

TWO YEAR POST GRADUATE PROGRAMME IN ENGINEERING PROJECT MANAGEMENT

Introduction

Projects are undertaken in public and private sectors to fulfil the economic needs of the industry and society. This offers immense potential for augmenting the project business all over the world. Management of large-scale engineering projects is a vital key of successful project delivery in a variety of sectors. Achieving the engineering excellence and innovations in the field of infrastructure, industrial, financial and service sector requires the skills and sound knowledge of theory and practice of project engineering and management.

The programme focus is on the large and complex engineering projects, which require a specialised human resource. The competent project engineers and managers are expected to manage and lead the project successfully. The programme employs a multidisciplinary approach comprising project management and systems engineering so that budding project managers are ready to work in a variety of sectors of project-based industry. The industries such as steel, oil and gas, petrochemical, power employ these project ready professionals in Engineering, Procurement, Construction (EPC), Engineering and Construction (E&C) and consulting organisations. The Two Year Post Graduate Programme in EPM addresses the project engineering needs of the various sectors of the industry. The graduate engineers from mechanical, electrical, civil, chemical and other engineering streams joining this programme gain a multidisciplinary exposure to the functioning of modern day projects.

The project engineering and management course provides a bright career opportunity to fresh and experienced engineering graduates to excel as project engineering and management professional in the industry. The two year Post Graduate Programme in EPM is a unique course and hardly any other institute of repute offers this course in India. The curriculum has been reviewed and updated from time to time to incorporate the latest advances in Construction, Real Estate, Infrastructure and Project (CRIP) industry and build competencies in diversified areas.

Objectives

The aim of EPM is to transform graduate engineers into dynamic and knowledgeable project managers with the abilities to manage large engineering projects. The curriculum enables them to lead functions in project based organisations. The key objectives of EPM are:

- To impart sound knowledge of theory and practice of project management.
- To obtain proficiency in managing engineering and construction projects in different sectors.

- Develop students' skills in financial, marketing and human resource aspects in projects.
- Provide key techniques to manage and lead projects emphasising various aspects of project management e.g. planning, quality, time, costs, risk management, software and information technology.

Programme Highlights

This programme builds upon the concepts and practices of project engineering and management and combines subject knowledge with project practices.

The first-year curriculum apart from the specific domain related courses includes various general management courses to improve students' understanding of key aspects in business management. During the second year, specialised areas of project management are introduced to develop in-depth knowledge of project management. This knowledge enhancement process is supplemented by exposure to elective subjects in the areas of oil and gas, process industry, building information modeling, valuation, piping engineering, ports, airports, power plant engineering, telecom and many other areas.

Practical experience is also gained by the students through site visits and summer training. Project work under the supervision of guide, develops skills in scientific analysis of problems and report writing. Computer application skills clubbed with knowledge of quantitative methods create an analytical edge for managerial decision making so vital for managing complex construction projects. The students are trained on a suite of software required for project management and analysis.

Duration and Organisation

The programme duration is of two years. It is organised into 4 semesters with suitable breaks. Semesters are devoted to classroom learning, acquiring hands-on experience in computer practice workshop, managerial skills workshop, construction practice workshop, estimation and tendering workshop, basic competency assessment and upgradation, site visits and learning research techniques and presentation skills. Summer internship is scheduled in between second and third semester and electives are introduced from the 3rd semester.

Eligibility

Regular bachelor's degree in Engineering in any discipline with minimum 50% aggregate marks from a recognised Institution/University.