Name of the Teacher: KAVITA KUKMARI Paper: BCA232 Class: BCA Sem -III

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | **Data Structures –An Overview, Algorithm Complexity** | **Group Discussion on Algorithm Complexity**  |
|  | **01-31 Aug 2017** | **Arrays and its operations ,Advantages and disadvantages of an array** | **Quiz on Types of data structures** |
|  | **01-30 Sept 2017** | **Single Linked List and its operations, Two way linked list its operations and advantages**  | **Quiz on Array****Group Discussion on Array** |
|  | **01-31 Oct 2017** | **Stack and Queues, its operations and Applications** | **Flipped classes on applications of Queue** |
|  | **01-13 Nov 2017** | **Introduction to Trees and Graph, tree traversal and their memory representation, Strings** |  |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | **Operations of Doubly linked list** |
| **Assignment 2** | **Programs in c to apply linear data structures** |
| **Class Test** | **Unit 1,2,3** |

Name of the Teacher: KAVITA KUKMARI Paper: BCA353 Class: BCA Sem -V

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | **AI Concepts and Characteristics, Applications areas of AI** | **Group Discussion on what computer do better than people and vice -versa** |
|  | **01-31 Aug 2017** | **Turing test, Revised Turing Test, History of AI** | **Group Discussion on Turing Test** |
|  | **01-30 Sept 2017** | **Problem representation in AI, Search Processes in AI** | **Class Presentation on State space Representation and Difference between various Search Processes** |
|  | **01-31 Oct 2017** | **Expert System and its components, ES life cycle** | **Flipped classes on ES tools and ES short programs written in LISP** |
|  | **01-13 Nov 2017** | **NLP, Speech Recognition, Introduction to Robotics** | **Group Discussion on types of Robots and their application areas** |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | **Applications areas of AI** |
| **Assignment 2** | **Problems in natural language understanding** |
| **Class Test** | **Unit 1,3** |

Name of the Teacher: KAVITA KUKMARI Paper:II Class: B.Sc( Comp Sc ) Sem -V

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | **Introduction to OOPs, its features and advantages** | **Group Discussion on difference between C and C++** |
|  | **01-31 Aug 2017** | **Static Data members and Member functions** | **Group Discussion on storage classes** |
|  | **01-30 Sept 2017** | **Constructor and Destructors**  | **Class Presentation on types of Constructor and rules applied on Constructors**  |
|  | **01-31 Oct 2017** | **Usage of Friend function and Friend class, Dynamic Memory Allocation in C++,operator overloading** | **Group Discussion on Dynamic allocation of memory in C**  |
|  | **01-13 Nov 2017** | **Passing Parameters to function, Array of Pointer to object, Console I/O** | **Group Discussion on Operator precedence** |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | **Program in C++ to share data among two classes using friend function** |
| **Assignment 2** | **Associativity rules of Operator overloading** |
| **Class Test** | **Unit 1,2** |