



BUSINESS



STATISTICS



TECHNOLOGY

POST GRADUATE DIPLOMA IN BUSINESS ANALYTICS



**A TWO-YEAR FULL-TIME RESIDENTIAL POST GRADUATE PROGRAMME
OFFERED BY THREE PIONEER INSTITUTES OF INDIA
IIM CALCUTTA | ISI KOLKATA | IIT KHARAGPUR**



ABOUT THE COURSE

PGDBA is a two year full-time residential post graduate programme offered by three pioneer institutes of India - IIM Calcutta, ISI Kolkata and IIT Kharagpur. Under the able guidance of country's leading faculty, the programme aims to cater to the growing need for professionals who are well equipped with business acumen, statistical knowledge and data analytics skills. The course nurtures future analytics leaders to improve their grasp of statistics and computer science which will help them generate key insights for real life business projects.

This program is brainchild of three institutes' vision to fulfill industry's growing demand for data driven managers and commitment for a better future. Only 2 year old, this program has already attracted great number of students to compete in admission process that includes a written test followed by an interview for shortlisted candidates. With a **less than 1.5% acceptance rate** & faculty and resources pooled from the 3 institutes, PGDBA ensures that the best of talents are trained to face the challenges of **Big data & Analytics driven future.**

DIRECTOR'S COMMUNIQUE



Sanghamitra Bandyopadhyay
Director, ISI Kolkata

Dear Recruiter,

We, along with IIMC and IIT KGP, have started PGDBA to cater the growing need of professionals who are well equipped with skills required to tackle business problems. PGDBA students are selected through rigorous process of aptitude exam and interviews. The time these students spend at ISI gives them an enriching experience in statistics and I am sure that they have great potential to be successful future leaders in any organization.



Partha Pratim Chakraborty
Director, IIT Kharagpur

Dear Recruiter,

It is with immense pride that I take this opportunity to introduce you the second batch of PGDBA. They have garnered very positive reactions from industry specialists that have come to campus to interact with them. Our students are also trained in management fundamentals and can take leadership roles in analytics domain. Hence I recommend them enthusiastically for your consideration. Looking forward to establish and strengthen this symbiotic relationship between your organizations and the course



Saibal Chattopadhyay
Director, IIM Calcutta

Dear Recruiter,

PGDBA has been designed for students with analytical mindset and strong mathematical and problem-solving skills. The students of second batch have shown immense analytical and business aptitude in solving real time problems that plague businesses. A look at the batch profile for the present class will show that we have a good mix of both experienced and fresh graduates from leading firms and institutes with work experience in IT, Consulting, Manufacturing, Power and Financial Services.

ACADEMIC STRUCTURE



BUSINESS - IIM CALCUTTA

Business acumen is necessary at every stage of an analytics project, starting from asking the right questions to understanding their implications and coming up with strategies based on analysis.

Students of PGDBA have been nurtured to use their grasp of statistics and computing to generate key insights for business at IIM Calcutta.

COURSES

- Financial Risk Management
- Business Economics
- Strategic Management
- Marketing Management
- Organizational Behavior
- Managerial Communications
- Pricing & Revenue Optimization
- High Frequency Trading & News Analytics
- Computational Finance
- Supply Chain Analytics
- Business Accounting and Banking Analytics
- Healthcare Analytics
- Product Analytics



STATISTICS - ISI KOLKATA

Statistics is the plinth on which every analytics project rests. Statistical inference techniques are required to understand data at hand plus statistical modelling is basis of all machine learning methodologies. PGDBA students have been trained by prominent faculties at ISI to set the right foundation for analytics knowledge.

COURSES

- Probability and Stochastic processes
- Statistical Inference
- Multivariate Analysis
- Statistical Structures in Data
- Linear Regression
- Time Series Modelling
- Linear Algebra
- Econometric Methods
- Advanced Predictive Modelling
- Analytics in Business Forecasting
- Categorical Data Analysis



COMPUTING - IIT KHARAGPUR

Big Data technologies have evolved by leaps and bounds in past decade and with it the deluge of data has made it challenging for firms to grapple with sheer volume, velocity, dimensionality and variety of data.

PGDBA students have gained skills for algorithmic thinking and have been rigorously trained in machine learning applications and theory at IIT Kharagpur.

COURSES

- Algorithm Design & Analysis
- Machine Learning
- Database Management Systems
- Hadoop MapReduce
- Information Retrieval
- Complex Networks
- Business Data Mining
- Data Science Laboratory
- Computing for Data Science

FACULTY SPEAKS



Sourav Sen Gupta,
Lecturer, ISI Kolkata

Students could easily comprehend and explore complex real-life problems in data analytics. They tackled involved course projects related to recommendation systems, Bitcoin pricing, reinforcement learning, risk prediction, and insurance claims. To my surprise, some of the projects were motivated from real-life data from companies, proving just how industry-ready and professional the students were.



Ritu Mehta,
Associate Professor,
Marketing, IIM Calcutta

PGDBA is one of the most rigorous experiments in the country in recent times to serve the managerial talent in the rapidly emerging field of data-driven business insights and solutions. My sessions in marketing management were a rewarding experience for me. The participants were able to provide rich perspectives with in-depth analysis to the business problems.



Animesh Mukerjee,
Associate Professor
Department of Computer Science and
Engineering, IIT Kharagpur

I was very impressed by the PGDBA project groups and many of them have done the work with such proficiency that these could be easily converted into top-tier publications with a little more concentrated effort within the next six months



Bivas Mitra
Assistant Professor,
Department of Computer Science
& Engineering, IIT Kharagpur

The class was engaging and the students were interactive, forcing me to delve deep into the topic. I was surprised to see the student involvement in the class, albeit coming from diverse background and expertise. The maturity of the students was clearly evident.

FACULTY SPEAKS



Debapriyo Majumdar
Assistant Professor, ISI Kolkata

I was amazed by students' strong motivated attitude towards learning and applying their knowledge. Apart from excelling in theory, their performance in course projects convinced me that the class is very passionate and enthusiastic about data analytics.



Sanjoy Datta,
Head Marketing Research, ITC Limited

This bunch stands out on one feature. They want to make an impact. The commitment and focus is single-minded. This is not a subjective impression. They participated in PsyFing, my psychometric testing tool as part of the lecture on power of implicit data. This group is unlike any other group I have tested before.



Sujoy Bhattacharya,
Associate Professor,
Vinod Gupta School of Management

I had a great time taking the Data Science Lab Course for the PGDBA students. I found them bright, inquisitive and hard-working. They showed keen interest in the subject and asked non trivial questions. I believe these boys and girls are one of the best in Asia in the Analytics field.



Rabindranath Bhattacharya
Visiting Faculty, IIT Kharagpur

I can tell that they are some of the most enthusiastic and intelligent students I have ever interacted with during my long teaching experience in many management Institutes of repute. I would always remember the group for their dedication and seriousness with which they pursued the course

INTERNSHIP AND PLACEMENT 2017 BATCH STATS

Internships

The fourth and final semester of the course is designed to give industry exposure to the students. Students are required to undergo a mandatory 5-6 month internship to apply the concepts learned in class. The internship semester is a unique feature of the course and helps students to test the waters before they deep dive in the realm of analytics.

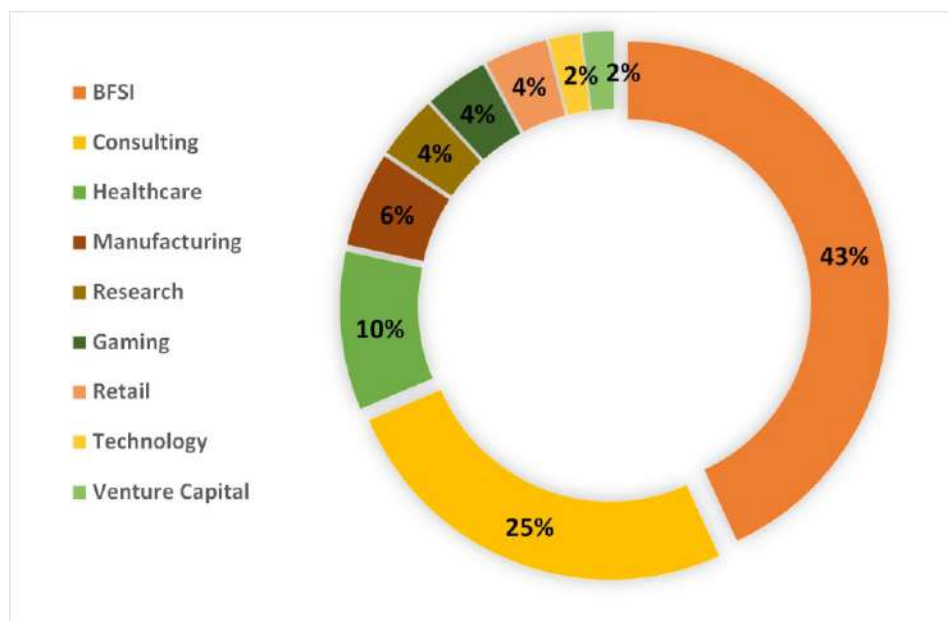
Placement Overview of the first batch

Students from the premier batch of PGDBA experienced a successful placement process as companies from various industries participated and handpicked candidates suitable for both data-driven and business driven analyst roles. Though it was only the first ever placement process of the program, it witnessed involvement from fortune 500 companies such as American Express, Walmart Labs, United Health Group, JPMC. Each company offered a unique role which ranged from technical roles of Senior Data Scientist to managerial roles of Analytics Manager.

INTERNSHIP PLACEMENTS

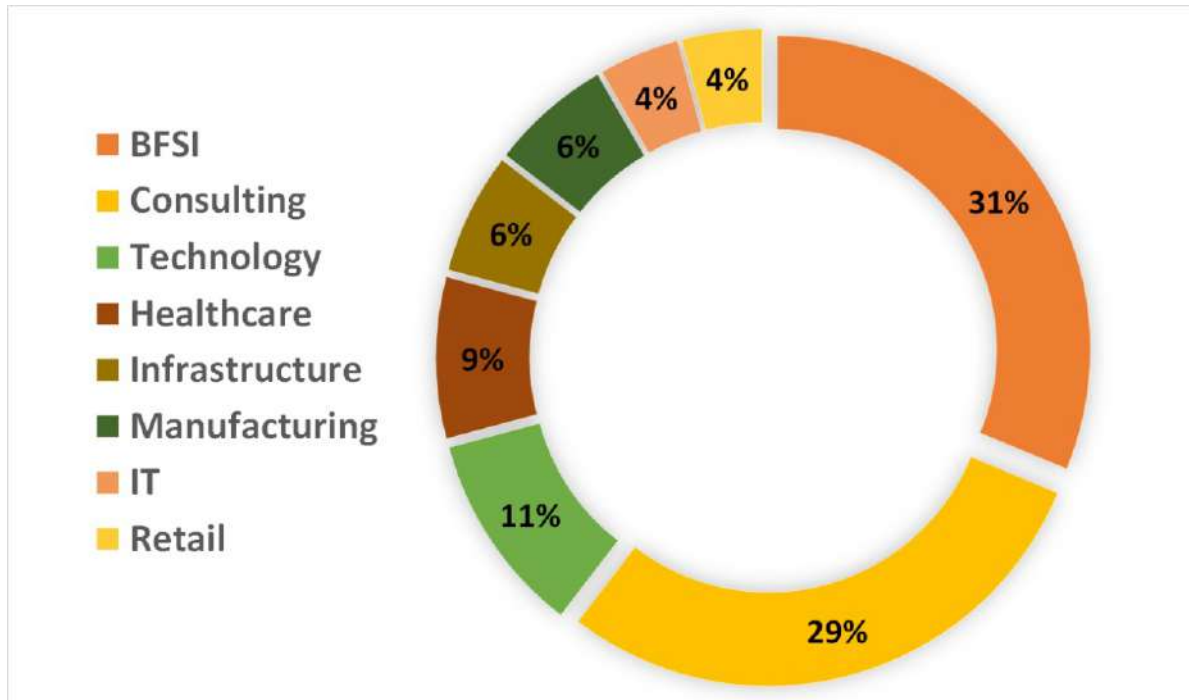
Monthly Stipend in INR		
	DOMESTIC ONLY	INTERNATIONAL INCLUDED
Average Stipend*	70,000	77,300
Median offer made	75,000	75,000
Average of top 50%ile	89,500	100,000
Median of top 50%ile	85,000	87,600

* Stipend not taking into account the value of benefits such as accommodation, travel etc.



FINAL PLACEMENT

Annual Salary in INR Lakhs		
	DOMESTIC ONLY	INTERNATIONAL INCLUDED
Average Salary*	17.14	18.07
Median offer made	17.70	17.70
Average of top 50%ile	20.14	21.78
Median of top 50%ile	19.23	19.27



BATCH STATISTICS:



Batch Size

51



Female Students

6

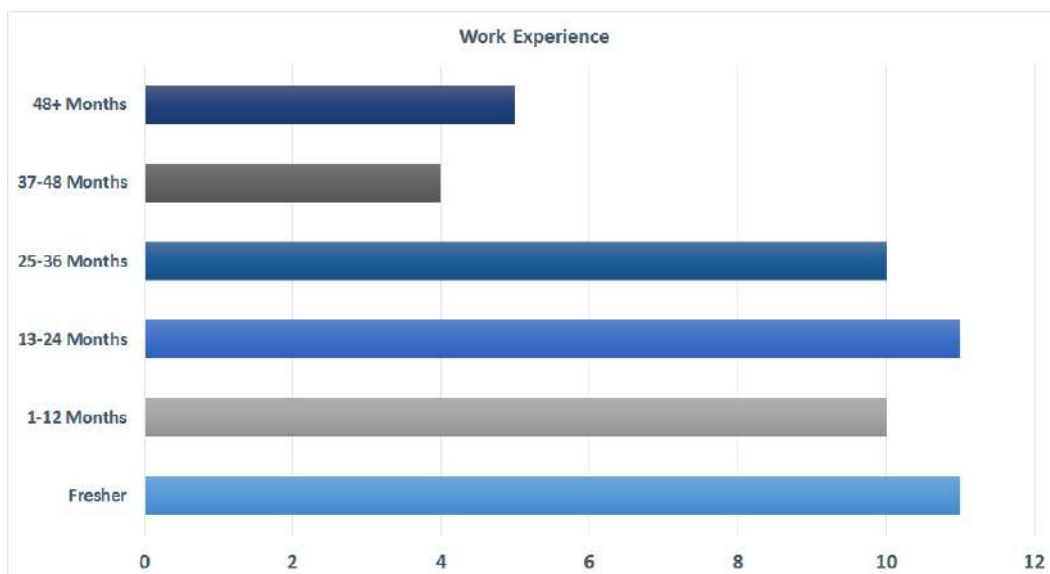
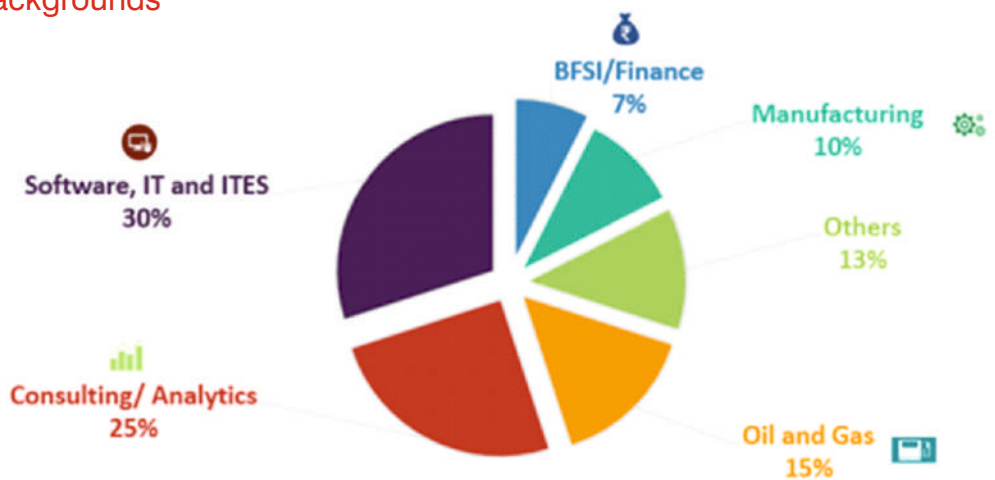


Average Work Experience
(Months)

23

The batch of PGDBA 2016-18 has a strong academic background with 55% of the batch being graduates from tier-1 institutes (IITs, NITs, BITS, IISc).

Backgrounds



SELECT ANALYTICS PROJECTS:

BFSI

- Recommend personalized banking products based on customers' historical data
- Predict probability of default of a bank's customers
- Predict severity of claims for insurance firm
- Detect laundering patterns in transaction data
- Predict credit rating of companies using historical financial ratios

Techniques: Hybrid recommenders, XGBoost, Random Forest, ANN

SOCIAL MEDIA AND NETWORKS

- Model time dependent influences between users on Twitter using recurrent neural networks
- Classify question pairs as duplicates on Quora by modeling semantics
- Detect dynamic communities in real networks like citation networks
- Model trust in signed networks like Wikipedia, Slashdot
- Query expansion on Twitter Nepal earthquake dataset

Techniques: LSTMs, word2vec, Louvain algorithm, Troll Trust Model, WordNet

MANUFACTURING AND SALES

- Predict longitudinal crack on the surface of a slab using 170 casting variables
- Forecast sales on Alibaba's online platform for its 2000 merchants for a period of 14 days
- Forecast market size for diesel generators using historical and macroeconomic data
- Forecast wholesale prices for agricultural commodities not traded on commodity exchanges

Techniques: LSTMs, Dynamic Regression, SVR, Random Forest

AI AND DEEP LEARNING

- Implement a Black Jack Player with reinforcement learning using Monte Carlo Method
- Build a ChatBot for coherent domain specific interactions on Ubuntu corpus
- Classify and tag 8million YouTube videos using bot audio and video
- Build a model to count and localize objects of interest in images

Techniques: LSTM based retrieval, CNN, Short time Fourier Transform

HEALTHCARE

- Predict survival of patients suffering from Hepatitis
- Predict seizures from long term brain activity recorded in EEGs
- Predict lung cancer using axial CT scans from 150GB of image data
- Predict risk of developing CVD, classify as STEMI and NSTEMI and perform survival analysis on heart patients

Techniques: SVM, RNN, CNN, XGBoost, Random Forest

DIGITAL ANALYTICS

- Recommender System for movies based on user ratings on GroupLens
- Relation between text descriptions by hosts and trust scores given by guests on Airbnb
- Generate tags for restaurants based on unlabeled photos on Yelp
- Predict number of inquiries for a new listing on RentHop

Techniques: Autoencoders, SVD, Kernel regression, CNN, transfer learning

INFORMATION RETRIEVAL

- Answer user-specific queries using a 'mixture of experts' model from user reviews
- Extract catch phrases, clustered legal documents and derive their summaries from a dataset of 400 SC case documents
- Measure document similarity with Word Movers Distance metric that uses word2vec
- Develop a model to extract answers from a passage for given questions

Techniques: Word2Vec, Okapi BM25+, Dim reduction, tf-idf, LexRank

TRADING

- Model price movement of Bitcoins and propose a strategy for trading
- Predict %change in stock prices for 198 securities using 244 features (sentiment scores) with ML models
- Model the effects of social sentiment on stock prices

Techniques: Bayesian regression, trend clustering, HMM, DTW, NB classifier

PROFILE OF STUDENTS



ABHILASH FULKAR
Mechanical Engineering
IIT Bhubaneswar

Goodbox
12 months

As an Analyst in a start-up, Abhilash has witnessed the impact of Data-Analytics on the Business's growth. Currently, he is working on Deep-Learning architecture to tag the youtube-videos. While at IIT, he was the Governor and Design Core-Head of the institute's Cinematic Society and the socio-cultural-festival respectively. You'll be damned to find out how good a guitar player he is.



ADHI NARAYANAN Y R
Electronics & Communication Engineering
SRM University

Tata Consultancy Services
37 months

Adhi Narayanan, recipient of cash prize at ISI-Kolkata for excellent academic performance, is passionate about mathematics and programming. He has 3+ years of rich and diverse work experience in the areas of Information Technology and BFSI taking on both technical and managerial roles. Adhi has consistent and excellent academic track record. He has qualified for national level Olympiads. Adhi has done analytics projects in the domain of HealthCare, Law and Econometrics.



ADHIKARI VUSHESH BABU
Information Technology
ABV IITM, Gwalior

Vushesh has pursued an internship in the field of Modern Cryptology at Indian Statistical Institute Kolkata during the summer of 2015. He holds a passion for coding and design of algorithms. He has solved several business problems with machine learning applications and also helped in reducing the complexity of various problems.



ADIMULAM MAHESH BABU
Aerospace Engineering
IIT Kharagpur

ZS Associates
11 months

Having a knack for taking up challenging problems, he completed his engineering master's thesis using Optimization Techniques. Working at ZS piqued his interest in Analytics, leading him to join this course where he was drawn towards the challenges involved in Image Processing and Natural Language processing. Apart from academics he has been an active participant in Inter-IIM and Intra-IIT sports competitions achieving multiple laurels. His interests include playing Guitar, discussing Global Politics.



AJIT KUMAR VORABOINA
Engineering Physics
IIT Bombay

Nextrack Technologies
29 months

During his undergraduate years, he interned at CERN where he first experienced data driven solutions. At IITB he served as the General Secretary of his Department and Technical Councilor of his Hostel. Ajit is a sports enthusiast having multiple achievements at Inter - IIT and IIM levels. He loves mountaineering and cooking. Having worked in both Analytics and Business domains, he is passionate about how Machine Learning can influence lives around the world.



ANSHUMAN ROY
Electronics & Communication Engineering
Punjab Technical University

Tata Consultancy Services
47 months

A CBSE merit certificate holder for securing top 0.1 percentile in mathematics, Anshuman was appreciated by management and client earning many gem points for handling various modules of TCSBancs Software. He is a quick learner and ardent in analytics and has secured a position in top 10% in many competitions by Analytics Vidhya and Kaggle involving time series forecasting. He is also an avid follower of current affairs.



ANUSHREE PARSAI
Electronics & Communication Engineering
BITS Pilani - Hyderabad Campus

ARM
23 months

Anushree is a meritorious student. She was awarded BITS scholarship for perfect 10 GPA and cash prize at ISI for excellent academic performance. She has received several recognitions at workplace, including "Bravo" award at ARM and "Letter of Appreciation" at BHEL. Apart from academics, she has organized and acted in various stage plays as a member of the BITS Dramatics club. Her interests include NLP, Machine Learning and Computer Vision.



APOORV AGRAWAL
Mechanical Engineering
NITK Surathkal

United Health Group
30 months

Apoorv was much appreciated by the management at UnitedHealth Group for ETL implementation of the commercial risk adjustment project from the scratch. He is data science enthusiast & built a risk predicting model which would evaluate the probability of the mid-sized corporates to fall into economic stress in the future. He had also developed a model that automatically tags restaurants with multiple labels using a dataset of user-submitted photos.

PROFILE OF STUDENTS



APOORVA NIGAM
Mechanical Engineering
BIT Mesra

Tata Motors
32 months

With 32 months of industrial experience in E2E project management and several recognition from his previous employer, Apoorva was responsible for Capacity planning which involved projects related to analyzing data, predicting demand, and thereby executing Capital Expenditure Budget. A highly motivated individual, he has showcased his analytical and technical skills in his various multidisciplinary projects to solve complex, data-driven problems that have a Business impact.



DAWARE KAUSTUBH MANOHAR
Electrical Engineering
COEP, Pune

Fiat Chrysler Automobiles
11 months

Kaustubh is passionate about data science and keen to solve business problems with data driven approach. He is interested in machine learning and statistics and intends to pursue these interests with value addition to others. He has done different projects covering topics like multi class classification, commodity price prediction, chatbot design and regression on compositional data.



DEEP GOEL
Mechanical Engineering
IIT Kanpur

Deep became interested in Data Science while heading the Students Robotics Club at IIT Kanpur where he worked with various Machine learning tools and techniques to train the robots. He has been involved in diversified data analytics projects in health care, finance, law, supply chain and is highly motivated to apply the existing techniques and develop new methods in these fields. He is also a member of Actuaries, India.



DEEPANSHU SINGH
Computer Science & Engineering
UPTU

Samsung Research Institute
8 months

District topper in 12th board exams, Deepanshu, is a coding enthusiast and an active coder on HackerEarth. He is well-versed with C, C++, python and PHP. He has worked on a variety of projects ranging from mixed models in regression to NLP. He is currently interested in developing machine learning techniques for building data-based decision support systems for business processes.



DEEPESH WADHWANI
Mechanical Engineering
VNIT Nagpur

Tata Motors
29 months

Deepesh comes from an extensive background in operations and business management. After joining PGDBA, he achieved world rank 3 in a cost reduction competition organised by SMS Group and completed projects in the field of customer & text-data analytics. As the Class Representative of PGDBA, he is continuously striving to increase the outreach of the program. He heads the Student Body to represent the course in all three institutes.



DHRUBAJYOTI DUTTA
Chemical Engineering
PEC Chandigarh

Technovation Engineering Services
12 months

Explored Energy sector as a process engineer, Dhrubajyoti was also involved in E&P services, oil processing and oil field services. Proclivity towards strategic decision making drove him to PGDBA where he is exploring new fields like image processing, natural language processing and data driven financial decision making. An ardent sports lover, Dhrubajyoti takes pride in representing his state and being a national champion in swimming. His eager beaver nature made him appear for FRM



GAURAV GARG
Production & Industrial Engineering
IIT Roorkee

ONGC
44 months

Gaurav has a plethora of operations experience in challenging & complex environment of Oil Exploration & Production. During PGDBA, he has worked on variety of practical data science problems pertaining to recommender systems, computer vision, stock prediction & natural language processing. His primary interest lies in building solutions to assist the business decision making through analytics and machine learning. He is a CFA Level 3 candidate & a trekking enthusiast.



GUNJA AGARWAL
Computer Science And Engineering
Jaypee University of Engineering & Technology

As a three-time merit certificate holder at college, Gunja was awarded 'School Mathematics Topper' in intermediate. Her team was ranked third internationally at "SMS Digital Lab, 2016", data analytics challenge. As an intern at SEBI her work will be adopted for "Surveillance Policies". She was literary club event manager and tech-fest coordinator. Being a winner of state level Code Mania, she is passionate about deep learning and NLP.

PROFILE OF STUDENTS



HARSH KUMAR
Chemical Engineering
IIT Delhi

Harsh's proclivity towards analytics began while interning at Tata Steel R&D which eventually fetched him a letter of recommendation. He has worked on several analytics projects including Deep Learning for image analytics, Machine Learning applications for healthcare and Collaborative Filtering for online product ratings etc. He likes participating in analytics hackathons. Apart from studies, he is a dramatics enthusiast and has performed in many street play events.



HIMANSHU GOYAL
Production & Industrial Engineering
IIT Delhi

Global Analytics
58 months

Himanshu started his career as a business analyst in the collections division of his firm and left there as a manager of risk analytics. He has been awarded with 'Individual Performer' for his outstanding contributions across multiple teams and is now continuing to study with the same zeal as he received a merit-based scholarship from ISI. Besides Statistics and Machine Learning, he also loves writing poetry and articles.



HIMANSHU JAIN
Electronics & Communication Engineering
NSIT, Delhi

KPMG India
35 months

A consistent academic performer, Himanshu has three years of rich industry experience in the field of analytics. He received a KPMG 'Kudos' award for his BI automation work at the client location and was well appreciated at partner level. His interests align with developing ingenious solutions for financial and retail industries. He was associated with Kilkari Rainbow Home, an NGO dedicated for the betterment of the underprivileged.



ISHITA LOHIA
Computer Engineering
College of Technology Pantnagar

Tech Mahindra
12 months

Ishita handled global clients and delivered an "Automation tool" independently at Tech Mahindra. Recently, her team secured third spot internationally at SMS Digital Data Challenge. She won several inter-college chess competitions and also secured 3rd position in Iconoclasm, a national level case study contest. She was a lead vocalist of "Rock Band" at her workplace. Her interests are NLP, Deep Learning and Computer Vision.



SUMIT KALASKAR
Computer Science & Engineering
Pune University

From heading school Student's Council, to earning the title of 'Emerging Player' at IIM Calcutta, Sumit, the present Placement Coordinator of PGDBA program is an approachable & strong leader who is a qualified Mathex Scholar & recipient of NTSE, MTSE & government scholarship for securing 7th position in board exams. He is skilled at predictive modelling & data mining which helped him win Bronze at an international Data Challenge by SMS Group, Germany.



KALLU CHANDRA MOULI
Electronics & Communication Engineering
NIT Trichy

Tata Consultancy Services
23 months

Kallu Chandra Mouli joined PGDBA program in Fall 2016. He received his Bachelors degree from NIT Trichy in Electronics and communications engineering. After graduating in 2014 he worked at TCS as Database systems engineer for 23 months. His primary areas of interests are applications of data analysis and machine learning in social media, E-commerce and retail industries.



KAPIL TRIPATHI
Electrical Engineering
NIT Allahabad

Trident Group
24 months

A self-motivated and determined person, Kapil will represent India in Data Science Game 2017 in Paris. His exceptional performance in Trident group made him reach the Manager position within 9 months of first job. Kapil has been a consistent performer in academics and is an avid data science enthusiast with his team winning two national level data science competitions. Kapil has also served as a Placement Representative in NIT Allahabad garnering appreciation for his responsible work.



KHUSHIRAM SHARMA
Mechanical Engineering
IIT(BHU) Varanasi

BPCL
36 months

Khushiram forayed into field of analytics while working on a b-plan of e-commerce for generic medicines in pan-IIT competition. Implementing automation project, he enabled data analysis of retail outlets from remote locations when he was part of 'BPCL First' team assessing the complexity and risks of physical energy market. Switching to new oil 'data' he now works on projects involving high dimensional regression, NLP and deep learning.

PROFILE OF STUDENTS



MUKUL SONKER
Electrical Engineering
IIT(ISM) Dhanbad

Mukul has a certificate of Bloomberg Market Concept(BMC) with a score of 93 and score of 460 in Bloomberg Aptitude Test(BAT)2015. He was a finalist of Data&Beyond at Vista 2016 - IIM Bangalore, has done a project on deep learning and is now working on Query Expansion. He had served as Public Relations Representative for Shaastra 2014, IIT Madras and was also an editor of the college newsletter at his undergraduate school.



NAVEEN MITTAL
Computer Science & Engineering
KNIT Sultanpur

Naveen attained 1st rank in IIM Calcutta and 3rd nation-wide in Capstone Global Challenge 2017. He was Lead Placement Representative and helped in securing 60% more offers for his batch than previous batch. As Chairperson of CSI students' chapter he has always encouraged his peers and guided his juniors. He received merit scholarship in college for his excellent academic records. A coding enthusiast, he has worked on projects involving machine learning with real-life business implications.



NEHA SINGH LOHCHUBH
Computer Science Engineering
NSIT, Delhi

Royal Bank of Scotland
23 months

A debater since school, Neha graduated among top 6% in a batch of 150. With strong technical and problem-solving skills, she kickstarted her career as a software engineer with RBS. Between getting recognized for her hardwork, volunteering for CSR events and organizing techstocks, she spent 2 years exploring the world of investment banking. Driven by analytical mind and aspiration to deliver strategic business solutions, she is currently pursuing PGDBA.



PALASH R TATTE
Production & Industrial Engineering
IIT Delhi

QuintilesIMS
23 months

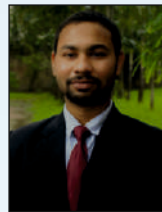
Palash was in top 0.2% in JEE 2010. He was among top two in DFacto 2013: case competition by PwC-Diamond at IIT Delhi. His projects at work involved Sales forecasting and Physician targeting. He is interested in applying his statistical modelling, machine learning and network analysis skills on real world problems. He has represented IIT Delhi and IIM Calcutta in cricket and was awarded Emerging badminton player of IIMC.



N MAHESH
Electronics & Communication Engineering
Vignan's Inst. of Information and Technology

Tata Consultancy Services
50 months

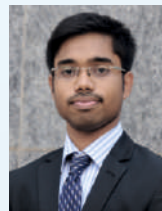
Mahesh worked as a developer & data analyst for 4 years in BI domain where he performed various data processing, ETL and data integration-migration tasks. He received awards from clients (A C Nielsen, Marsh) for the high quality work in BI domain. He is interested in utilizing his analytical and technical skills focusing on Data Visualization and machine learning methods for exploring its applications in the field of Agriculture & IT.



NEETESH JALORIA
Aeronautical Development Agency, MOD
IIT(BHU), Varanasi

Aeronautical Development Agency
34 months

Neetesh worked as a Scientist in the project LCA TEJAS. The coverage included Process & Quality Control with Testing & Certification of SMS LRUs, Aircraft Integration Activities for Flight Clearance, Real Time Flight Test Monitoring, FTI & FFR Data Analysis, SMS Architecture Designing of LCA Mk-II. He has done projects on Forecasting and Text mining in PGDBA. He's also a social worker, motivational speaker, music lover, running enthusiast, and interested in sustainable development and cultural diversity.



P PRUTHVI KIRAN
Electronics & Communication Engineering
Shiv Nadar University

Pruthvi was ranked in the top 0.5%ile of the state level entrance exam for engineering. Going beyond academics, he headed the cultural fest all through his graduation. His favourite hobbies are chess and photography. He is interested in applying machine learning and data mining techniques, especially in financial services.



PARAG SANJAY BHANDARKAR
Electronics Engineering
VJTI, Mumbai University

Diebold Systems
23 months

Parag is a distinctive combination of Academic Performance, Managerial Capability and Professional Experience. He received 3rd Branch Rank in B.Tech. and 29th State Rank in MHCET. He authored the IEEE paper on Computer Vision. Currently, he is a Placement Representative of PGDBA and was a General Manager of VJTI's Educational Initiative. He was acclaimed with Diebold's Best Innovation Award. He recently topped AnalyticsVidhya Clustering & Dimensionality Reduction Quizzes.

PROFILE OF STUDENTS



PRAKHAR GUPTA
Instrumentation Engineering
IIT Kharagpur

Reliance Industries
22 months

Prakhhar has worked for Reliance industries limited for 22 months as a procurement manager. He saved Rs. 6 crores in procuring services and material contracts for several plants of RIL by strategic renegotiation on several terms. During PGDBA, he has undertaken projects on Retrieval based Chat-bots, Signed network analysis, Recommendation System, Time series forecasting and Bitcoin price movement prediction. He has also passed FRM Level 1.



PREM KRISHN
Electrical Engineering
IIT (BHU) Varanasi

Tata Steel
54 months

Prem scored perfect 100 in Maths in CBSE class 10th. His knack for mathematics helped him achieve First rank in robotics and pursue project in Neural Networks during his IIT days. He became interested in Analytics while taking strategic decisions using SAP data and past interruption trends at Tata Steel. He is certified in SAS programming and has pursued projects in Deep Learning, Social Networks and Time Series analysis during PGDBA.



RAHUL KUSHWAHA
Electronics & Computer Engineering
JNVU, Jodhpur

An Engineering graduate fresher with good analytical skills and project experience. He was selected for Employability Enhancement Training Program (EETP) jointly run by AICTE and BSNL where he received Silver, Gold and platinum certifications for excellent performance. He has done internships in ISRO and DRDO. He has experience on machine learning projects with focus on Image processing and Natural Language Processing (NLP). His hobbies are badminton, cricket, music and chess.



RANJIT KUMAR M
Computer Science & Engineering
JNTU Hyderabad

CA Technologies
11 months

Prior to joining this program, he worked as an Associate Software Engineer in the Business Unit - Project And Portfolio Management at CA Technologies, and as a database administrator during his internship in the same BU. He was elected as the Chairperson of CSI (Computer Society of India) student branch in his college. He is interested in Machine learning problems and applications, especially in the field of recommender systems and natural language processing.



SAKSHI AGARWAL
Biochemical Engineering & Biotechnology
IIT Delhi

Fractal Analytics
23 months

As a consultant for BI&Analytics in CPG industry, Sakshi has delivered global Sales and Marketing Operation projects for multinational clients. She was also awarded MHRD scholarship for her M.Tech. research project. With a senior diploma in Kathak and cognizance of Hindi literature and poetry, she was also a Core Team Member of national level technical festival. Her academic interests include NLP and network analysis to scale on technological businesses.



SARGUROH WAQAR AHMED
Chemical Engineering
IIT Roorkee

Toppr.com
18 months

Waqar has a varied work experience from refinery operations to a series A funded startup. He was awarded scholarship for academic excellence at ISI. He is the current Placement Representative of PGDBA and was Executive Editor of college literary magazine. His 3-membered team was runners-up in a nation-wide Machine Learning hackathon hosted by Societe Generale. His projects involve NLP with neural networks, forecasting e-commerce website sales and Bitcoin price movement prediction.



SASANK AMAVARAPU
Biological Sciences
IISc Bangalore

Sasank has been active in sports and life sciences all throughout his life. Acquiring Bachelors in Biological Sciences from IISc, Bangalore and also by achieving commendable milestones in sports, he is keen in investing this experience and knowledge in healthcare and sports and is highly motivated towards applying analytics in these fields. Recently, he has attended the Annual Sports Analytics conference at MIT Sloan, School of management.



SAURABH KUMAR
Instrumentation & Control Engineering
NSIT, Delhi

Technip India
33 months

Saurabh was awarded Student Of The Year by TOI for academic year 2007-08, and holds AIR-449 in Science Olympiad, 2009. Because of his interest in mathematics he started giving Actuarial exams and have qualified five of them till now. He is interested in utilizing his analytical and technical skills to solve data driven problems in business and financial services. His areas of interest include NLP, Complex Networks, Deep Learning and Financial Mathematics. His hobbies include trekking, meditating, playing poker and Table tennis.

PROFILE OF STUDENTS



SHIVAM ARORA
Metallurgical Engineering
IIT(BHU) Varanasi

Fractal Analytics
11 months

During his stint at Fractal Analytics, Shivam worked on developing innovative analytical solutions across CPG and Insurance domain. At IIT(BHU), he served as the event manager of Entrepreneurship Cell and actively volunteered for Kashi Utkarsh, a social club. Recently, he was a member of winning team in MHRD's Smart India Hackathon 2017. He is a badminton enthusiast and intently follows Coursera. His projects include Recommender Systems, NLP with neural networks, Bitcoin Price Dynamics.



SHREY MANISH
Mechanical Engineering
NIT Allahabad

Futures First
11 months

An Economics and Finance enthusiast, Shrey is a voracious reader. He slogged as a derivatives trader before finding his calling for tinkering with data. He aspires for a role which involves finding and implementing data driven insights to businesses. Shrey is currently working on various projects involving deep learning in NLP, complex networks and time series forecasting. He is also an avid quizzier and has podium finishes in various quizzes.



SIDHARTH KUMAR
Mechanical Engineering
NIT Patna

Accenture Services
5 months

With his analytical capabilities, he succeeded in NTSE, Maths and Science Olympiads. He also had offers to join new IIMs-PGP batch. During his short stay with Accenture, he worked for a US-based software client. He is a member of Entrepreneurship-Club of IIM-Calcutta. He has proven his skills in various collegiate fest. His projects include Chatbots, Stock-market movement prediction. He likes spending time on Kaggle and playing cricket & badminton.



SOMA SRIKANTH
Electronics & Communication Engineering
Sreenidhi Institute of Science and Technology

Cognizant
32 months

Srikanth is the recipient of 4 awards at Cognizant which also includes "The best team" award. He has won second prize in data analytics competition conducted by Impulse, IIT Kharagpur. His interest in statistics and computation always motivates him to uncover insights from existing data sets, and to acquire skills of machine Learning. His interest in Health Care and Finance made him choose projects in these domains for PGDBA.



SUBHODEEP DEY
Chemical Engineering
NIT Surathkal

Reliance Industries
35 months

World rank 4 holder in DSG, a top one percentile achiever in AIEEE, Subhodeep has an exemplary passion for technology. At Reliance Industries, he showcased his prowess in Engineering and Analytics, boosting his unit's profits by more than 2.33 crores p.a. The PGDBA programme helped him delve into many applications of Machine Learning, Deep Learning in conjunction with various domains like Finance, Marketing, and NLP.



GOURABATHUNI SAI SANDEEP
Mining Engineering
IIT Kharagpur

As an engineering student and a football enthusiast, Sai Sandeep ranked among top 1 percentile in IIT-JEE'11, top 3.1 percentile in CAT'16 and secured AIR-49 in GATE'16. While working on challenging projects and hackathons, he has acquired key skill set in areas of Recommender Systems, Deep Learning, Asset Pricing and Fraud Detection in Banking Sector. He is looking forward to design intelligent systems for real-world business problems.



SUDHAKAR P
Electronics & Instrumentation Engineering
Government College of Technology,
Coimbatore

Aspire Systems
49 months

Being a member of the advanced technical group(ATG) of his company, Sudhakar has an exposure to all the phases of product development. Also, his involvement in extending Google analytics library developed his interest in analytics field which eventually pursued him to join PGDBA. Apart from his special interest in video analytics, he looks forward to working on improving the quality of living, betterment of public policies and rural development.



TAPAS RAY
Mechanical Engineering
VSSUT, Burla

Maruti Suzuki
46 months

A CBSE merit certificate holder and a fast learner with a mathematical mindset equipped, Tapas has secured 24th position in Junior Mathematics Olympiad. During his stint at Maruti as an Assistant Manager, he has received "Achievement Award" for exceptional performance. His current interest lies in data science research and its application in Business Analytics, financial industries. He has been ranked 13th in an international data science competition hosted by MIT.

PROFILE OF STUDENTS



V SWAPNIKA
Chemical Engineering
IIT Kharagpur

Crosslink Analytics
22 months

Swapnika started her foray in the domain of analytics, with her tenure as a big data analyst at an MNC and subsequently worked at a B2B business intelligence start-up. A strong academic performer throughout, she is a recipient of the coveted CBSE scholarship. She served as a core team member of techno-management symposium at IIT Kharagpur and is a trained Bharatnatyam dancer. Her areas of interest are NLP, Deep Learning, and Computer vision.



**VYANKATESH RAJENDRAKUMAR
PORWAL**

Electrical Engineering
IIT Kanpur

Samsung R&D Institute
23 months

Vyankatesh, a consistent academic performer, has prior work experience in Wireless Communications. He is co-author of two research papers on Cognitive Algorithms. He secured AIR-571 in IIT-JEE'10. He undertook projects related to predictive healthcare as well as financial modelling. He is currently Student member of Institute of Actuaries of India. He has the passion for reading and follows socio-political issues.



YASHAS NATARAJ BASAVAPATNA
Information Science & Engineering
PES Institute of Technology,VTU

Cisco Systems
100 months

Yashas obtained his BE(ISE) from PESIT, Bangalore. Subsequently, he had stints at Lucent Technologies and Cisco Systems Inc, working in Software Development. He finished his MS(CS) from the National University of Singapore where he published several papers in International Conferences subsequent to which he was with Juniper Networks. He was most recently CTO of HappytriplIndia, Lead India anchor of Smartgrow and handled Corporate Relations for Youth for Seva.

NOTABLE ACCOMPLISHMENTS

- First Runners Up at Smart India Hackathon 2017. Proposal under implementation with membership from ICMR (Indian Council of Medical Research)
- World Rank 3, SMS Digital Data Challenge, Dusseldorf, Germany
- World Rank 4, International Data Science Games 2017
- World Rank 17, Capsim Business Strategy Challenge, 2017
- First Runners Up, Machine Learning Hackathon by Societe Generale
- Joint Rank 1, Cisco Data and Beyond at IIM Bangalore
- World Rank 13, DrivenData competition 'Pump it Up' by Tanzanian ministry of water in collaboration with MIT
- World Rank 42, Kaggle competition for epileptic seizure prediction

STUDENT LIFE



Students of PGDBA get a unique experience of staying at three diverse campuses with each of them offering its unique set of campus activities.

Life at ISI

In the first semester at ISI, students of the current class participated in inter-college football events with the institute's team and also organised a badminton tournament in the campus. Some students of the batch were also proud winners of a literary event organised by ISI on Hindi divas. ISI is a hub for academic workshops and talks delivered by distinguished faculty and academicians from across the world. Students had the opportunity of attending Dr. Cedric Villani's talk among many other such interesting events.





Life at IIT

The second semester at IIT Kharagpur is quite a contrast in terms of scale and magnitude of every event as compared with the much more quaint experience at ISI. In this semester students had the opportunity of participating in both a technical as well as cultural festival - Kshitij and SringFest. Some students were winners of quiz events during these festivals and won Math quiz events at the hostel level. This batch was also lucky to be present when Kharagpur hosted Google CEO Sundar Pichai on campus. PGDBA students made their own mark by organizing a cycling event on campus. Some students also represented the hostel team in inter-hall sport events. In the management festival hosted at VGSOM, two teams from PGDBA were proud winners of competitions.



Life at IIM

At IIM Calcutta, students of PGDBA are also on the institute's sports team and participated in two inter-IIM events. The class also came second in the inter-section sports meet during its early days on campus among other individual awards. Students are a part of the E-cell and Marketing Cell at IIM Calcutta. The campus also has extensive sport facilities including a fully equipped kayaking setup.



CHAIRPERSON'S DECK



Biswabrata Pradhan

(Associate Professor, SQC and OR unit, ISI Kolkata)

An excellent research faculty at ISI Kolkata, professor Biswabrata completed B.Sc (Hons) followed by M.Sc in Statistics from University of Calcutta. He then completed M.Tech in Quality, Reliability and Operations Research from ISI and PhD in Statistics from ISI in 2010

Prabina Rajib

(Professor, VGSOM, IIT Kharagpur)

Professor Prabina Rajib joined IIT in 2000 after completing Ph.D. from IIT Kharagpur. With vast teaching experience and responsibility of VGSOM – IIT Kharagpur as acting dean, she has also taken charge of PGDBA program for IIT.



Rahul Roy

(Professor, Management Information Systems, IIM Calcutta)

Professor Rahul Roy completed his B.Tech (Hons) in mechanical engineering at IIT Kharagpur and went on to pursue M.Tech in Systems Engineering and Management followed by PhD in Industrial Management, both at IIT Kharagpur. He is now supervising the PGDBA program as the chairperson.

Contacts: Placement Representatives

Sumit Kalaskar
+9198609 69625
pgdbaplacements@iimcal.ac.in

Waqar Sarguroh
+91 95682 65328
pgdbaplacements@iimcal.ac.in

Parag Bhandarkar
+91 98693 39171
pgdbaplacements@iimcal.ac.in

Yashas Nataraj B
+91 96117 78226
pgdbaplacements@iimcal.ac.in

COURSE	FACULTY	CREDENTIALS
PRE-SEMESTER IIM CALCUTTA		
Organizational Behaviour	Prof. Leena Chatterjee Prof. Abhishek Goel	M.A. (Psy.), Ph.D. (IIT Kanpur) Fellow (IIM Ahmedabad), MBA (FMSR, AMU)
Marketing Management	Prof. Ritu Mehta (Ms.)	Ph.D. (IIT Kanpur)
Contemporary Business Analytics	Prof. Indranil Bose	M.S. & Ph.D.(Purdue University)
Financial Reporting & Analysis	Prof. Manju Jaiswal	IFPM - Ph.D. (IIM Bangalore)
FIRST SEMESTER - ISI KOLKATA		
Statistical Structures in Data	Dr. Amita Pal	Ph.D. (ISI, Kolkata)
Stochastic Processes and Applications	Prof. Krishnendu Mukhopadhyaya	Ph.D, M.Tech & M.S. (ISI, Kolkata)
Computing for Data Science	Sourav Sengupta	Ph.D.(ISI, Kolkata), M.S. (University of Waterloo)
Inference	Amitava Bandyopadhyay	Sr. Technical Officer, SQC & OR, ISI Kolkata
Fundamentals of Database Systems	Prof. Debapriyo Majumdar	Research Scientist (IBM Bangalore), Ph.D. (Max-Planck-Inst. of Informatics, Saarbrucken)
SECOND SEMESTER - IIT KHARAGPUR		
Foundations of Algorithm Design and Machine Learning	Prof. Animesh Mukherjee Dr. Indrajeet Bhattacharya	Ph.D. (IIT Kharagpur) Research Scientist (IBM India), Ph.D. (University of Maryland)
Regression and Time Series Models	Prof. Swanand Khare	Ph.D. (IIT Bombay)
Data Science Laboratory	Prof. Sujay Bhattacharya Sanjoy Datta	Ph.D. (IIITM Gwalior) Head, Marketing Research (ITC Limited), PGDM (IIM Ahmedabad)
Complex Networks	Prof. Bivas Mitra	Ph.D. (IIT Kharagpur)
Information Retrieval	Prof. Pawan Goyal Prof. Animesh Mukherjee	Post doctoral fellow (INRIA Paris-Rocquencourt), Ph.D. (University of Ulster), Ph.D. (IIT Kharagpur)
Modeling in Operations Management	Prof. Rabindranath Bhattacharya	Ph.D. (DoMS, IIT Madras), G.M. Materials TVS Group
Healthcare Analytics	Prof. Ram Babu Roy	Fellow (IIM Calcutta)
Product analytics	Prof. Pranab Kumar Dan	Ph.D. (Jadavpur University)
Supply Chain Analytics	Prof. Kunal Kanti Ghosh	Ph.D. (IIT Kharagpur)
Business Accounting and Banking Analytics	Prof. C. S. Mishra Prof. A. K. Mishra	Ph.D. (Utkal University) Ph.D. (IIT Bombay)
Venture Analytics	Prof. Prabha Bhola	Ph.D. (IIT Kharagpur)
THIRD SEMESTER - IIM CALCUTTA		
High Frequency Finance & News Analytics	Prof. Ashok Banerjee	M.Com, CA, ICAI, Ph.D.
Financial Risk Management	Prof. (Retd.) B B Chakrabarti	Director, IIM Ranchi
Computational Finance	Prof. Vivek Rajvanshi	Fellow (IIM Calcutta)
Categorical Data Analysis	Prof. Ayanendranath Basu Prof. Sahadeb Sarkar	ISRU (ISI Kolkata), Ph.D. (Pennsylvania State Univ.) Ph.D. (Iowa State University), M.Stat (ISI, Kolkata)
Project Management	Prof. Bodhibrata Nag Saikat Dutta	Fellow (IIM Calcutta), B.Tech (IIT Madras) Director, Cognizant Technology Solutions
Business Economics	Prof. Runa Sarkar Prof. Sudip Chaudhuri	Fellow (IIM Calcutta), M.S.(University of North Carolina) Ph.D (Jawaharlal Nehru University)
Strategic Management	Prof. Anirvan Pant	Fellow (IIM Bangalore)
Pricing & Revenue Optimization	Prof. Preetam Basu, Prof. Sumanta Basu	Ph.D.(Universtiy of Connecticut), MS(University of Minnesota) FPM (IIM, Ahmedabad)
Selected Aspects of Predictive Modelling	Prof. Manisha Chakrabarty	Ph.D. (ISI, Kolkata)
Econometric Methods with Applications in Business and Economics	Prof. Manisha Chakrabarty	Ph.D. (ISI, Kolkata)
Managerial Communication	Prof. Santanu Dey	MA (Communications) University of Massachusetts
Business Data Mining	Prof. Indranil Bose	M.S. & Ph.D.(Purdue University)
Human Resource Management	Prof. Amit Dhiman	Fellow (IIM Ahmedabad)



Indian Institute of Management Calcutta
Diamond Harbour Road Joka Kolkata 700104
Indian Statistical Institute Kolkata
No. 203, B T Road, Kolkata 700108
Indian Institute of Technology Kharagpur
Kharagpur, West Bengal 721302

Email: pgdbplacements@iimcal.ac.in