CONSTRUCTION PROJECT MANAGEMENT

COURSE AIMS

The aim of this course is to enable students to gain knowledge and understanding of the various project management techniques with specific reference to construction projects and to demonstrate their application to these projects.

COURSE OUTCOMES

A student who completes this course successfully should be able to:

- Prepare project schedules, resource sheets and cash flow for the management and control of construction projects;
- Develop risk management plan and select appropriate procurement strategies to cater for the risk policy of the organisation;
- Make appropriate decisions based on the client value system through various value management techniques;
- Develop contract management plan for various procurement methods;
- Prepare project interface management plan and inculcate collaborative working practices in the organisation;
- Demonstrate knowledge of the IT tools such as preparation of project schedule, update and preparation of progress report etc.;
- Demonstrate the ability to work in a team.
COURSE CONTENTS

- The roles and duties of project management in construction;
- The life cycle of the project, inception, feasibility, preconstruction, construction and completion;
- Team building and team coordination;
- Communication throughout the stages;
- Advanced concepts of project planning; scope, time and cost, construction planning tools;
- Procurement; traditional, design and build, construction management, public private partnerships, other innovative procurement systems;
- Quality management, planning for quality, quality management tools, ISO9000;
- Communication (Communication modules, communication media in construction);
- Risk Management (process, assessment, identification, analysis and treatment, tools of risk analysis);
- Lean production concepts; constructability, just in time, value engineering and management, benchmarking.