

Modern Education Society's Wadia College of Engineering, Pune

**210256: DATA STRUCTURES and ALGORITHM LABORATORY
(2019 COURSE)**

NAME OF STUDENT:	CLASS:
SEMESTER/YEAR:	ROLL NO:
DATE OF PERFORMANCE:	DATE OF SUBMISSION:
EXAMINED BY:	EXPERIMENT NO: A4

TITLE: PERFORM VARIOUS OPERATIONS ON SET

AIM/PROBLEM STATEMENT: To create ADT that implements the "set" concept.

- a. Add (new Element) -Place a value into the set
- b. Remove (element) Remove the value
- c. Contains (element) Return true if element is in collection
- d. Size () Return number of values in collection
Iterator () Return an iterator used to loop over collection
- e. Intersection of two sets
- f. Union of two sets
- g. Difference between two sets
- h. Subset

OBJECTIVES:

1. To understand structure of SET.
2. To understand how Create, Display and perform various operations on set.

OUTCOMES:

1. Understand the ADT/libraries to implement Set operations.
2. Analyze the algorithm design techniques for set concept.

PRE-REQUISITES:

1. Knowledge of python programming.
2. Knowledge of STL, set operations.

THEORY: Expected by students

QUESTIONS:

1. Define ADT of SET?
2. Explain iterator in C++ STL?