



University of Engineering and Management (UEM), Kolkata

Department of Computer Applications

Stream: MCA

Session: 2023-2025

**Subject Name: Advanced Data Structures with C
Laboratory**

Subject Code: MCACC294

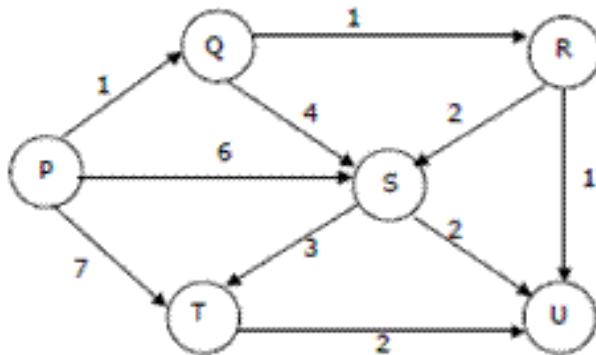
Class taken by:

Kaustuv Bhattacharjee (KBH)

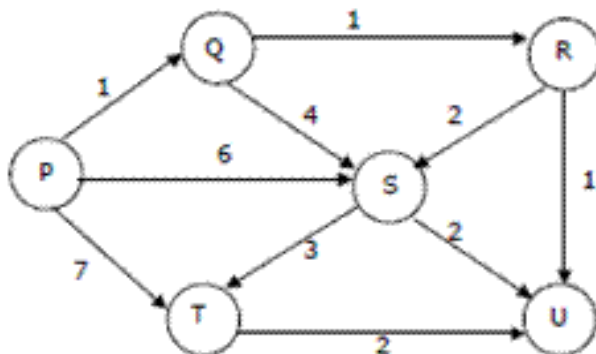
Poulami Ghosh (PGH)

**Topic: To implement Data Structure Graph and
relevant properties**

1. Write a C program to store the following Graph using Adjacency Matrix & display that.



2. Write a C program to store the following Graph using Adjacency List & display that.



3. Write a C program to count number of vertices and edges present in a graph.

4. Write a C program to detect a cycle in a graph.
5. Write a C program to identify number of odd degree vertices and number of even degree vertices in a graph.
6. Write a C program to check whether a given graph is complete or not.