# GEPM 375

# Project Planning and Construction Management

## What you have learned  in the last class

- Cost breakdown structure (CBS)
- Organization breakdown structure (OBS)
- Responsibility matrix.

## What we are going to discuss today?

- **Project and Important Aspects of a Project.**
- Basic things for completion of project.
- **Project in country perspective**.
- **Project Management**
- **Tips for effective & successful project management**
- **Efficient Project management**

## What is a project?

- A project is composed of **jobs, activities, functions or tasks** that are related to other/others in some manner and all of those **should be accomplished** in order to complete the project.

## What are the important aspects of projects?

**Every project must have:**

- One **specific purpose**.
- **Start** at specific **moment /time**.
- **Finishes** when its **objective has been fulfilled at specific time.**

**Basic Things required to complete a Project**:

- **Material resources -** physical items needed to complete a project.

- **Manpower/human resources -** people who are required to complete a project, including their skills, experience, and availability.

**Availability, quality** and **use** of **human resources** is **a single determinant factor** in accomplishing project **activity.**

- For both**,** **technical know-how** is very important**.**

# Project in Country Perspective - General:

- Projects can play a **significant role** in a country's **economic**, **social**, and **infrastructural** development.

- In developing countries, projects are considered the **basic building blocks** of development.

- Many countries those are **rich in material resources** but **poor in terms of level of production/plan** and vis-a-vis or **none**.

Example: **KSA, Japan and Bangladesh**









**Following are the ways that projects can impact on country's Development:**

- **Economic growth**

**Projects can generate employment opportunities** and **foster income generation,** which can contribute to **economic growth**.

- **Development**

**Projects are considered** the **"cutting edge" of development**. Without successful project **identification**, **preparation**, and **implementation, development plans may not be realized.**

**Infrastructure**

- **Projects can contribute to a country's infrastructure**. Infrastructure projects in development or execution **brings overall development** of the country.

# Project in Country Perspective - Bangladesh:

**For Bangladesh**

- **Scarcity** of **material resources**.
- **Man power resources** are **not skilled**.
- **Sociology** has not kept pace with **technology**

**Sociology** is the study of **social life**, **social change**, and the **social causes** and **consequences of human behavior**.

**Technology is application** of **scientific knowledge** for **practical purposes.**

- Bangladesh is **not in a position to utilize the technological advancement fully and efficiently** unless we are able **to advance in social sphere.**

**Here comes the rules of Management in project in Bangladesh.**

• While **technology deals with the material things**, **management deals** with **both material** things as well **as human beings**.

• **Management increases the productivity through technical innovation** taking into account **human factors** in these advances.

**Each project has three requirements:**

- Project should be **completed** with **minimum elapse of time**.
- Project should **use** **available manpower and other resources** as **sparingly as possible without delay**.
- Project should be **completed** with a minimum **capital investment** without delay.

## What is Project management?

- **Application** of **knowledge, skills, tools** and **techniques** to **project activities** to meet **project requirement**.

- Differences between **project management** and **just 'management'** is that project management has the **final deliverable** and a **finite time span**, unlike management which is an **ongoing process**.

**Key aspects of project management include:**

- **Defining** project **scope**
- Identifying **deliverables**
- Managing **risks**
- Effective **communication** across teams

**Project Management Approaches**

Project managers often rely on one of following three **primary approaches**.

**Predictive Project Management (Waterfall)**

- Best for when project and product requirements are **well-defined and stable at the beginning.**

- **Emphasizes detailed planning and execution based on initial requirements.**

**Adaptive Project Management (Agile)**

- Ideal for projects where requirements are subject to **high level of uncertainty and volatility** and are **likely to change throughout** a project.

- Uses an **iterative and incremental approach**, allowing more flexibility and adaptation.

## Hybrid Project Management (Hybrid)

- **Combines aspects of both** predictive and adaptive approaches.
- Ideal for projects with **varying degrees of certainty and flexibility**.

## Core Components of project management

- **Define reasons** of undertaking project.
- **Capturing requirements** ie. quality, resources, time etc.
- **Justify investment**
- **Secure corporate's agreement funding**
- **Leading and monitoring of project** by project team.

# Tips for effective & successful project management

**Foster clear and effective communication.**

•PMI, in professional Report 2023 **reveals a range of "power skills"** for project management, as agreed by project managers.

•Top of the list? **Communication. 68%** of survey respondents say that communication is critical to achieving organizational objectives.

**Set clear goals.**

•A great **project manager starts by setting goals.**

•Clear goals keep your **team focused and aligned**.

**Create a schedule**

•A **thoughtfully crafted schedule** helps a project to run more smoothly.

•Guides your team to complete project tasks **on time**, while managing stakeholder expectations, too.

## Use the right tools to monitor progress

- Easier for project team to operate efficiently with the right project **management software**.
- Nothing **slips through the cracks** because everyone can see what needs to be done.

## Assemble a multi-skilled team

- A project is only as good as the people who work on it.
- You need the **right mix of personalities and skills** to aid productivity and minimize friction.

## Motivate your project Team Members

- Skilled project managers know there are times when **Gantt charts, and WBS etc.** aren't enough to get your team over the finish line.
- These things definitely help, but the best teams have **something else in their favor - motivation.**

## Identify and plan for risks

- Risk management is a crucial aspect of project management.
- **Unidentified risks can derail a project**.
- Unexpected problems that **impact budgets, deadlines, and deliverables**.

## Identify and interact with key stakeholders

- Stakeholders are the people **who have a vested interest** in your project and those who are **affected by project outcomes**.
- Some will be **directly involved** in the project, some will **influence decisions**, and some just need to be **kept in the loop**.

## Be a leading example

- As a project manager, you need to lead by example.

# Tips for Effective and Successful Project Management -Summary

- **Communication -**effective.
- **Goals – set Cleary**
- **Schedule - create**
- **Monitor Progress – nothing slips**
- **Team – multi-skilled**
- **Motivate –team members**
- **Risks – identify and plan**
- **Stakeholders – identify and interact**
- **Leading – with example**

**Best project leaders are: (ETT PA)**

**Ethical: Treat** all team members fairly and **communicate** transparently and honestly at all times.

**A Team player: ** Take **responsibility** for their own mistakes and **share** credit with the whole team.

**True to their word**: **Deliver on the promises** and meet deadlines.

**Proactive: ** Seek to **resolve challenges** and **conflicts** as they arise.

**Ask questions**

- Some leaders like to behave as if **they have all the answers**.

- But the best **project leaders ask the important questions**.

## Why Efficient Project Management is important?

- **32%** of projects **fail**, due to **poor management**.
- **68%** of projects **fail to meet dead lines**, **budgets** and **quality targets due to poor project management**.
- **97%** of **business believe that effective project management** is **essential** for success.
- 80% of **high performance projects** are led by a **project manager with qualifications.**
- On average, a **large IT project** runs **45% over budgets**.

# WHY EFFICIENT PROJECT MANAGEMENT IS IMPORTANT:



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Thank You