PROJECT MANAGEMENT : PLANNING, EXECUTION, EVALUATION AND CONTROL

PROF. SANJIB CHOWDHURY
Department of Economics and Strategy
IIT Kharagpur

PRE-REQUISITES : Must be a graduate in management, engineering,science, commerce, or equivalent degree

INTENDED AUDIENCE : Management and Engineering students (MBA, BE/ B.Tech, ME/ M.Tech),academics, practicing managers and professionals at various levels;Commerce, Cost and Chartered Accountancy, and related disciplines.

INDUSTRY SUPPORT : All organizations be it Government or non- Government, profit or non-profit, business or charity, manufacturing or service, utility or IT, military and others need Project Management for planning, financing, implementation, evaluation, and control of projects to accomplish their long- term goals and objectives of their organizations.

COURSE OUTLINE :

Projects are the modus operandi of implementing organizational strategy and achieving strategic goals and objectives. Its importance is well-acknowledged and pervasive in the business world such as construction, engineering, mining, hi-tech, electronics, logistics, defense forces, product development, R&D, and so on. Project management has developed to the point where it is a professional discipline having its own body of knowledge and skills. In order to achieve business excellence, it is necessary to develop expertise in project planning, executing, evaluating, and managing projects. The course would help the academics as well as practicing managers and professionals to learn modern project management tools and techniques, scheduling of activities, resources and cost; and enhance their skills in expediting projects by prudently crashing certain activities. It would also provide them a holistic view of project management covering among others project risk and quality management, procurement and contract management, communication management, developing leadership skills and managing PM team, project performance evaluation, project audit and closure. The course would help the participants to apply Project Management knowledge in real life situation.

ABOUT INSTRUCTOR :

Prof. Sanjib Chowdhury is a Visiting Professor (full-time) at the Indian Institute of Technology Kharagpur, specializing in Strategic Management, and Operations Management. He brings an impressive 41 years of professional experience, including 34 years in the oil and gas industry and 7 years in academia. His industry experience includes two major oil companies in India and Kuwait in the areas of Strategic and Corporate Planning, Business Performance Improvement, Operations and Process Optimization, Project Management, and HR.He is the recipient of "Kuwait Gulf Oil Company's Ideal Employee Award", "ONGC Chairman’s Award", "ONGC Director’s Award" to mention a few, and has held several responsible positions exhibiting his leadership and technical expertise.

Based on his work experience, he has solely authored a book titled "Optimization and Business Improvement Studies in Upstream Oil and Gas Industry", published by John Wiley & Sons Inc., NJ, USA which reflects his deep understanding and knowledge of the industry and is a valuable resource for professionals and academia.Dr. Chowdhury received B.Tech. (Hons.), M.Tech., and Ph.D. in Industrial Engineering and Management all from IIT Kharagpur. He has also published several technical papers in esteemed journals, further contributing to his field.

COURSE PLAN :

Week 1: Introduction to Project Management, and Project Life Cycle Management; Organization Strategy and Project Selection.

Week 2: Project Management Organization Structure and Organization Culture; Defining Project: Definition, Activities, Work Breakdown Structure etc.

Week 3: Project Time and Cost Estimation; Developing Project Plan: Network Analysis using PERT/ CPM Techniques.

Week 4: Project Risk Management - Identification, Quantification, and Mitigation of Risks; Risk Assessment of Capital Projects.

Week 5: Resource and Cost Management: Resource Levelling, Scheduling, and Allocation.

Week 6: Reducing Project duration : Activity Crashing; Project Evaluation, Progress and Performance Measurement.

Week 7: Project Outsourcing, Negotiation, and Managing inter-organizational Relations.

Week 8: Contract Management; Project Closure; and Project Oversight.