Lesson Plan

Name of Faculty : **Ms Varsha Rani, Assistant Professor of CSE**
Discipline : **Computer Science and Engineering**
Semester : **3th(odd)IT-202E**
Subject : **Data Structures & Algorithms**
Lesson Plan Duration : **15 weeks (from January/ February-2018 to April/ May-2018)**
Work Load (Lecture/Practical) per week (in hours): Lectures-03hours, Practical-02 hours

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1st	1	Introduction to Data Structures: Definition of data structures and abstract data types			
	2	Static and Dynamic memory storage			
	3	Arrays,matrix,space matrix			
	4	Types of arrays,operation on arrays			
2nd	5	Sequential Search with example			
	6	Binary Search with example			
	7	Bubble sort			
	8	Straight selection sort			
3rd	9	Insertion sort			
	10	Merge sort			
	11	linked list introduction of linked list			
	12	Types of linked list			
4th	13	Operation on list,application of linked list			
	14	Introduction to stack			
	15	Array implementation of stack			
	16	linked implementation of stack			
5th	17	Application of stack			
	18	Recursion			
	19	Introduction to quick sort			
	20	Introduction to queue			
6th	21	Array implementation of queues			
	22	linked implementation of queues			
	23	Circular queues			
	24	Priority queues			
7th		Minor Test 1st			
8th	25	Double ended queues			
	26	Introduction to trees			
	27	Binary trees and their properties			
	28	Linked representation of binary trees			
9th	29	Static representation of binary trees			
	30	Complete binary trees			
	31	Threaded binary tree			
	32	Different tree Traversal algorithms			
10th	33	Binary search trees and its operations			
	34	Heap sort			
	35	AVL trees			
	36	Balanced multivage search trees			
11th	37	Introduction to graphs			
	38	Linked list implementasions of graphs			
	39	Array representation of graphs			
	40	Graph traversal			
12th	41	BFS & DFS			
	42	Adjaceny matrix			
	43	Adjancy lists			
	44	Path matrix			
13th	45	warshall's Algorithms			
	46	Introduction to hashing			
	47	Hash table & hash function			
	48	Big –Oh- notation			
14th		Minor Test 2nd			
15th	49	Running time: time complexity			
	50	Evaluating time complexity			
	51	BFS & DFS			
	52	Big –Oh –notations best case wrost case average case			

Lesson Plan

Name of Faculty	:	ms varsha rani, Assistant Professor of CSE
Discipline	:	Computer Science and Engineering
Semester	:	3rd(odd)
Subject	:	Data Structures & Algorithms Lab.cse 205e
Lesson Plan Duration	:	15 weeks (from January/ February-2018 to April/ May-2018)

Work Load (Lecture/Practical) per week (in hours): Lectures-04hours, Practical-02 hours

Week	Theory/ Practical (Group-I/ II)		Topic Covered Date and Remarks		
	Practical Day	Topics/ Programs	Date	HOD	Director-Principal
1st	1	Write a program to perform following operations on tables using functions only Addition, Transpose			
2nd	2	Write a program to perform following operations on tables using functions only Subtraction, Multiplication			
3rd	3	Write a function for finding the element in an array using binary search method			
4th	4	Write a c function to implement the insertion operation on singly linked list			
5th	5	Write c function to implement to deletion operation on singly linked list			
6th	6	Write c function to implement an integer stack using array			
7th		Minor test 1st			
8th	7	Write c function to implement integer stack using singly linked list			
9th	8	Write c function to implement an interger queue using array			
10th	9	Write c function to implement an integer circular queue using singly linked list			
11th	10	Write c function to implement binary tree and binary search tree			
12th	11	Write c function to implement sorting technique bubble sort			
13th	12	Write c function to implement sorting technique of quick sort			
14th		Minor test 2nd			
15th	13	Write c function to implement sorting technique of selection sort, merge sort			

Lesson Plan

Name of Faculty   :   **Dr. Sanjay Dahiya, Assistant Professor of CSE**
Discipline   :   **Computer Science and Engineering**
Semester   :   **3rd (Odd)**
Subject   :   **Data Structure & Algorithm (CSE-201- L)**
Lesson Plan Duration   :   **15 weeks (from June-December-2018)**
Work Load (Lecture/Practical) per week (in hours):   **Lectures-04 hours**

Week	Lecture-Day	Topic (Including Assignment/Test)	Date	HOD	Director- Principal
		Theory	**Topic Covered Date and Remarks**		
1st	1	Data Structure: Definition and its types			
	2	Abstract Data Types			
	3	Static and dynamic memory storage			
	4	Query and Solution			
2nd	5	Array and Matrices			
	6	Sparse matrices			
	7	Multi-dimensional arrays			
	8	Operations on arrays: Linear search			
3rd	9	Binary search			
	10	Selection sort			
	11	Bubble sort			
	12	Insertion sort			
4th	13	Merge Sort			
	14	Linked List: Type (singly, circular, header, doubly)			
	15	Linked List: Type (singly, circular, header, doubly)			
	16	Operations on Lists — create, Insert, display			
5th	17	Operations on Lists —Search, delete			
	18	Application of Linked List			
	19	Stacks: Definition, POP and PUSH operation			
	20	Array implementation of stacks			
6th	21	Linked implementation of stacks			
	22	Applications of Stacks: Infix, Prefix expression			
	23	Applications of Stacks: Postfix expression			
	24	Conversion and Evaluation of Expression			
7th		**1st Minor Test**			
8th	25	Recursion			
	26	Quick Sort			
	27	Queues: Definition, Array implementation of queues			
	28	Linked implementation of queues			
9th	29	Circular queues			
	30	Double-ended queues			
	31	Priority Queue			
	32	Query and Solution			
10th	33	Tree : Binary tree and their Properties			
	34	Complete Binary Tree and Threaded Tree			
	35	Linked and static representation of binary trees			
	36	Query and Solution			
11th	37	Different tree traversal algorithms (non-recursive)			
	38	Different tree traversal algorithms (non-recursive)			
	39	Binary Search Tree (create, delete, search, insert, Display)			
	40	Heap Sort and its complexity analysis			
12th	41	AVL Trees			
	42	Balanced multi-way search trees			
	43	Graphs: Definition, Array and linked representation of graphs			
	44	Traversal (BFS and DFS)			
13th	45	Adjacency matrix and adjacency lists, path matrix			
	46	Finding Shortest Path - Warshall's Algorithm			
	47	Hashing, Hash table, Hash functions.			
	48	Running time: Time Complexity			
14th		**2nd Minor Test**			
15th	49	Big-Oh - notation, Best Case, Worst Case, Average Case			
	50	Factors depends on running time			
	51	Evaluating time Complexity			
	52	Query and Solution			

Lesson Plan

Name of Faculty : **Ms Varsha Rani, Assistant Professor of CSE**
Discipline : **Computer Science and Engineering**
Semester : **3th(ODD)IT-202E**
Subject : **Object Oriented Programming Using C++**
Lesson Plan Duration : **15 weeks (from JULY /AUG-2018 to NOV/DEC-2018)**
Work Load (Lecture/Practical) per week (in hours): Lectures-04hours, Practical-02 hours

Week	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
		Theory	**Topic Covered Date and Remarks**		
1st	1	Introduction to C++,C++ Standard Library, Basics of a Typical C++ Environment			
	2	Pre-processors Directives, Illustrative Simple C++ Programs			
	3	Header Files and Namespaces, library files.			
	4	Introduction to Objects and Object Oriented Programming,			
2nd	5	Access Modifiers: Controlling access to a class method			
	6	variable (public, protected, private, package)			
	7	Polymorphism: Overloading,			
	8	Encapsulation (Information Hiding)			
3rd	9	Inheritance,and their types			
	10	Overriding Methods			
	11	Abstract Classes, Reusability, Class's Behaviors			
	12	Classes and Data Abstraction: Introduction, Structure Definitions, Accessing Members of Structures			
4th	13	Class Scope and Accessing Class Members			
	14	Controlling Access Function And Utility Functions			
	15	Class Objects: Constructors, Using Default Arguments With Constructors			
	16	Using Destructors, Classes : Const(Constant) Object And Const Member Functions			
5th	17	Initializing Object as Member of Classes, Friend Function and Friend Classes			
	18	Using This Pointer, Separating Interface from Implementation			
	19	Dynamic Memory Allocation with New and Delete, Static Class Members			
	20	Container Classes And Integrators			
6th	21	Proxy Classes, Function overloading.			
	22	Operator Overloading: Introduction, Fundamentals of Operator Overloading, Restrictions On Operators Overloading			
	23	Operator Functions as Class Members vs. as Friend Functions, Overloading			
	24	<<, >> Overloading Unary Operators, Overloading Binary Operators			
7th		**1st Minor Test**			
8th	25	**Inheritance:** Introduction, Inheritance: Base Classes And Derived Classes			
	26	Protected Members, Public, Protected and Private Inheritance			
	27	Casting Base- Class Pointers to Derived- Class Pointers			
	28	Using Member Functions, Overriding Base –Class Members in a Derived Class			
9th	29	Using Constructors and Destructors in derived Classes			
	30	Implicit Derived –Class Object To Base- Class Object Conversion			
	31	**Virtual Functions and Polymorphism:** Introduction to Virtual Functions, Polymorphism			
	32	Abstract Base Classes And Concrete Classes, Dynamic Binding			
10th	33	New Classes And Virtual Destructors			
	34	**Files and I/O Streams:** Files and Streams, Creating a Sequential Access Creating A Random Access File			
	35	Unformatted I/O (with read and write)			
	36	Reading Data Sequentially from a Random Access File.			
11th	37	File Reading Data From A Sequential Access File, Updating Sequential Access Files, Random Access Files			
	38	Writing Data Randomly To a Random Access File,			
	39	Stream Input/Output Classes and Objects, Stream Output, Stream Input			
	40	Stream Manipulators, Stream Format States, Stream Error States.			
12th	41	**Templates & Exception Handling:** Function Templates			
	42	Overloading Template Functions			
	43	Templates and Friends			
	44	Templates and Static Members.			
13th	45	Class Template, Class Templates and Non-Type Parameters			
	46	Templates and Inheritance			
	47	Stack Unwinding, Exceptions and Inheritance			

	48	Introduction, Basics of C++ Exception Handling: Try Throw, Catch			
14th		**2nd Minor Test**			
15th	49	Throwing an Exception, Catching an Exception Rethrowing an Exception			
	50	Exception specifications, Processing Unexpected Exceptions			
	51	Constructors Exception Handling			
	52	Destructor exception handling			

Lesson Plan

Name of Faculty : **Ms Varsha Rani, Assistant Professor of CSE**
Discipline : **Computer Science and Engineering**
Semester : **3ʳᵈ SEM(odd)**
Subject : **C ++ Programming Lab.cse 205L**
Lesson Plan Duration :**15 weeks (from JULY/AUG-2018 to NOV/DEC-2018)**
Work Load (Lecture/Practical) per week (in hours): Lectures-04hours, Practical-02 hours

Week	Theory/ Practical (Group-I/ II)		Topic Covered Date and Remarks		
	Practical Day	Topics/ Programs	Date	HOD	Director-Principal
1ˢᵗ	1	C++ program print ASCII value of a character and convert lower to upper			
2ⁿᵈ	2	WAP to create class to get and print detail of a student			
3ʳᵈ	3	Raising a number n to a power p is the same as multiplying n by itself p times. Write a function called power ( ) that takes a double value for n and an int value for p, and returns the result as double value. Use a default argument of 2 for p, so that if this argument is omitted, the number will be squared. Write a main ( ) function that gets values from the user to test this function.			
4ᵗʰ	4	o classes DM and DB which store the value of distances. DM stores distances in metres and centimeters and DB in feet and inches. Write a program that can read values for the class objects and add one object of DM with another object of DM function to carry out the addition operation. The object that stores the results maybeobject or DB object, depending on the units in which the results are required.DISPLAY should be in the format of feet and inches or metres and cenitmetres depending on the object on display.			
5ᵗʰ	5	class rational which represents a numerical value by two double values- NUMERATOR & DENOMINATOR. Include the following public member Functions CONSTRUCTOR with no argument destructor with two arguments. reduce( ) that reduces the rational number by eliminating the highest common factor between the numerator and denominator. • Overload + operator to add two rational number. • Overload >> operator to enable input through cin. • Overload << operator to enable output through cout. Write a main ( ) to test all the functions in the class.			
6ᵗʰ	6	A hospital wants to create a database regarding its indoor patients. The information to store include a) Name of the patient b) Date of admission c) Disease d) Date of discharge Structure to store the date (year, month and date as its members). Create a base class to store above information. The member function should include functions to enter information list of all the patients in the database. Create a derived class to store the age of the . List the information about all the to store the age of the patients. List the information about all the pediatric patients (less than twelve years in age).			
7ᵗʰ		**Minor Test 1ˢᵗ**			
8ᵗʰ	7	C++ program to use function as a L-VALUE using reference variable			
9ᵗʰ	8	Write a program to access a function with the help of pointer			
10ᵗʰ	9	Make a class Employee with a name and salary. Make a class Manager inherit from Employee. Add an instance variable, named department, of type string. Supply a method to to String that prints the manager's name, department and salary. Make a class Executive inherit from Manager. Supply a method to String that prints the string "Executive" followed by the information stored in the Manager superclass object. Supply a test program that tests these classes and methods.			
11ᵗʰ	10	Imagine a tollbooth with a class called toll Booth. The two data items are a type unsigned int to hold the total number of cars, and a type double to hold the total amount of money collected. A constructor initializes both these to 0. A member function called payingCar ( ) increments the car total and adds 0.50 to the cash total. Another function, called nopayCar ( ), increments the			

		car total but adds nothing to the cash total. Finally, a member function called displays the two totals.Include a program to test this class. This program should allow the user to push one key to count car, and another to count a non paying car. Pushing the ESC kay should cause the program to print out the total cars and total cash and then exit.			
12th	11	unction called reversit ( ) that reverses a string (an array of char). Use a for loop that swaps the first and last characters, then the second and next to last characters and so on. The string should be passed to reversit ( ) as an argument. a program to exercise reversit ( ). The program should get a string from the user, call ( ), and print out the result. Use an input method that allows embedded blanks. Test the program with Napoleon's famous phrase, "Able was I ere I saw Elba)".			
13th	12	Program to write and read an object in ,from binary file using write ( ) and read ( ) in C++			
14th		Minor Test 2nd			
15th	13	C++ program to implement string in ST			

Lesson Plan

Name of Faculty : **Ms.Sonam, Assistant Professor of CSE**
Discipline : **Computer Science and Engineering**
Semester : **3rd (odd)**
Subject : **skills and Innovations lab (CSE-209 P)**
Lesson Plan Duration : **15 weeks (from July/August-2018 to Nov/Dec-2018)**
Work Load (Practical) per week (in hours): Practical-03 hours

Week	Theory/ Practical (Group-I/ II)		Topic Covered Date and Remarks		
	Practical Day	**Topics/ Programs**	**Date**	**HOD**	**Director-Principal**
1st	1	Basic knowledge of computer			
2nd	2	Understand and identify research topics related to computer science			
3rd	3	Understand the research analysis of issues /problem on topic related to computer science			
4th	4	Understand the technique used for research analysis			
5th	5	Understand the tools used for research analysis			
6th	6	Problem related programs			
7th		**1st Minor Test**			
8th	7	1st viva voce			
9th	8	Understand literature related to a research topics			
10th	9	Communication effectively the research topic threw presentation			
11th	10	Communication effectively the research topic threw brainstorming			
12th	11	Understanding the concept of how to work in group.			
13th	12	Problem n solutions			
14th		**2nd Minor Test**			
15th	13	2nd viva voce			

Lesson Plan

Name of Faculty : Sahil Arora, ASSISTANT PROF(ECE)
Discipline : BTech CSE
Semester : III
Subject : Digital Electronics (ECE-209-L)
Lesson Plan Duration: 15 weeks per week (AUG TO DEC 2018)
Lectures 04 hours

Week	Theory		Actual Covered
	Lecture	**Topic (Including Assignment/Test)**	
1st	1	Digital signal, Error detection and correction codes.	
	2	logic gates: AND, OR, NOT, NAND	
	3	NOR, EX-OR, EX-NOR	
	4	Boolean algebra	
2nd	5	Review of Number systems	
	6	Binary codes: BCD, Excess-3, Gray	
	7	EBCDIC, ASCII	
	8	Error detection and correction codes	
3rd	9	Design using gates	
	10	Karnaugh map	
	11	Problems on K map	
	12	Problems and Solutions on K map	
4th	13	Quine Mcluskey methods of simplification	
	14	Circuit desig using gates, adder,subtractor, comparator	
	15	BCD to seven segmant , code converters	
	16	MUX and DEMUX :use as logic elements	
5th	17	Decoders, Encoder	
	18	Adders / Subtractors	
	19	BCD arithmetic circuits	
	20	Flip Flops : S-R, J-K	
6th	21	T, D ff	
	22	master-slave, edge triggered, flip flop conversion	
	23	shift registers,bidirectional shift registers	
	24	sequence generators	
7th		--------------------------Ist Minor Test--------------------------	
8th	25	Ring Counters	
	26	Johnson Counter	
	27	Design of Synchronous and Asynchronous sequential circuits	
	28	Assignment questions	
9th	29	Finite state Machines-Timing Diagram, Moorey vs Mealy	
	30	FSM design procedure,state diagram	
	31	State transition table,state minimization	
	32	State encoding, next state logic minimization	
10th	33	Implement the design	
	34	Problems and Solutions	
	35	Switching mode operation of p-n junction	
	36	bipolar and MOS. devices	
11th	37	Bipolar logic families:RTL, DTL, DCTL	
	38	HTL, TTL, ECL, MOS	
	39	CMOS logic families	
	40	Tristate logic	
12th	41	Interfacing of CMOS and TTL families.	
	42	Sample and hold circuit	
	43	weighted resistor and R -2 R ladder D/A Converter	
	44	specifications for D/A converters. A/D converters : Quantization, parallel - comparator	
13th	45	successive approximation type	
	46	counting type, dual-slope ADC, specifications of ADCs	
	47	ROM	
	48	PLA, PAL	
14th		--------------------------2nd Minor Test--------------------------	
15th	49	FPGA	
	50	Assignment Evaluation	
	51	CPLDs	
	52	Implementation of Combinational circuit using ROM,PLA,PAL	

Lesson Plan

Name of Faculty : Mr. Pramod Lega, Assistant Professor
Discipline : Management
Semester : 3rd
Subject : Personality Development (PSY-201-L)
Lesson Plan Duration: 15 weeks (from August, 2018 to November, 2018)
Work Load (Lecture/Practical) per week (in hours): **Lectures 03 hours**.

Week	Theory	
	Lecture Day	**Topic (Including Assignment/Test)**
1st	1	Introduction of Self
	2	Meaning and Definitions of Self
	3	Meaning and Definitions of Self-Esteem
2nd	4	Importance of Self-Esteem
	5	Characteristics of individuals with high self-esteem
	6	Characteristics of individuals with low self-esteem
3rd	7	Meaning and Definitions of Self- Confidence
	8	Strategies of building self-confidence
	9	Case Study
4th	10	Problems and Solutions
	11	Meaning and Definitions of Personality
	12	Problems and Solutions
5th	13	Factors affecting Personality
	14	Biological Factors
	15	Psychological Factors
6th	16	Social Factors
	17	Theories of Personality
	18	Type And Trait Theories (Case Study)
7th		--------------------------**Ist Minor Test**--------------------------
8th	19	Freud's Theory of Personality
	20	Allport's Theory of Personality
	21	Assessment- Neo-Big Five Personality Test
9th	22	Thematic Apperception Test (T.A.T)
	23	Word Association Test (Case Study)
	24	Play Technique (Case Study)
10th	25	Dramatic Production Test (Case Study)
	26	Verbal Projection Test (Case Study)
	27	Problems and Solutions
11th	28	Meaning and Definitions of Stress
	29	Causes of Stress and its impact,
	30	Strategies of stress management
12th	31	Case study
	32	Problems and Solutions
	33	Meaning and Definitions of Emotional Intelligence
13th	34	Concept, emotional quotient why Emotional Intelligence matters
	35	Measuring EQ
	36	Developing healthy emotions
14th		--------------------------**2nd Minor Test**--------------------------
15th	37	Management of anger and interpersonal relations.
	38	Case study.
	39	Problems and Solutions

Lesson Plan

Name of Faculty : Dr. Meena Kumari
Discipline : Applied Sciences & Humanities
Semester : 3rd
Subject : Personality Development (PSY-201-L)
Lesson Plan Duration: 15 weeks (August 18 to December 2018)

Work Load (Lecture/Practical) per week (in hours): **Lectures 03 hours.**

Week	Lecture Day	Theory — Topic (Including Assignment/Test)
1st	1	Introduction of Self
	2	Meaning and Definitions of Self
	3	Meaning and Definitions of Self-Esteem
2nd	4	Importance of Self-Esteem
	5	Characteristics of individuals with high self-esteem
	6	Characteristics of individuals with low self-esteem
3rd	7	Meaning and Definitions of Self-Confidence
	8	Strategies of building self-confidence
	9	Case Study
4th	10	Problems and Solutions
	11	Meaning and Definitions of Personality
	12	Problems and Solutions
5th	13	Factors affecting Personality
	14	Biological Factors
	15	Psychological Factors
6th	16	Social Factors
	17	Theories of Personality
	18	Type And Trait Theories (Case Study)
7th		-----------------Ist Minor Test-----------
8th	19	Freud's Theory of Personality
	20	Allport's Theory of Personality
	21	Assessment- Neo-Big Five Personality Test
9th	22	Thematic Apperception Test (T.A.T)
	23	Word Association Test (Case Study)
	24	Play Technique (Case Study)
10th	25	Dramatic Production Test (Case Study)
	26	Verbal Projection Test (Case Study)
	27	Problems and Solutions
11th	28	Meaning and Definitions of Stress
	29	Causes of Stress and its impact.
	30	Strategies of stress management
12th	31	Case study
	32	Problems and Solutions
13th	33	Meaning and Definitions of Emotional Intelligence
	34	Concept, emotional quotient why Emotional Intelligence matters
	35	Measuring EQ
14th	36	Developing healthy emotions
		-----------------2nd Minor Test-----------
15th	37	Management of anger and interpersonal relations.
	38	Case study.
	39	Problems and Solutions

Lesson Plan

Name of Faculty : Neetu Bala
Discipline : Mathematics
Semester : III
Subject : Discrete Structures (CSE-203 E)
Lesson Plan Duration: 15 weeks
Work Load (Lecture/Practical) per week (in hours): **Lectures 04 hours**.

Week	Lecture Day	Topic (Including Assignment/Test)	Actual Covered
		Theory	
1st	1	Introduction to set theory, Set operations,	
	2	Algebra of sets, Duality, Finite and Infinite sets,	
	3	Classes of sets, Power Sets, Multi sets,	
	4	Problems and solutions	
2nd	5	Cartesian Product	
	6	Representation of relations ,Types of relation,	
	7	Equivalence relations and partitions	
	8	Problems and Solutions	
3rd	9	Partial ordering relations and lattices Function and its types	
	10	Composition of function and relations	
	11	Cardinality and inverse relations	
	12	Problems and Solutions	
4th	13	Basic operations: AND($\wedge$), OR($\vee$), NOT($\sim$).	
	14	Truth value of a compound statement	
	15	propositions, tautologies, contradictions.	
	16	Problems and Solutions	
5th	17	Permutations with and without repetition	
	18	Combination	
	19	Polynomials and their evaluation	
	20	Problems and Solutions	
6th	21	Sequences	
	22	Introduction to AP, GP and AG series, partial fractions,	
	23	partial fractions	
	24	Problems and Solutions	
7th		--------------------------Ist Minor Test--------------------------	
8th	25	linear recurrence relation with constant coefficients	
	26	Homogeneous solutions, Particular solutions	
	27	Total solution of a recurrence relation using generating functions.	
	28	Problems and Solutions	
9th	29	Definition and examples of a monoid,	
	30	Semigroup	
	31	Groups and rings	
	32	Problems and Solutions	
10th	33	Homomorphism,	
	34	Isomorphism and Automorphism	
	35	Subgroups and Normal subgroups	
	36	Problems and Solutions	
11th	37	Cyclic groups	
	38	Integral domain and fields	
	39	Cosets	
	40	Problems and Solutions	
12th	41	Lagrange"s theorem	
	42	Introduction to graphs	
	43	Directed and Undirected graphs	
	44	Problems and Solutions	
13th	45	Homomorphic and Isomorphic graphs,	
	46	Subgraphs, Cut points and Bridges	
	47	Multigraph and Weighted graph, Paths and circuits	
	48	Shortest path in weighted graphs, Eurelian path and circuits	
14th		--------------------------2nd Minor Test--------------------------	
15th	49	Hamilton paths and circuits,	
	50	Planar graphs, Euler"s formula	
	51	Trees, Spanning trees, Binary trees and its traversals	
	52	Problems and Solutions	

Lesson Plan

Name of Faculty : Mr. Pramod Lega, Assistant Professor
Discipline : Management
Semester : 3rd
Subject : Fundamentals of Management
Lesson Plan Duration: 15 weeks (from August, 2018 to November, 2018)
Work Load (Lecture/Practical) per week (in hours): **Lectures 03 hours**.

Week	Theory	
	Lecture Day	Topic (Including Assignment/Test)
1st	1	Definitions of Management
	2	Characteristics of Management
	3	Significance, Practical Implications of Management
2nd	4	Management- Art, Science and Profession
	5	Development of Management Thoughts
	6	Classical Theory
3rd	7	Neo- Classical Approach
	8	Contingency Approach
	9	Principles of Management (Henri Fayol)
4th	10	Scientific Management (F.W.Taylor)
	11	Human Relation Movement (Elton Mayo)
	12	Managerial Functions of Management
5th	13	Introduction of Human Resource Management
	14	Nature and Objectives of Human Resource Management
	15	Functions of Human Resource Management
6th	16	Meaning and Definitions of Human resource planning
	17	Recruitment, Selection
	18	Training and Development
7th		---------------------------1st **Minor Test**--------------------------
8th	19	Meaning and Definitions of Marketing Management
	20	Functions of Marketing Management
	21	Objectives and functions of Marketing
9th	22	Marketing Mix
	23	Process of Marketing Research
	24	Meaning and Definitions of Advertising
10th	25	Functions and Significance of Advertising
	26	Media of Advertisement
	27	Criticism of Advertisement
11th	28	Meaning and Definitions of Consumer Behaviour
	29	Meaning and Definitions of Production Management
	30	Functions of Production Management
12th	31	Objectives and functions of Production Management
	32	Meaning and Definitions of Production Planning and Control
	33	Steps/Elements of Production Planning and Control
13th	34	Objectives and functions of Material management
	35	Inventory Control
	36	Production Layout
14th		--------------------------2nd **Minor Test**--------------------------
15th	37	Meaning and Definitions of Financial Management
	38	Capital Structure and various Sources of Finance, Working Capital, Short term and long term finances
	39	Capital Budgeting

Lesson Plan

Name of Faculty : Gaurav Singh Sisodia
Discipline : Mathematics
Semester : III
Subject : Mathematics –III (MAT-201-L)
Lesson Plan Duration: 15 weeks (from August, 2018 to November, 2018)
Work Load (Lecture/Practical) per week (in hours): **Lectures 04 hours**.

Week	Theory	
	Lecture Day	**Topic (Including Assignment/Test)**
1st	1	Euler's Formulae
	2	Dirichlet's Condition for Fourier expansions
	3	Problems and Solutions
	4	Fourier expansion of functions having point of discontinuity
2nd	5	Change of interval
	6	Odd and even functions
	7	Problems and Solutions
	8	Fourier expansion of square wave
3rd	9	Rectangular wave, saw-toothed wave
	10	Half and full rectified wave
	11	Half range sine and cosine series
	12	Problems and Solutions
4th	13	Fourier integrals Theorem
	14	Fourier transforms
	15	Fourier sine & cosine transforms
	16	Properties of Fourier transforms,
5th	17	Convolution theorem
	18	Shifting theorem (both on time and frequency axes)
	19	Fourier transforms of derivatives
	20	Fourier transforms of integrals
6th	21	Fourier transform of Dirac delta function
	22	Problems and Solutions
	23	Functions of complex variable, limit & continuity of a function
	24	Exponential , Trigonometric, Hyperbolic &Logarithmic functions
7th		--------------------------**Ist Minor Test**--------------------------
8th	25	Differentiability & Analyticity
	26	C-R equations: necessary & sufficient condition for function to be analytic
	27	Polar form of C-R equations, Harmonic functions
	28	Integration of complex functions
9th	29	Problems and Solutions
	30	Cauchy Theorem, Cauchy- Integral formula.
	31	Power series, radius and circle of convergence
	32	Taylor's Maclaurin's and Laurent's series
10th	33	Zeroes and singularities of complex functions
	34	Residues. Evaluation of real integrals using residues (around unit circle)
	35	Residues. Evaluation of real integrals using residues (around semi circle)
	36	Problems and Solutions
11th	37	Introduction of Probability Distributions and Hypothesis Testing
	38	Expected value of a random variable
	39	Baye's Theorem
	40	Discrete and continuous probability distribution.
12th	41	Testing of a hypothesis, tests of significance for large samples
	42	Properties and application of Binomial distribution.
	43	Student's t-distribution (applications only)
	44	Chi-square test of goodness of fit
13th	45	Problems and Solutions
	46	Linear Programming problems formulation
	47	Solution of LPP using Graphical Method
	48	Canonical and Standard form of LPP
14th		--------------------------**2nd Minor Test**--------------------------
15th	49	Linear Programming problems formulation
	50	Solution of LPP using Simplex Method
	51	Solution of LPP for degeneracy problem
	52	Solution of LPP using Dual Simplex Method