CERTIFICATE PROGRAMME

IN

PROJECT MANAGEMENT: THEORY AND PRACTICE

Start Date: 25th May 2025

Duration: 6 Months (60 Hours)

Live Online Sessions

Programme offered by Continuing Education Programme (CEP), IIT Delhi

Overview

As a distinguished educational institution in India, the Indian Institute of Technology Delhi (IIT Delhi) proudly presents a transformative opportunity to master the intricate art and science of project management. Our comprehensive Certificate Programme in Project Management: Theory and Practice, offered through the Continuing Education Programme (CEP), is meticulously crafted to empower professionals like you with the essential skills, profound knowledge, and powerful tools required to excel in the ever-evolving domain of project management.

Programme Highlights

- **Empowerment through Education:** This programme is designed to provide professionals, from seasoned project managers to enthusiastic newcomers, with a remarkable chance to acquire a profound understanding of project management's fundamental principles and advanced strategies.
- **Experienced Excellence:** With a legacy of academic excellence, IIT Delhi brings together an esteemed group of academics, industry experts, and seasoned project management practitioners to lead this programme. Learn from those who have navigated the complexities of projects in diverse fields.
- **Comprehensive Curriculum:** Delve into an all-encompassing curriculum that traverses the project management landscape. From initiation to completion, discover modules dedicated to project planning, scheduling, monitoring and control, risk management, resource optimization, communication strategies, quality and safety management, and exposure to leading project management software.
- **Elevated Expertise:** Whether you are seeking to amplify your proficiency or initiate your journey into project management, this programme is tailor-made for you. Gain a rock-solid foundation and advanced insights that will bolster your ability to lead and execute successful projects.

Why Project Management Matters

In the evolving global economy, the demand for project professionals is set to hit 25 million by 2030. To meet this need, 2.3 million individuals must join Project Management and Organizational Excellence annually. It aligns projects with organizational goals, optimizes resources, manages risks, ensures quality, and adapts to change. This strategic discipline enhances efficiency, effectiveness, and stakeholder satisfaction, ultimately leading to triumph. Project management transforms chaos into structured progress, empowers innovation, and navigates complexities. It bridges vision and execution, propelling organizations towards success. With a dynamic global landscape, mastering project management isn't just an advantage; it's a necessity for a prosperous future.

Course Outcomes

- **Master the Project Journey:** Proficiently navigate the trajectory of project management, spanning from defining project scope to successful closure.
- **Enhance Business Profits:** Harness project management strategies to amplify profits and establish an enduring competitive edge for your enterprise.
- **Implement Global Frameworks:** Effectively employ internationally recognized project management frameworks to solve real-world challenges.
- **Execute Efficiently:** Acquire skills to employ risk analysis techniques, and adeptly monitor projects to meet deadlines and budget targets.
- **Apply Strategic Techniques:** Gain insights into Six Sigma, Quality Management, and Safety Management, and adeptly adapt these methodologies within your organizational context.

Programme Content

1.	Project Management- Challenges and Rewards
2.	Project appraisal – Payback period, NPV, RoR, Incremental Analysis, Concept of project life cycle
3.	Project scope determination, Cost estimation in projects - client and contractor's perspective, site investigation, contract conditions, bidding strategy
4.	Project planning and scheduling- Work Breakdown Structure, PERT, CPM, and Precedence Network
5.	Resource Management in Projects- Concept of time constrained and resource constrained levelling, Time cost trade-off
6.	Project cost management
7.	Project Schedule and Cost monitoring, Unit cost method, S-curve, and Earned value analysis
8.	Project planning, scheduling, controlling, and reporting using MS Project
9.	Project planning, scheduling, controlling, and reporting using Primavera Project Planner, Simulation in project management
10.	Supply chain management in projects
Mid Term Review	
11.	Contract management, vendor selection, prequalification, Contract type- separated, management, integrated, and discretionary contracts.
12.	Contract Management Control System
13.	Project quality management and six sigma
14.	Data analytics in projects
15.	Risk identification, analysis, and mitigation in projects
16.	Safety management in projects
17.	Dispute resolution in projects
18.	Critical chain project management
19.	Introduction to PMBOK process framework- initiating process group and executing process group, Human resource planning, Portfolio Approach to Project Management
20.	Soft skills in project management – behavioural and leadership.
21.	Communicating with stakeholders in a project
22.	Project Audit- Vigilance issues
23.	Issues in Project Closure
End Term Review	

Note: This is an indicative list of the course topics and is subject to change at IIT Delhi's discretion.

Program Coordinator

Dr. Kumar Neeraj Jha

Professor,

Department of Civil Engineering, IIT Delhi

Dr. Kumar Neeraj Jha is a renowned expert in Construction Management with 18 years of academic experience and 12 years of field experience. He has made significant contributions to the field through his extensive research and numerous publications. He is actively engaged in mentoring students and fostering interdisciplinary collaborations. His expertise extends beyond academia as he frequently collaborates with industry professionals and policymakers to bridge the gap between theory and practice.

Faculties for this program are drawn from different departments of IIT Delhi, IIMs, and from renowned universities from India and abroad.

Programme Certificate

- Achievement of a certificate requires a minimum of 50% in the evaluation elements and consistent attendance of 70% in lectures and tutorials.
- Maximize your learning journey by actively participating in live sessions. Your dedication is encouraged for an enriched learning experience.
- The organizing department of this program is the Department of Civil Engineering, IIT Delhi.
- Only an e-certificate will be provided, and it will be issued by CEP, IIT Delhi.

Programme Details

Programme Schedule

- Duration   6 Months
- Course Orientation   May 25th, 2025
- Mode of Sessions   Live Online Sessions (Zoom Platform)
- Timings   Sundays (2.00 pm to 5.00 pm)

Eligibility

- Graduates (10+2+3) in any discipline/ Diploma Holders in any branch of Engineering from a recognised university.

Evaluation

➢ The evaluation criteria will be determined by the faculty. It will include quizzes, projects, case studies, assignments, etc.

Payment Schedule

➢ **Programme Fee**   INR 10,000 + GST (18%)

a) Withdrawal from the programme will be governed by the Cancellation and Refund Policy.

b) **Cancellation and Refund Policy:** The refund of the participation fee will be made as per the following norms:

Milestones of the refund request received	Refund Permissible
Within 15 days from the programme start date mentioned in the offer letter	80% of the total fee received. However, the tax applicable amount once paid would not be refunded on the paid amount.

In case of a refund request, please contact email id: ceppmiitd@gmail.com; cepiitd@admin.iitd.ac.in

Payment Instructions: You can pay the programme fee by scanning the QR Code provided in the official communication, or by clicking the following secure link:

The payment link is https://ceppay.iitd.ac.in/events/event/KqtXCrQl

About IIT Delhi

The Indian Institute of Technology Delhi (IIT Delhi) is one of the 5 initial IITs established for training, research and development in science, engineering, and technology in India. Established as College of Engineering in 1961, the Institute was later declared as an Institution of National Importance under the "Institutes of Technology (Amendment) Act, 1963" and was renamed as "Indian Institute of Technology Delhi". It was then accorded the status of a Deemed University with powers to decide its own academic policy, to conduct its own examinations, and to award its own degrees.

Since its inception, over 48000 have graduated from IIT Delhi in various disciplines including Engineering, Physical Sciences, Management and Humanities & Social Sciences. Of these, nearly 5070 received PhD degrees. The rest obtained a Master's Degree in Engineering, Sciences and Business Administration. These alumni today work as scientists, technologists, business managers and entrepreneurs. There are several alumni who have moved away from their original disciplines and have taken to administrative services, active politics or are with NGOs. In doing so, they have contributed significantly to the building of this nation, and to industrialisation around the world. For more details, please visit: www.iitd.ac.in.

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About Continuing Education Programme (CEP)

Executive education is a vital need for the companies to build a culture that promotes newer technologies and solutions and builds a workforce that stays abreast of the rapidly transforming needs to the technological, business and regulatory landscape.

Committed to the cause of making quality education accessible to all, IIT Delhi has launched Online Certificate Programmes under eVIDYA@IITD (ई-विद्या@IITD): enabling Virtual & Interactive-learning for Driving Youth Advancement@IITD for Indian as well as international participants. These outreach programmes offered by the Indian Institute of Technology Delhi (IIT Delhi) are designed to cater to the training and development needs of various organisations, industries, society and individual participants at national and international level with a vision to empower thousands of young learners by imparting high-quality Online Certificate Programmes in cutting-edge areas for their career advancement in different domains of engineering, technology, science, humanities and management. For more details, please visit: http://cepqip.iitd.ac.in

For any query/feedback please write to CEP, IIT Delhi at contactcep@admin.iitd.ac.in or to the programme coordinator at knjhacivil@gmail.com

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