

## **Cpt-140 Database Concepts**

### **Week 3: The Entity-Relational Model 1 (ER1)**

#### **Learning Objectives.**

In this topic we look at Entity-Relationship modelling (or ER Diagram). This step formalises the information to be recorded in a database.

- ☐ Know what an Entity Set is and how it is recorded in an ER diagram.
- ☐ Know what an Relationship Set is and how it is recorded in an ER diagram.
- ☐ Be aware if the constraints that may apply to relationships between entities.
- ☐ Know how to record constraints in the form of Multiplicities.
- ☐ Understand what is meant by a Role and how to record it in an ER diagram.
- ☐ Know when to record an attribute with a relationship.
- ☐ Know two methods of representing attributes that are associated with relationships.