MERI College of Engineering & Technology
(MERI-CET)

Session: 2020-2021
Department: CSE
Subject code: OEC-ECE317G

Course- ECE
Semester: 5th
Faculty Name : Ms. PREETI

lesson plan

Name of the Faculty : Ms. Preeti (C++)

Discipline : ECE

Semester : 5th

Subject : C++ (OEC-ECE317G)

Lesson Plan Duration : 14 Weeks (from Aug., 2020 to Nov., 2020)

** Work Load (Lecture/Practical) per week (in hours): Lectures-02.

Week	Theory	
	Lecture Day	**Topic (including assignment/test)**
1st	1st	**Object-Oriented Programming Concepts**: Introduction, comparison between procedural programming paradigm and object-oriented programming paradigm,
	2nd	basic concepts of object oriented programming, concepts of an object and a class
2nd	3th	data abstraction, encapsulation, inheritance, polymorphism.
	4th	**Basic Concepts of C++:** Structure of C++ Program, regular expressions
3rd	6th	Basic Data Types, Expressions and Control Structures
	7th	**Functions in C++:** Call by Value, Call by Reference.
4th	8th	Recursion, Function Overloading. **Classes and Objects:** Specifying a class
	9th	creating class objects, accessing class members,
5th	10th	access specifiers, static data members.
	11th	use of const keyword, friends of a class,Assignment-1
6th	12th	empty classes, nested classes, local classes

	13st	abstract classes, container classes
7th	14th	**Constructors and Destructors**: Need for constructors and destructors,
	15th	copy constructor, dynamic constructors, destructors .
8th	16th	**Inheritance**: Introduction, defining derived classes,forms of inheritance,
	17th	virtual base classes. Assignment-2
9th	18nd	**Operator Overloading and Type Conversion:** Overloading operators,rules for overloading operators,
	19rd	type conversion - basic type to class type, class type to basic type. class type to another class type
10th	20th	Assignment-3, **Virtual functions & Polymorphism:**
	21th	Concept of binding, early binding and late binding, virtual functions,
11th	22th	pure virtual functions, abstract classes
	23nd	virtual destructors.
12th	24th	**Exception Handling:** Review of traditional error handling,
	25th	basics of exception handling, exception handling mechanism,
13th	26th	throwing mechanism, catching mechanism,
	27th	rethrowing an exception, specifying exceptions.
14th	28nd	Revision of syllabus
	29rd	Revision of syllabus