LARGE LANGUAGE MODELS AND BUSINESS ANALYTICS

24 October – 5 December 2026 (7 weeks)
Every Saturday, 3 Hours
(Online)

IN COLLABORATION WITH
UNIVERSITY OF LIVERPOOL, UK

ORGANISED BY
VINOD GUPTA SCHOOL OF MANAGEMENT
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, INDIA

OBJECTIVE OF THE COURSE

The course is offered in collaboration with the University of Liverpool, UK. It aims to provide participants with a foundational understanding of Large Language Models (LLMs), Generative AI, and Business Analytics, with an emphasis on their applications in business and data-driven decision-making.

The Large Language Models module, delivered by a faculty member from the University of Liverpool, UK, introduces participants to key concepts in language modelling, transformer architectures, attention mechanisms, fine-tuning, alignment, and safety considerations in Generative AI.

The Business Analytics module, delivered by faculty members from IIT Kharagpur, covers data preprocessing, exploratory data analysis, data visualization, data management, regression, classification, clustering, and other analytical techniques for structured data analysis and data-driven decision-making.

TOPICS TO BE COVERED

LLM (Taught by the External Faculty, University of Liverpool, UK)

Module 1: What Are Language Models
Module 2: Introduction to Large Language Models
Module 3: Tokenization
Module 4: Scaling Laws
Module 5: Introduction to Transformer Architecture
Module 6: Attention Mechanism
Module 7: Different Modes of Using Transformers
Module 8: Fine-Tuning, Instruction Tuning, and Alignment
Module 9: Safety Issues of Using LLMs
Module 10: Tools for Looking Inside LLMs

Business Analytics (Taught by the IIT Kharagpur Faculty)

Module 11: Leading Organizations in the Age of AI
Module 12: Linear and Logistic Regression
Module 13: Supervised Segmentation
Module 14: Regularisation, Bias and Variance
Module 15: Time Series Modelling
Module 16: Hypothesis Testing
Module 17: Discriminate Analysis
Module 18: Conjoint Analysis
Module 19: Cluster Analysis
Module 20: Structural Equation Modelling

COURSE MATERIALS

The programme is application oriented. Necessary course materials will be provided to the participants during the course.

WHO CAN ATTEND?

The course is addressed to corporates, executives and academicians only.

VENUE AND PLATFORM

Venue: Online

Schedule: Every Saturday, 3 hours, from 24 October 2026 to 5 December 2026.

COURSE COORDINATORS

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PROCESS FLOW

Sign up → Login → Profile Fill-up → Choose a Program → Apply Now

Payment if applicable is to be done ONLINE after getting short listed for the program.

IMPORTANT DATES

Last date of application: **16 October 2026**

Course dates: **24 October – 5 December 2026 (every Saturday)**

COURSE FEE (including Goods and Services Tax (GST) 18.00%). It is non-refundable and non transferable under any circumstances.

Category A: Corporate Professionals
Rs. 15000/-

Category B: Academicians/ Others
Rs. 10000/-

Category C: Students (Undergraduate/Postgraduate)
Rs.6000/-

CERTIFICATE

Certificate will be issued to each participant from the Office of Dean (CE), Indian Institute of Technology, Kharagpur.