PROJECT MANAGEMENT AND PROCUREMENT

Subject Aim:
This subject is intended to:
1. Extend students’ understanding of management principles and develop the knowledge of project management and procurement in the construction industry.

Learning Outcomes:
Students will demonstrate their ability to:-

1. Apply knowledge of quality, safety and environmental management for construction projects.
2. Use planning techniques.
3. Negotiate and resolve conflicts between management and employees.
4. Communicate with others in a clear and articulate manner.
5. Present ideas and arguments verbally in formal presentations, seminars, and role play.
6. Work with others and take responsibility for an agreed area of a shared activity.
7. Identify and propose solutions to problems.
8. Identify the different forms of procurement and assess their impacts on the success of a project.
9. Describe the principles underlying the choice of appropriate procurement systems.
10. Apply and compare alternative procurement systems for all types of construction work.

Brief Syllabus Content:

Quality, Safety and Environmental Management
Quality assurance system, safety management system and environmental management.

Human Resources Management
Recruitment, selection and engagement of personnel in construction organizations, and industrial relations.

Planning and Programming Techniques
Planning and programming techniques including bar chart, initial path analysis and line of balance.

Construction Procurement
- The nature of building process, models of the process.
- Categorization of procurement systems.
- Alternative procurement systems such as traditional sequential, traditional accelerated, competitive design and build, enhanced design and build, novated design and build, management contracting and construction management, guaranteed maximum price and target cost contracting, and public private partnership.
- Choice of appropriate procurement methods, allocation of risks and liabilities of the major parties to the arrangement.
- Construction partnering and its impact on procurement.
- Subcontracting management in construction.

Teaching activities: Lecture (LT)/Tutorial (TU)/Seminar (SM)/Drawing (DW)/Laboratory or Practical (LB)/Studio (ST)/Workshop (WS)/Project (PJ)/Field Study (FS)/Guided Study (GS)/Visit (VS)
**Learning and Teaching Approach:**

Lectures will be used to introduce systems and techniques whilst the small group work will be used for the application of management skills through role-play and seminar presentation.

**Assessment strategy (assessment of student performance resulting from learning tasks):**

Examination and coursework will constitute 60% and 40% of the subject respectively. The coursework assessment shall be based on role-play, seminar presentation, seminar discussion and assignments.

**Reading List:**

**Recommended:**

**Project Management**


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