Board |
| 39 | | Queries of 4th unit | Offline |

Lesson Plan

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| Name of the Faculty: | Dr. Gaganpreet/ Er.Rajiv Bansal / Er.Ritu Rajal |
| Discipline: | B.Tech(CSE) |
| Semester: | 4th |
| Subject: | Internet Technology and Management (PC-CS-204A) |
| Work Load(Lecture/Practical) per week (In hours): | Lecture-3 |

| S.No | Lecture No. | Theory | |
|------|-------------|--|--|
| | | Topic(Including Assignment/Test/Quiz) | Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study) |
| 1. | L1. | Introduction To Networks And Internet | Chalk and Board, PPT |
| 2. | L2. | History, Internet, Intranet And Extranet. | PPT, Chalk and Board |
| 3. | L3. | Internet Congestion, Internet Culture, Business Culture On Internet | Chalk and Board, PPT |
| 4. | L4. | Collaborative Computing And The Internet | Chalk and Board, PPT |
| 5. | L5. | Working Of Internet. Modes Of Connecting To Internet, Internet Service Providers(Isps) | Chalk and Board, PPT |
| 6. | L6. | Internet Address, Standard Address | Chalk and Board, PPT |
| 7. | L7. | Domain Name, Dns | Chalk and Board, PPT |
| 8. | L8. | Ip.V6.Modems, Speed And Time Continuum | PPT, Chalk and Board |
| 9. | L9. | Communications Software, Internet Tools | Chalk and Board, PPT |
| 10. | | Assignment1 | On Paper |
| 11. | L10. | Introduction, Miscellaneous Web Browser Details | Chalk and Board, PPT |
| 12. | L11. | Searching The Www: Directories Search Engines And Meta Search Engines | Chalk and Board |
| 13. | L12. | Search Fundamentals, Search Strategies, Working Of The Search Engines | Chalk and Board and PPT |
| 14. | L13. | Telnet And Ftp | Chalk and Board and PPT |
| 15. | L14. | Http, Gopher Commands , Tcp/Ip | Chalk and Board and PPT |

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| 16. | L15. | Introduction To Browser, Coast-To-Coast Surfing | Chalk and Board and PPT |
| 17. | L16. | Hypertext Markup Language, Web Page Installation | w3schools html - Search (bing.com) Chalk and Board and PPT |
| 18. | L17. | Web Page Setup, Basics Of Html(Teaching and assignment). | w3schools html - Search (bing.com) Chalk and Board and PPT |
| 19. | L18. | Formatting And Hyperlink Creation | Chalk and Board and PPT |
| 20. | | Assignment 2 | On Paper |
| 21. | L19. | Using Frontpage Express, Plug-Ins | Chalk and Board and PPT |
| 22. | L20. | Introduction, EMAIL Advantages And Disadvantages, | Chalk and Board and PPT |
| 23. | L21. | User Ids, Pass Words, E-Mail Addresses. | Chalk and Board and PPT |
| 24. | L22. | Message Composition, Mailer Features | Chalk and Board and PPT |
| 25. | L23. | E-Mail Inner Workings | Chalk and Board and PPT |
| 26. | L24. | E-Mail Management, Message Components, Mime Types | Chalk and Board and PPT |
| 27. | L25. | Newsgroups, Mailing Lists, Chat Rooms | Chalk and Board and PPT |
| 28. | L26. | Secure-Mails,SmtP | Chalk and Board and PPT |
| 29. | L27. | Pico, Pine, Library Cards Catalog | Chalk and Board and PPT |
| 30. | L28. | Online Ref. Works. Languages: Basic And Advanced Html | Chalk and Board and PPT |
| 31. | L29. | Basics Of Scripting Languages – Xml, Dhtml, Java Script(Teaching and assignment). | w3schools html - Search (bing.com) Chalk and Board and PPT |
| 32. | | Revision | |
| 33. | L30. | Introduction, Software Complexity, Attacks | Chalk and Board and PPT |
| 34. | L31. | Security And Privacy Levels | Chalk and Board, PPT |
| 35. | L32. | Microsoft Personal Web Server. Accessing and Using these Servers | Chalk and Board, PPT |
| 36. | L33. | Privacy And Security Topics: | Chalk and Board and PPT |
| 37. | L34. | Accessibility And Risk Analysis, Security Policy | Chalk and Board and PPT |
| 38. | L35. | Encryption Schemes, Secure Web Document | Chalk and Board, PPT |
| 39. | L36. | Digital Signatures, Firewalls | Chalk and Board, PPT |
| 40. | L37. | Intrusion Detection Systems | Chalk and Board, PPT |

Lesson Plan

| Name of the Faculty: | | Er. Shilpa/ Er. Kapil | |
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| Discipline: | | B.Tech | |
| Semester: | | 4th | |
| Subject: | | Environmental Sciences(MC-901A) | |
| Work Load(Lecture/Practical) per week (In hours): | | Lecture-2 | |
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| S.No | Lecture No. | Theory | Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study) |
| | | Topic(Including Assignment/Test/Quiz) | |
| 1 | 1 | Definition, Scope and multidisciplinary nature of environmental studies. | Lecture |
| 2 | 2 | Importance of EVS and Need for public awareness. | Lecture |
| 3 | 3 | Renewable and non-renewable resources, Forest resources | Lecture |
| 4 | 4 | Water resources | Lecture |
| 5 | 5 | Mineral resources | Lecture |
| 6 | 6 | Food resources | Lecture |
| 7 | 7 | Energy resources | Lecture |
| 8 | 8 | Land resources | Lecture |
| 9 | 9 | Case studies | Lecture/ PPT |
| 10 | 10 | Role of an individual in conservation of natural resources and Equitable use of resources for sustainable lifestyle. | Lecture |
| 11 | 11 | Concept, Structure and function of an ecosystem | Lecture |
| 12 | 12 | Producers, consumers and decomposers. Energy flow in the ecosystem. | Lecture |
| 13 | 13 | Biogeochemical Cycles, Ecological succession. | Lecture |
| 14 | 14 | Food chains, food webs and ecological pyramids. | Lecture |
| 15 | 15 | Characteristic features, structure and function of the Forest ecosystem and Grassland ecosystem | Lecture |
| 16 | 16 | Characteristic features, structure and function of the Desert ecosystem and Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries). | Lecture |
| 17 | | Test (Natural Resources & Ecosystem) | Pen& Paper |
| 18 | 17 | Introduction - Definition: genetic, species and eco-system diversity | Lecture |
| 19 | 18 | Biogeographical classification of India | Lecture |

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| 20 | 19 | Value of biodiversity | Lecture |
| 21 | 20 | India as a mega-diversity nation | Lecture |
| 22 | 21 | Hot-spots of biodiversity. | Lecture |
| 23 | 22 | Threats to biodiversity | Lecture |
| 24 | 23 | Endangered, endemic, vulnerable, extinct and rare species. | Lecture |
| 25 | 24 | Conservation of biodiversity | Lecture |
| 26 | 25 | Cause, effects and control measures of Air Pollution. | Lecture |
| 27 | 26 | Cause, effects and control measures of Water Pollution | Lecture |
| 28 | 27 | Soil Pollution and Marine Pollution | Lecture |
| 29 | 28 | Noise Pollution and Thermal Pollution | Lecture |
| 30 | 29 | Nuclear hazards, Solid waste management | Lecture |
| 31 | 30 | Role of an individual in prevention of pollution | Lecture |
| 32 | 31 | Pollution case studies | Lecture/PPT |
| 33 | 32 | Disaster management | Lecture/ PPT |
| 34 | | QUIZ | PPT |
| 35 | 33 | Sustainable development, Urban problems related to energy | Lecture |
| 36 | 34 | Water conservation Nuclear accidents and holocaust | Lecture |
| 37 | 35 | Resettlement and rehabilitation of people Environmental ethics:Issues and possible solutions | Lecture |
| 38 | 36 | Climate change, global warming, acid rain, ozone layer depletion | Lecture |
| 39 | 37 | Wasteland reclamation, Consumerism and waste products. | Lecture |
| 40 | 38 | Environment Protection Act.Air (Prevention and Control of Pollution) Act.Water (Prevention and Control of Pollution) Act. | Lecture |
| 41 | 39 | Wildlife Protection Act.Forest Conservation Act. Issues involved in the enforcement of environmental legislation Public awareness. | Lecture |
| 42 | 40 | Human Population and the Environment,Population growth, Variation among nations | Lecture |
| 43 | 41 | Population explosion- Family Welfare Programme. | Lecture |
| 44 | 42 | Human Rights, Value Education | Lecture |
| 45 | 43 | MV/AIDS, Women and Child Welfare | Lecture |
| 46 | 44 | Role of information Technology in Environment and human health. | Lecture |
| 47 | | Field Work/ Assignment | Practical/ Report |