



## SCHOOL OF BUSINESS AND INFORMATION TECHNOLOGY

### Department of Business and Economics

---

### PM123/113 Introduction to project management

You have been hired to manage a project to set up a small training center in your community. The project consists of several activities, each with defined durations and dependencies.

Activity	Description	Duration (days)	Predecessor(s)
A	Conduct needs assessment	2	–
B	Identify training space	1	A
C	Develop training materials	4	A
D	Procure furniture	3	B
E	Set up training equipment	2	B, C
F	Advertise training	2	C
G	Register participants	1	F
H	Launch training session	1	D, E, G

Prepare a report with the following sections:

#### 1. Activity List and Network Table

- Create an Activity List Table (like above)
- Add ES (Early Start), EF (Early Finish), LS (Late Start), LF (Late Finish), and Slack to each activity
- Use forward and backward pass methods to calculate

## **2. Network Diagram**

- a. Draw a network diagram (AOA or AON preferred)
- b. Clearly show nodes, arrows, dependencies, and durations
- c. Highlight the critical path on your diagram

## **3. Critical Path Analysis**

- a. Identify all possible paths
- b. Calculate the total duration of each
- c. Highlight the longest path (Critical Path)
- d. Explain what it means in terms of project duration and delays

## **4. Interpretation**

- a. What is the minimum time to complete the project?
- b. Which activities have float/slack?
- c. If activity E is delayed by 2 days, what happens to the project?

**Due date 29th-08-2025.**