

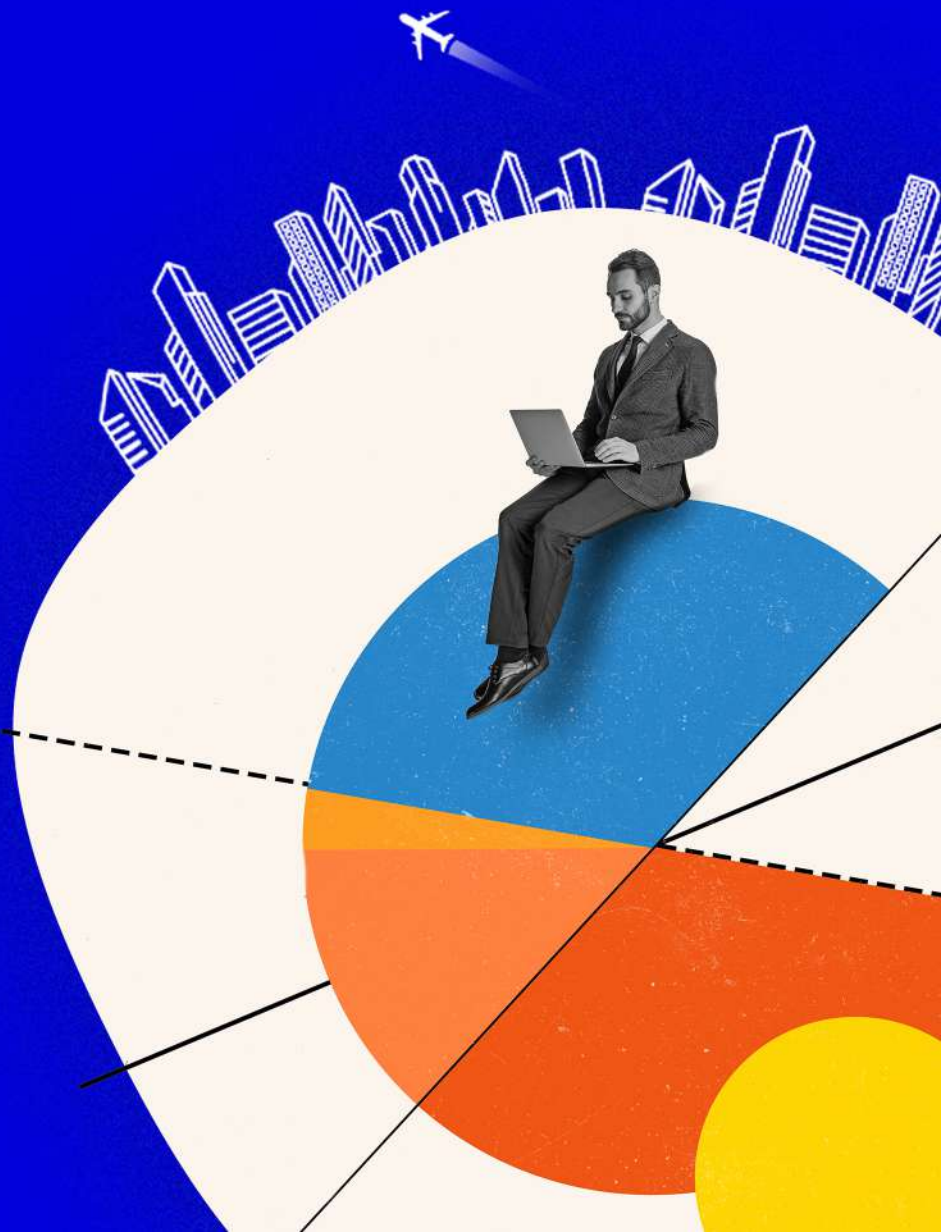


**TALENTEGE**

**Professional Certificate  
Program In**

# **Business Analytics**

**From IIM Kozhikode  
Batch 7**



# THE IIM KOZHIKODE ADVANTAGE

## *From the Director's Desk...*

IIM Kozhikode programmes designed by world-class faculty with their cutting-edge thought and industry-leading insights empower participants to manage and lead complex business challenges with confidence and informed decision-making ability. Our growing global footprints acknowledged and accredited by leading institutions of the world are a testimony to growth we have achieved in our 25-year journey of academic excellence.

At this juncture, it is also pertinent to share that both future and past are integral to the path taken by an institution on this journey of excellence. Having a wide, far-seeing vision is not an indulgence but an activity that is necessary to give meaning to our present, to give this Institution a sense of purpose, direction and imagination. That is why we have chosen to think in terms of what IIM Kozhikode will be able to contribute to India and the world some three decades from now with 'Vision 2047: Globalizing Indian Thought.' The sheer scale, scope and potential impact that India will have on 21st century business makes us believe that this is a legitimate aspiration.

For candidates, Business Analytics is a set of techniques and processes that can be used to analyze large and noisy data to improve business performance through fact-based decision-making. It nurtures the amalgamation of data warehousing, data mining, statistics, and machine learning; applies in various functional areas of business and management to find patterns in the relationships; creates capabilities for companies to compete in the market effectively. It has been proven to be highly useful in industries such as banking, insurance, telecom, retail, travel, healthcare, etc., and has shown a very positive impact on business decision-making! The BA programme has thus been designed keeping the above objectives in mind.

*Wishing you all the very best!*



*Debashis Chatterjee*

**Prof. Debashis Chatterjee,**  
Director, IIM Kozhikode



## **PROGRAM OVERVIEW**

Thomas Devonport in his book titled, “Competing on analytics: The new science of winning”, claims that a significant proportion of high-performance companies have high analytical skills among their personnel. The rise of business analytics has resulted in a great demand for trained business analysts and the trend will only continue to rise. According to Wall Street Journal, “Companies, barraged with data from the web and other sources, want employees who can both sift through the information and help solve business problems. As the use of analytics grows quickly, companies will need employees who understand the data”. Businesses increasingly need to know how to leverage analytics to gain managerial and strategic insights to improve their competitive position.

Business Analytics is a set of techniques and processes that can be used to analyze large and noisy data to improve business performance through fact-based decision-making. It nurtures the amalgamation of data warehousing, data mining, statistics, and machine learning; applies in various functional areas of business and management to find patterns in the relationships; creates capabilities for companies to compete in the market effectively. It has been proven to be highly useful in industries such as banking, insurance, telecom, retail, travel, healthcare, etc., and has shown very positive impact on business decision-making.

The program is designed to provide in-depth knowledge of data-based decision-making using real case studies. The module-based program would impart participants a sequential learning with a strong foundation of data analytic techniques followed by real applications across various domains.

### **Program Highlights**

- Help participants understand the critical concepts of business analytics and research, including research design, data processing, and data analysis
- Clarify the scientific understanding of complex methods which are required in business decision making

Help participants, effectively apply analytical concepts in real life scenario

## **ELIGIBILITY**

- For Indian Participants - Graduates (10+2+3) or Diploma Holders (only 10+2+3) from a recognized university (UGC/AICTE/DEC/AIU/State Government) in any discipline
- For International Participants - Graduation or equivalent degree from any recognized University or Institution in their respective countries
- Work Experience – Minimum 3 years of work experience

## **PROGRAM PREREQUISITES**

- Knowledge or familiarity with basic statistics, analytics, and statistical software will be useful but not mandatory for the Program.
- Pre-readings will be circulated and an introductory run on elementary concepts will be introduced in the initial sessions of this program. Participants are expected to go through the pre-reads and come prepared for the classes as instructed.

# WHO SHOULD ATTEND

- Middle-level managers who wish to switch to a career in analytics
- Business analysts who want to sharpen their knowledge in analytics
- Domain specialists and anyone within a wide range of professional backgrounds planning to undertake business analytics projects with the help of analytic tools and techniques
- Early managers and working executives who are new to the analytics domain
- Academicians from business schools

# CERTIFICATE

On satisfying the requisite attendance criteria and successfully clearing the evaluation, participants will be awarded a Certificate of Completion.

Participants who fail to clear the assessment process but fulfil the attendance criteria will be awarded a Certificate of Participation.



# PEDAGOGY

The primary method of instruction will be through LIVE lectures that will be beamed online via Internet to student desktops/laptops or classrooms. The program will be delivered through a combination of methods as listed below

- Live classroom session, which is a forum for discussion. "Discovery through discussion" is a very effective method that gives participants an opportunity to exchange and explore ideas, debate them, and jointly arrive upon solutions to problems.
- Lectures, designed to clarify the readings, and to amplify them with illustrations and related concepts drawn from other sources.
- Cases/Exercises that are important in helping participants to assimilate principles. In the case analyses and other assignments participants discover concepts and apply what has been learnt. Further, participants will be making decisions similar to the way it is done in a managerial situation.
- Data Analysis, in order to process and bring order, structure, and meaning to the mass of primary and secondary data.

All enrolled students will also be provided access to our SLIQ Cloud Campus through which students may access other learning aids, reference materials, assessments, case studies, projects, and assignments as appropriate. Throughout the duration of the course, students will have the flexibility to reach out to the professors, real-time during the class or offline via our SLIQ Cloud Campus to raise questions and clear doubts.

## **SYLLABUS**

### **Module 1: Business Analytics Foundation**

Module 1 comprises the foundation of business and analytics along with familiarity with data analytic tools like R and SPSS. The participants will learn the fundamentals of basic Statistical Methods. While the program is designed for middle-level managers, this module will go a long way in brushing-up the fundamentals of analytical techniques in the context of your business. Moreover, the module will include data preprocessing, data visualizations, and writing algorithms in the context of business.

- Introduction to business analytics and data analytic tools
- Exploratory data analysis
- Statistical inference
- Marketing Management and CRM

### **Module 2 : Business Analytics Techniques**

Module 2 comprises the nervous system of the course which includes predictive analytics and advanced analytics. Predictive analytics will cover both statistical and machine learning techniques, while advanced analytics will comprise unsupervised data analytic techniques. These techniques are very useful to middle-level managers to find patterns in the data and use them in managerial decision-making.

- Predictive Analytics (Regression techniques, Logistic regression, Tree-based methods, Ensemble Models, Time series analysis)
- Advanced analytics (Dimension reduction technique, Clustering technique, Conjoint analysis, social media analytics)

### **Module 3 : Business Analytics Applications**

Module 3 focuses on the applications of techniques of analytics in business.

- Customer and Retail analytics
- Financial Analytics
- Supply chain Analytics
- HR Analytics

## **CAPSTONE PROJECT**

The capstone project is an integral part of the successful program completion and will run throughout the program duration. Participants will learn to identify a real-life scenario of an organisation/industry, collect primary/secondary data, and apply concepts discussed in the modules of this program to source a probable solution. This project will enable a deep understanding of the subject matter and foster the practical application of the program learning in real-world business scenarios.

## FACULTY



### **Prof. Shovan Chowdhury**

Ph.D. in Statistics (University of Calcutta), M.Sc. in Statistics (University of Calcutta)

Prof Shovan Chowdhury is a Professor in the area of Quantitative Methods and Operations Management in IIM Kozhikode. He earned Bachelor of Science, Masters of Science, and PhD degrees in Statistics from University of Calcutta. He has published several articles in international peer-reviewed academic journals. He has co-authored books titled “Applied Statistics in Business and Economics”, and “Forecasting and Predictive Analytics” by leading international publishers.



### **Prof. Atanu Adhikari**

Ph.D. (ICFAI University), MBA (Gold Medalist, University of Calcutta),  
BE (NIT, Durgapur)

Former Doctoral Fellow Member of Royal Statistical Society, London, Commonwealth Academic Fellow to London Business School, UK, Visiting Researcher to Syracuse University, USA, PhD (ICFAI University with one year visiting program at Syracuse University, USA), MBA (Gold Medalist, IISWBM, University of Calcutta), BE (National Institute of Technology, Durgapur). He has taught as an adjunct faculty in many business schools abroad and in several IIMs in India. He has designed and conducted several executive education and management development programmes for middle and senior management executives working in Fortune 500 companies, large Indian companies, and public sector organisations.

## ASSESSMENT

Evaluation methodology is the discretion of the faculty. The methodology includes online exams, case analysis, class contribution, and any other component as decided by the faculty. A minimum of 75% attendance in **live lectures** is a prerequisite for the successful completion of this program. The program may require participants to work on individual/group assignments and/or projects. The main objective of such assignments/projects will be to help the participants apply their conceptual learning in the program to actual organizational decision scenarios. The participants will have to secure the minimum pass marks in the respective evaluation components. Participants who successfully complete the same and satisfy the requisite attendance criteria will be awarded a certificate of completion. Participants who are unable to clear the evaluation criteria but have the requisite mandatory attendance will be awarded a Participation certificate.

# BENEFITS TO PARTICIPANTS

- Certificate of Completion from IIM Kozhikode
- Provide a conceptual understanding of analytical techniques
- Case/exercise-based approach for managerial applications
- Hands-on experience of data processing
- Sophisticated statistical analysis of data using R/SPSS software package and interpretation of output for decision making.
- Opportunity to work on a project that requires assimilation and application of learnings through the course of the program
- Fully Online Course with LIVE online interactive lectures that provides a “real” classroom experience in a “virtual” environment. No isolated learning experience.
- Seamless technology that can transmit lecture videos effectively at the home broadband connection of 512 kbps.
- User-friendly and easy-to-use technology interface. No expensive and time-consuming software/hardware installations are required at your end.
- Virtual classrooms that allow active interactions with other fellow students and faculty.
- Convenient weekend schedules to suit working professionals.
- In the event that students miss attending the LIVE lecture on the Virtual Classroom for some reason, students can request “On Demand” access to the recorded session.
- TALENTEDGE’s Cloud Campus – Students on our virtual social learning platform are provided access to course presentations, projects, case studies, assignments, and other reference materials as applicable for specified courses. Students can raise questions and doubts either in real-time during the live class or offline through the Cloud Campus.
- Learn from Anywhere – No need to travel to an institute or training center. Students may learn from the comfort of their homes.

## **PROGRAM DETAILS**

- **Program Commencement:** Sunday, 4 December 2022
- **Schedule of Classes:** Sunday from 06.00 p.m. to 09.00 p.m. IST (3 hours)
- **Duration:** 5 months

## **PROGRAM FEE**

- **For Indian Residents:** INR 1,00,000 + GST
- **For International Residents:** USD 2100



# About IIM Kozhikode



भारतीय प्रबंध संस्थान कोषिकोड  
Indian Institute of Management Kozhikode  
*Globalizing Indian Thought*

Started in 1997 with its Postgraduate Programme (PGP), the Indian Institute of Management Kozhikode (IIMK) is on a high growth trajectory today, offering the widest range of academic programs in the field of management education. These include Doctoral Programme in Management, Executive PG Programmes, Management Development Programmes, and Faculty Development Programs. IIMK set up a Satellite campus at Infopark, Kochi, in 2013 dedicated to Executive Education. IIMK has also the unique distinction of launching a Ph.D. (Practice Track) programme for working professionals besides bringing in new dynamic courses in Women Leadership, a one-year Post Graduate programme in Business Leadership (2019) MBA in Finance and MBA in Liberal Studies & Management (2020). The institute is also home to IIMK LIVE, a first-of-its-kind startup incubation programme, and the Indian Business Museum. IIMK is ranked 4th as per the NIRF India Rankings 2021: Management. The institute also made its global debut for its flagship MBA (101+ globally, 7+ in Asia) and EMBA programme (101+ globally, 15+ in Asia) in the 2020/21 QS World University Rankings. It is also ranked No.2 in the CFIs (non-Technical) category in the Atal Innovation Rankings (ARIIA 2021) rankings released recently by the Ministry of Education, Govt. of India.

IIM Kozhikode is globally accredited by EQUIS (EFMD) and AMBA (UK).



IIM Kozhikode aims to create a unique and futuristic space of global reckoning so as to nurture the finest management thinkers in the pursuit of developing innovative, socially responsible, and environmentally friendly practitioners, leaders, and educators. Strategically moving towards a better future, the Institute strives to provide holistic learning, giving equal weightage to academic solidarity and practical application. IIM Kozhikode integrates concepts with applications and values, thus transforming individuals into dependable, capable, caring, and fair-minded personalities who will contribute towards the development of communities.

# About Talentedge

# **TALENTEDGE**

Talentedge is an Ed-Tech firm. We are the first to bring 'Live & Interactive' anywhere learning in digital format. Jointly with world's leading institutes and corporates, we offer courses to working professionals, enabling them to plan their future course of action and fast track their careers. We also partner with top Indian & International institutes including IIMs, XLRI, MICA, Jack Welch Management Institute (JWMI), London School of Business & Finance (LSBF) and also with top corporate names like Society of Human Resource Management (SHRM) and others. Our ability to re-create classroom-type interactions in the virtual world has struck a chord with over 4,50,000 individuals and corporate learners. By bringing eminent subject experts into online education, we initiate industry relevant learning. We are also one of the first Ed-Tech organizations to be credited with an ISO 9001:2008 certification.

# FOR MORE DETAILS

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