

Indian Institute of Technology Kharagpur
Vinod Gupta School of Management

Proposed Management Development Programme on Big Data Analytics
for Officers of Indian Economic Service [5 – Day Programme]

Location: Vinod Gupta School of Management (VGSOM), IIT Kharagpur

Suggested Dates: 21st to 25th January, 2019

Proposed Schedule

Day 1	
Session 1#	Introduction to Big Data Analytics
Session 2	Basic Data Handling with R Programing
Session 3	More Data Handling with R Programing
Session 4	Basic Statistics and Probability, Probability Distributions
Day 2	
Session 1	Data Visualization with Tableau
Session 2	Data Visualization with Tableau
Session 3	Hypothesis Testing – t test
Session 4	Hypothesis Testing – F test and ANOVA, Chi square test
Day 3	
Session 1	Linear Regression
Session 2	Logistic Regression
Session 3	Project - 1
Session 4	Dimension Reduction and Factor Analysis
Day 4	
Session 1	Machine Learning Technique – Naïve Bayes for Sentiment Analysis
Session 2	Machine Learning Technique – Artificial Neural Network
Session 3	Machine Learning Technique – Decision Tree
Session 4	Project - 2
Day 5	
Session 1	Cluster Analysis for Segmentation
Session 2	Forecasting Techniques
Session 3	Forecasting Techniques
Session 4	Project - 3

All sessions are of 90 Min duration.

Resource Persons

Dr Swagato Chatterjee (B.Tech, IITKGP; FPM, IIM Bangalore)

Prof Swagato Chatterjee, an IIT-IIM alumni, has a rich client base for MDP and consultancy projects on analytics: Ernst & Young, Yes Bank, CSC, Namura, Mitsubishi, Toyota, GE, Times of India, Coca-cola, NTPC, HPCL, Indian Oil, Philips, RPG Group etc. He brings in a mixture of industry experience and academic knowledge in the class to cater to audience of different seniority levels.

Dr Sujay Bhattacharya (PhD, IIITM, Gwalior)

Prof. Sujoy Bhattacharya's area of interest is business analytics. Prof. Bhattacharya is proficient in R and Python softwares. Prof. Bhattacharya can handle complex business analytics problems with varied applications.

Dr Kunal Kanti Ghosh (MTech, IIT Kanpur, PhD, IIT Kharagpur)

Prof. Kunal Ghosh has 30 years of experience in Tata Motors in the area of Automotive Design, Production, Quality, IT, Strategy Formulation & Execution. Prof. Ghosh's competence is in Supply Network Management and Business Analytics

Dr Parama Barai (FPM, XLRI Jamshedpur)

Prof. Parama Barai has six years' teaching experience in finance related subjects, specifically in the areas of investment management, financial analytics, financial risk modeling, derivatives, capital budgeting, and corporate finance. Prof. Barai also conducts research in these areas.

Dr Rudra Pradhan (PhD, IIT Kharagpur)

Prof. Rudra P Pradhan has more than a decade of teaching and research experience. His research interests include infrastructure finance, foreign direct investments and econometric modelling. Prof. Pradhan has published several research papers in various national and international referred journals.

Program Co-ordinator

Principal coordinator: Dr Swagato Chatterjee

IIT Kharagpur
Vinod Gupta School of Management

Programme Fee and Cost Breakup for 5 day Residential Management Development Programme on Big Data Analytics for Officers of Indian Economic Service

Particulars (For Batch Size of 15 participants *)	Amount
IIT Kharagpur - Continuing Education Programme Overhead @ 15% of Total Fees	₹ 1,32,600
Cost for VGSOM Venue	₹ 18,000
Course material development and preparation (Programme Kit, Study Material, user charges for using Harvard Business School/ IVEY Case studies, Photocopy and Stationeries.)	₹ 50,000
Guesthouse charges for lodging (AC executive rooms)**	₹ 1,08,000
Boarding and refreshments (Breakfast, Lunch, Dinner, Snacks/ Tea/ Coffee during the training programme)	₹ 1,60,000
Transport and logistics (in Campus)	₹ 28,000
Transport from Kolkata Airport to IITKGP and back***	₹ 54,000
Remuneration for resource persons/ staff:	
Programme Coordinators' fees	₹ 88,400
Faculty for lecture sessions (Rs. 10000 per sessions of 1.5 hours; four sessions a day, for five days)	₹ 2,00,000
Support Staff	₹ 45,000
Grand total****	<u>₹ 8,84,000</u>
Fees per participant per day for additional participant over and above 20 participants (covers guesthouse charges, boarding, refreshments and course material, Institute overhead, department overhead, and programme coordinators' fees)*****	₹ 12,000

* As per the decision of faculty board of VGSOM, IIT Kharagpur. Because of different fixed costs involved, a minimum number of participants is desirable.

** Based on Institute guesthouse charges for 6 nights

*** 6 AC Sedan will be arranged at a cost of INR 4500 per journey (12 journeys)

**** Excluding GST

Other Pointers

The costs includes the training, stay, food and other logistics costs of the participants only in Kharagpur.

No TA/DA is included in the costs

The participants have to make their own arrangement for travel to IIT Kharagpur and such costs are not included

The participants are requested to carry their own laptops so that hands on training can be given in the class.

(Swagato Chatterjee)
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