



भारतीय प्रौद्योगिकी संस्थान दिल्ली  
Indian Institute of Technology Delhi

# Certificate Programme in **Project Management**

**Technical Orientation: December 30, 2024**  
**6 Months | Live Online Sessions**



**BATCH 11**

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

# PROGRAMME OVERVIEW

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As one of the leading educational institutions in India, IIT Delhi brings you an exceptional opportunity to master the art and science of project management. This comprehensive programme is designed to equip professionals like you with the skills, knowledge, and tools necessary to excel in the dynamic field of project management. Whether you are an evolving project manager looking to enhance your expertise or someone aspiring to enter this exciting field, our programme will provide you with a solid foundation and advanced insights to effectively lead and deliver successful projects. Join and embark on a transformative journey that will elevate your project management capabilities to new heights. Project management plays a crucial role in ensuring project success by aligning projects with organisational goals, optimising resources, managing risks, facilitating effective communication, ensuring quality, and adapting to change. It is a strategic discipline that enhances efficiency, effectiveness, and stakeholder satisfaction, ultimately driving organisational success.



**According to PMI, India will require 7 million new project managers in the next 10 years. Tools like Microsoft Project and Jira are commonly used in India, given their strong support for IT project management. Of the high-performing projects in India, 77% of them will use project management software.**

(PMI, 2023)



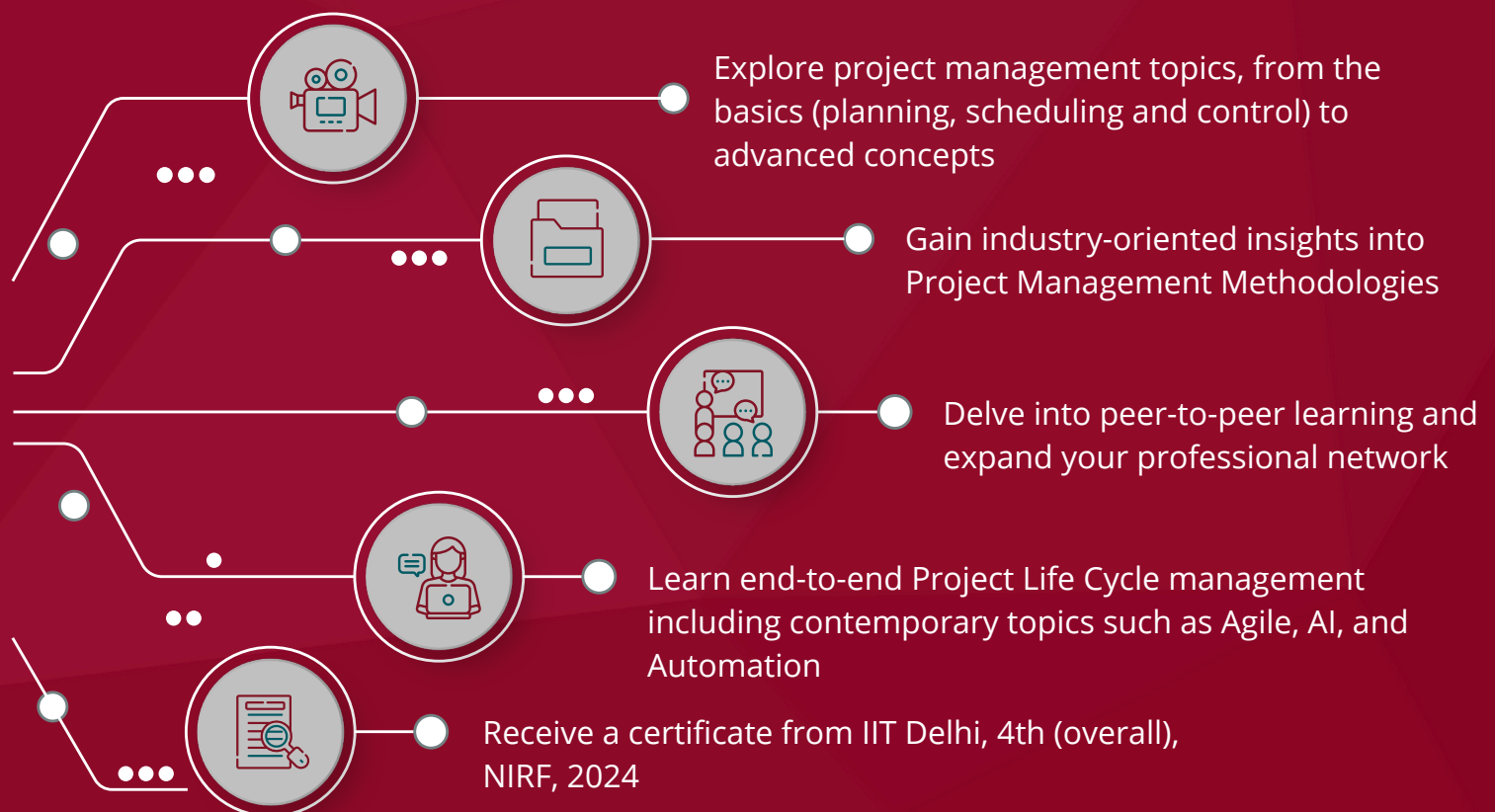
# WHO IS THIS PROGRAMME FOR?

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- **Early-career Professionals** looking to formally gain project management qualification, aiming to enhance their skills in end-to-end project management
- **Managerial Professionals** from diverse sectors seeking to fuel their project management careers through advanced methodologies and latest industry practices
- **Consultants** seeking to offer innovative project management solutions and entrepreneurs aiming to optimise resource allocation and business processes through project management in practice
- **Research Scholar, Research Scientist and Post Graduates** will seek help to improve skill set to keep up with the current trends and increase the chances of employability

## PROGRAMME HIGHLIGHTS

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# LEARNING OUTCOMES

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Understand the project management trajectory, from defining the project scope to closure



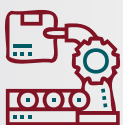
Leverage project management to increase profits and acquire a sustainable competitive advantage



Apply globally recognised project management frameworks for real-world problems



Learn to apply risk analysis techniques and monitor projects on schedule & cost



Understand Six Sigma, Quality Management & Agile Project Management and apply them in an organisational context



# PROGRAMME MODULES

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**Module 1:** Introduction to Project Management

**Module 2:** Knowledge Areas as per PMBOK

**Module 3:** Project Life Cycle & Initiation

**Module 4:** Project Scope Management

**Module 5:** Project Charter, Assumption and Constraint Log: Handholding In Preparing These For Your Projects

**Module 6:** Stakeholder Management In Projects and Approaches To Control Scope Creep

**Module 7:** Portfolio Approach to Project Management

**Module 8:** Project/Portfolio Selection and Organisational Strategy

**Module 9:** Project Planning

**Module 10:** Breaking Down Project Scope Into Manageable Sections (WBS)

**Module 11:** Project Scheduling: Handholding Training On Developing Project Schedule

**Module 12:** Project Cost Management: Handholding Exercise On Time-cost Trade-off

**Module 13:** Project Control: Handholding exercise On Earned-value Analysis

**Module 14:** Risk Analysis In Project Management

**Module 15:** Exposure To Software Applicable In Project Management

**Module 16:** Six Sigma And Project Management

**Module 17:** Designing Lean And Just-in-time system In Projects

**Module 18:** Project Quality Management: Guiding Principles And Guru-mantras

**Module 19:** Project Appraisal

**Module 20:** Critical Chain Project Management: Guiding Principles And Guru-mantras

*Note:*

*-Modules/ topics are indicative only, and the suggested time and sequence may be dropped/ modified/ adapted to fit the total programme hours. Case studies, real world examples and numerical illustrations are an integral part of multiple modules included in the course.*

*-The primary mode of learning for this programme is via live online sessions with faculty members.*

*-Post session video recordings will be made available for additional two months after the last session of the programme.*

# PROGRAMME MODULES

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**Module 21:** Project Communication Management: Guiding Principles And Guru-mantras

**Module 22:** Software Project Management And Adaptive And Agile Project Management

**Module 23:** PM Process Framework

**Module 24:** Value Analysis And Value Engineering (VA/VE) and Value Delivery Systems in Project Management

**Module 25:** Leadership Aspects Of Project Management

**Module 26:** Human Resource Planning In Project Management

**Module 27:** Ethical practices And Adhering To Professional Code of Conduct

**Module 28:** Green Projects And Environmental Concerns In Projects Management

**Module 29:** Business Analytics In Project Management: Hand-holding Exercise through Case Study

**Module 30:** Project Commissioning, Closure And Handover

**Note:**

*-Modules/ topics are indicative only, and the suggested time and sequence may be dropped/ modified/ adapted to fit the total programme hours. Case studies, real world examples and numerical illustrations are an integral part of multiple modules included in the course.*

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# TOOLS

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**MS Project**



**Earned Value Analysis (EVA)**



**Project Evaluations Using NPV, IRR and Other Tools**



**Descriptive, Predictive and Prescriptive Analytics In Projects**



**Optimisation Using Excel (Solver) And Software**

**Note:**

*-All product and company names mentioned in this material are trademarks or registered trademarks of their respective holders. Their use does not imply any affiliation with or endorsement by them.*

*-Above mentioned tools are some of the tools covered in the programme.*

# PROGRAMME COORDINATOR

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## Dr Kumar Neeraj Jha

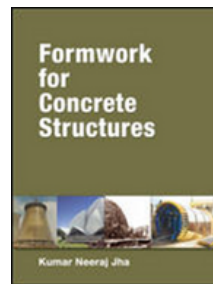
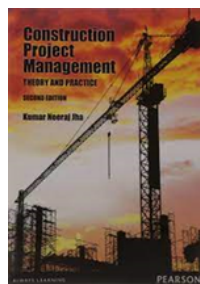
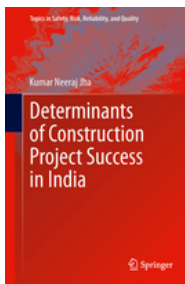
Professor, Department of Civil Engineering  
IIT Delhi

Kumar Neeraj Jha, PhD is a professor of civil engineering at the Indian Institute of Technology Delhi. He started his career with Larsen and Toubro Ltd. and was instrumental in the successful completion of a number of construction projects. He has published more than 150 papers in a number of international and national journals and conference proceedings.

He has supervised 20 PhD Students and more than 100 MTech students. His books, Construction Project Management, Formwork and Scaffold Engineering, and Construction Safety Management (published by Pearson Education) as well as Determinants of Construction Project Success in India (published by Springer) and Construction Company Management (published by Taylor and Francis Group), are widely accepted as textbooks in different universities. He teaches Programmes in construction engineering and management.

He has conducted a number of training programs for practitioners and academics and has been involved in a number of consultancy and sponsored research projects of national importance. He is a reviewer of all major journals in the area of construction engineering and management and is the Editor-in-chief of Journal of Safety Engineering.

## BOOKS AUTHORED BY DR. NEERAJ



*Note: Programme faculty might change due to unavoidable circumstances, and revised details will be provided closer to the programme start date.*



# RESOURCE FACULTY

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## Dr. Ravi Shankar

Professor (HAG), Department of Management Studies,  
IIT Delhi

RAVI SHANKAR is Professor (HAG) in the Indian Institute of Technology, Delhi in the Department of Management Studies. His teaching, research and corporate training are primarily in the area Operations and Supply Chain Management, Project Management, Decision Sciences, and Business Analytics & Optimization. He is the “Fellow of Indian National Academy of Engineers (FNAE)” and Indian Institute of Industrial Engineering (IIIE). The 2nd Edition of Research.com (November 2022) ranked Prof. Ravi Shankar as the best (1st Rank) scientist (researcher) in India and 101st best globally in the arena of Business and Management. Prof. Shankar appeared in the 2022 list of Elsevier’s Top 2% list Indian Productive Researchers in the business and management category on a single year basis.

In 2018, from the Minister of Human Resource Development (Govt. of India), he received the “Outstanding Faculty Award” for being the “The Most Research Proficient Faculty of India in management area.” In year 2016, a research paper published in Omega: An International Journal of Management Science has ranked him as the top-most productive researcher in the Business-schools in India. He was also ranked as the top Indian researcher in Logistics by leading area experts in German Universities. Prof. Shankar is the recipient of ‘Dr R. P. Mohanty Gold Medal for Outstanding Teacher’ from Indian Institute of Industrial Engineering (IIIE), Mumbai India. He has strong academic collaborations with many leading business schools in UK, USA, Thailand, Denmark, Vietnam, etc.

Prof Ravi Shankar co-authored textbooks on Operations & Supply Chain Management, Management of Technology, and Strategic Management of Technological Innovation. His research citations exceed 31,148 with an H-index of 84 (till June 2024), which is one of the highest in any Business Schools in India. He regularly conducts training programs, through online E-learning platforms as well as face-to-face interactions, for working professionals in industries and academia, in the broad area of Operations & Supply Chain Management, Project Management, Six-sigma: Green-belt, and Business Analytics & Optimisation.

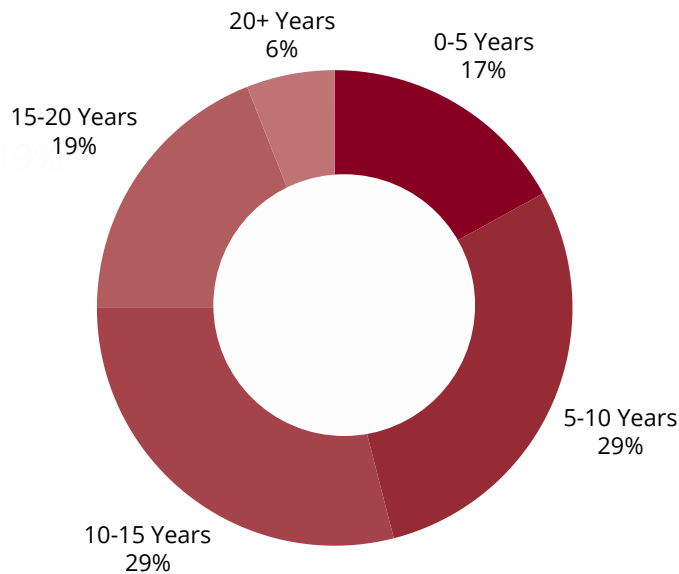
## BOOKS AUTHORED BY DR. RAVI



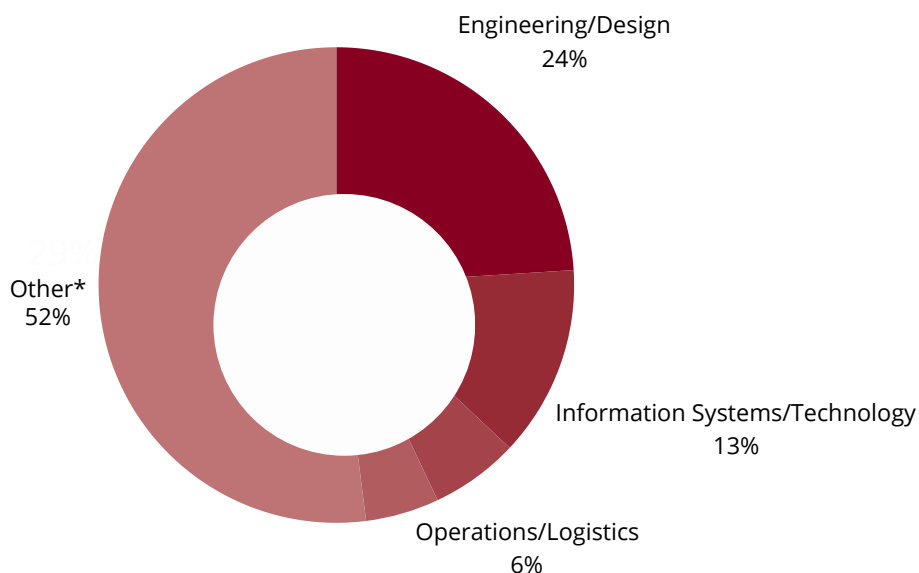
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# PAST PARTICIPANT PROFILES

## Work Experience



## Industry



\*Others include Consulting, Pharmaceuticals, Healthcare, and FMCG, amongst others.

## Job Functions

- Administration & HR
- Administrative
- Consulting
- Customer Service
- Engineering
- Finance/Accounting
- General Management
- Government Affairs
- Human Resource
- Information Systems/Technology
- Marketing
- Marketing and Sales
- Operations
- Consultant
- Counselling
- Psychologist Digital
- Journalist and Social Media Professional
- Instructional Designer
- Strategy and Brand
- Research and Development
- Sales

# PARTICIPANT TESTIMONIALS

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“ The lessons delivered by professors were really very good. The sessions were really interactive, which helped understand complex topics. Also, many real life use case understanding helped to connect the course with industry applications. ”



**Hemanth  
Kumar G**

“ Best part of the course is the guru mantras by professor Ravi Shankar which acts like a Chanakya Niti to survive in any kind of job or at any place. In addition to these, all lectures are immersive and engaging, interesting and interacting. ”



**Pulkit Kr.  
Dohan**

“ The sessions from Prof. Ravi Shankar were excellent. Their each and every slide has something or the other to learn. It helped me to present multiple topics to teams in the SADC region while I was on a quarterly visit. The biggest victory was about Stakeholders Management and Scope Management. This is where most of the projects we have, are getting impacted leading to delays and cost overruns. ”



**Tangirala Viswanath**



# PROGRAMME CERTIFICATE

Participants who score at least 50% in the evaluation components and maintain a minimum of 60% attendance in both lectures and tutorials will be awarded a completion certificate. Participants who are unable to score 50% in the evaluation components will be eligible for a participation certificate if their attendance is above 60% in both lectures and tutorials. We encourage you to attend all the live sessions and make the best out of these interactive learning experiences. Post-session recordings will be available for revision for two months after the programme completion.

Programme Code: .....

 **Indian Institute of Technology Delhi**   
HAUZ KHAS, NEW DELHI- 110016

Department/Centre/School of .....

**Continuing Education Programme**  
**On**  
**Title of the Programme**

This is to certify that

Mr./Ms. Name Of The Participant

has successfully completed the online certificate programme on "Title of the Programme" held from ..... to ..... by the Indian Institute of Technology Delhi.

Prof. Programme Coordinator      Prof. Head of the Department      Prof. Head/Associate Head, QIP/CEP

An initiative under eVIDYA@IITD (ई-विद्या@IITD)



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An initiative under eVIDYA@IITD (ई-विद्या@IITD)



*Note: :-All certificate images are for illustrative purposes only and may be subject to change at the discretion of IIT Delhi.*

*-Only e-certificate will be issued by CEP IIT Delhi.*

*-The organising department for this programme is the Department of Civil Engineering.*

# PROGRAMME DETAILS

## Programme Schedule

<b>Duration</b>	6 Months
<b>Technical Orientation</b>	Dec 30, 2024
<b>Academic Orientation</b>	Jan 11, 2025
<b>Live Online Sessions</b>	Jan 18, 2025, Saturday 3:30 pm to 6:45 pm

\*A few sessions will have one hour dedicated for discussing the industry insights, case studies and addressing the participant's doubts.

## Eligibility

Graduates (10+2+3) from a recognised university (UGC/AICTE/DEC/AIU/State Government/recognised international universities) in any discipline. Diploma in any branch of Engineering.

### Note:

- The above criteria should be as on the programme start date i.e., Dec 30, 2024.
- Minimum eligibility criteria is not a guarantee for offer letter.

## Evaluation

- The evaluation will be at faculty's discretion. It will include quizzes, projects, case studies, problems, etc.

## Selection Process:

- Screening and selection will be done by IIT Delhi

# PAYMENT SCHEDULE

**Programme Fee**      INR 95,000 + GST

	Instalment 1	Instalment 2	Instalment 3
<b>Remarks</b>	Within 5 days post selection	Jan 02, 2025	Mar 02, 2025
<b>Amount</b>	INR 19, 000 + GST	INR 38,000 + GST	INR 38,000 + GST

### Note:

- The actual programme schedule will be announced closer to the programme start.
- GST (currently @ 18%) will be charged extra on these components.
- Postage charges for books and study materials sent to locations outside of India will be paid for by the student.
- Loan and EMI services are provided by Eruditus Learning Solutions Pvt Ltd, and IIT Delhi is not responsible for the same.

<b>Last Date to Apply</b>	Nov 06, 2024
<b>Shortlisted Candidates Will Be Informed by</b>	Nov 13, 2024
<b>Last Date to Submit the Fee</b>	Within 5 Days Post-selection

Note: Applications will be reviewed based on eligibility, and the subsequent shortlisting process will be completed as laid down by the Programme Coordinators.

**All fee should be submitted in the IIT Delhi CEP account only, and the receipt will be issued by IIT Delhi CEP account for your records.**

\* 6 month duration is counted from first academic session i.e. (Jan 18, 2025) and the same date will also be mentioned on the certificate as the starting date of the programme. The mentioned minimum eligibility criteria is not a guaranteed for selection. Selection cut-off for this programme can be altered on the discretion of IIT Delhi.



# Application Requirements

## Graduation and Post-Graduation Education:

- Consolidated Graduation Marksheet (All Semester)
- Final year students may submit the marksheets up to the previous semester

## ID Proof:

- Any Government-issued photo ID like PAN Card/ Driving License/ Passport, etc.
- Submission of passport-size photo during application is mandatory

# System Requirements

This programme includes online learning classes conducted on Zoom. To attend an online learning class you will need to have a PC/ Laptop/ Mac with:

- Speakers and microphone: built-in or a USB plug-in or wireless Bluetooth
- Webcam: built-in or USB plug-in
- Processor: with Dual Core 2Ghz or higher (i3/ i5/ i7 or AMD equivalent)
- RAM: 4 GB or higher
- OS: Either MacOS 10.7 or higher OR Windows 8 or higher
- An internet connection: Minimum bandwidth of 3.0 Mbps (up/ down)
- Browser: IE 11+, Edge 12+, Firefox 27+, Chrome 30+
- Zoom software client installed on your PC/ Laptop/ Mac

We use the Zoom software application to conduct online learning classes. Zoom works on a variety of PCs/ Laptops/ Mac systems and also on phones and tablets.

You can join your online learning class from a phone or tablet if it supports the Zoom client.

We recommend that you attend classes from a PCs/ Laptops/ Mac.

## WITHDRAWAL AND REFUND FROM PROGRAMME

- Candidates can withdraw within 15 days from the Programme Start Date. A total of 80% of the total fee received will be refunded. However, the applicable tax amount paid will not be refunded on the amount paid.
- If you wish to withdraw from the programme, you must email [cepaccounts@admin.iitd.in](mailto:cepaccounts@admin.iitd.in) and [iitd.execed@emeritus.org](mailto:iitd.execed@emeritus.org), stating your intent to withdraw. The refund, if applicable, will be processed within 30 working days from the date of receiving the withdrawal request.

# ABOUT IIT DELHI

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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](http://www.iitd.ac.in)

## ABOUT CONTINUING EDUCATION PROGRAMME (CEP)

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Executive Education is a vital need for the organisations 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>

**APPLY NOW**

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For registration and any other information,  
please get in touch with us at [iitd.execed@emeritus.org](mailto:iitd.execed@emeritus.org)

For any feedback, please write to CEP IIT Delhi  
at [contactcep@admin.iitd.ac.in](mailto:contactcep@admin.iitd.ac.in)

 [WhatsApp an Advisor On +91 86570 38243\\*](https://wa.me/918657038243)

\*This number does not accept any calls. Please message your queries.



Online Certificate Programmes are offered by the Indian Institute of Technology Delhi under the aegis of Continuing Education Programme (CEP) so that the Institute can realise its vision of serving as a valuable resource for industry and society, and fulfil its mission to develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

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