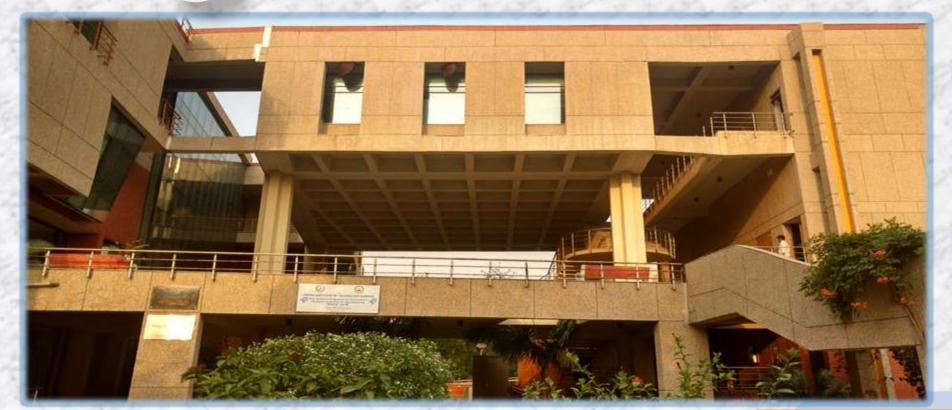


Department of Industrial & Management Engineering (MTech) Indian Institute of Technology, Kanpur





ABOUT DEPARTMENT

Set up in 1974, the Department of Industrial and Management Engineering (IME) at IIT Kanpur is one of the first in the country to recognize the strength of combining the training of engineers with management education. The class being a heterogeneous mix of engineers from diverse fields naturally enriches the learning environment, turning it into a fountainhead of vibrant ideas.

The MTech program is the flagship program of IME department. It is one of the oldest to introduce industrial engineering in India. The program provides a perfect blend of industrial engineering and management science to its students. The well-defined structure of course work and a year-long thesis work provides in-depth knowledge of concepts to students. The intervening summer internships is used for practical project work in industries.

The program focuses on developing expertise in **Analytics** and **Operations** fields. It covers diverse topics from both the management and engineering paradigms. **Statistical Modelling**, Improvement of Productivity, Quality and Profitability in the Manufacturing sector, **Supply Chain Management** and application of **Optimization Techniques** and **Business Intelligence Tools in economics, finance, marketing and IT** are some of the areas to which students are exposed.





DEPARTMENTAL FACILITIES

IIT Kanpur boasts of world class infrastructure facilities. The department has been endowed with enviable computational facilities. In addition the department is equipped with the latest tools and systems used in the industries for the students to obtain hands-on experience. Having some of the most complicated software like product life cycle management, simulation, statistical analysis, financial modeling, process design and control, etc. in the well-equipped laboratories allow the students to learn the vital skills allowing them to succeed in future; both in industry and academia.





The IME department has the following labs

- Energy Analytics Lab
- Smart Systems and Operations Lab
- Product Lifecycle Management Lab
 - Management Computing Lab
- Virtual Lab Production Shop Simulation Lab of MHRD
- Management Simulation Lab
- Departmental Library



DEPARTMENTAL ACTIVITIES

Technologies Developed

Department of Industrial and Management Engineering (DIME) at IIT Kanpur as developed the following technologies.

- Train Running and Loco Performance Simulation Software (RDSO & BHEL)
- TrackSafe: Decision Support System to Enhance Safety of Railway Track WorkersISTP-GITA

Extra Curricular Activities

- Students of IME have active participation in Student's Senate, Counseling Service Team & Overall Coordinators, Hall Executive Committee, Entrepreneurship Cell Executives.
- They also participate in Annual Cultural and Tech Fest- Antaragni and Techkriti.
- Some students have excelled in the field of adventure sports (trekking etc.)

Research And Development

- Sponsored projects (in 5 yrs.) worth: 350 Million INR
- Total papers published: 58

Events/ Conferences/ Workshops

- IME Doctoral Colloquium 2018
- GIAN Courses- Multi-objective Optimization Using Metaheuristic
- Data Analytics For Operations Research
- Industrial visits
- Weekly industrial and academic seminars on **Analytics**, **Operations and Finance** from recognized speakers.
- Prabandhan National level Management Festival

CURRICULUM

OPERATIONS

- Operations Research For Management
- Advanced Decision Models
- Supply Chain Management
- Design Of Production Systems
- Operations Management
- Total Quality Management
- Project Management

FINANCE & MANAGEMENT

- Financial Engineering,
- Financial Modelling
- Simulation And Optimization
- Human Resources Management
- Business Process Management
- Business Management Using Cloud
- Software Project Management

COMPUTING

- Introduction To Computing
- Computer Aided Decision Support Systems

ANALYTICS

- Probability And Statistics
- Statistical Modeling For Business Analytics
- Time Series Modelling For Business Analytics
- Causal Inference for Business Analytics
- Data Mining And Knowledge Discovery
- Big Data For Management
- Marketing Research
- Advanced Statistical Methods
 For Business Analytics
- Applied Machine Learning
- Introduction To Stochastic Processes
- Economic Analysis For Management
- Introduction To Game Theory

TOOLS/SOFTWARE

- PYTHON
- POM-QM

•

- PHP
- JAVA

- SQL
- SPSS

Hadoop

SAS

GAMS

Spark Tableau

SUMMER INTERNSHIP

The two year MTech program requires students to do a compulsory summer internship at the end of first year between May-July for a period of two to Three months. To cater to the growing industry demand most of the students undergo internship in the field of Data Science, Business Analytics, Marketing, Finance and Operations.

THESIS

One year long thesis work is aimed at providing means to get deeper knowledge in the field of interest. These thesis cover exhaustive areas of analytics, industrial engineering and management science such as Market Basket Analysis, NLP, Big Data Analytics, Financial Analytics, Optimization, ERP, Heuristic development, Simulation of business systems and Supply Chain Management.



BATCH PROFILE 2020-22



ABHAYRAJ P. SINGH Interests: Analytics, **Operations**



ABHISHEK SAHU Interests: Analytics, Finance, Operations



AKASH SONOWAL Interests: Analytics, Finance, Operations



ANKUR SINGH Interests: Analytics



DEVENDRA SINGH Interests: Analytics, Operations, Supply Chain



HARSH JAIN **Operations**



JAYDEEP SARVAKAR KRISHAN L CHAURASIYA Interests: Analytics, Interests: Analytics, Interests: Analytics, **Finance Operations**



MANSI VARSHNEY **Interests:** Analytics



MAYANK UMRAO Interests: Analytics, Finance, Operations



MOHIT GUPTA Interests: Analytics, Finance, Supply Chain Mgmt.



NITESH SHARMA Interests: Analytics, Finance, Operations



PRINCE K SINGH Interests: Analytics, **Operations**



RAGHUL SAKARAVATHI Interests: Analytics, **Operations**



RAZI HANEEF Operations



SANJIV R VERMA Interests: Analytics, Interests: Analytics, **Operations**



SAURABH SACHAN Interests: Analytics, **Operations**



SHUBHAM AWASTHI Interests: Analytics, Operations



SK RAJU Interests: Analytics, **Finance**



SUMIT TRIPATHI Interests: Analytics, Finance, Operations

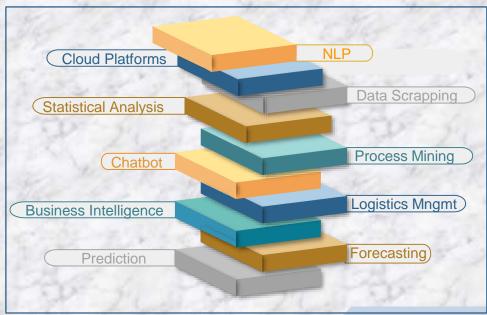


VISHESH JAIN Interests: Analytics, Operations, Supply Chain Management



Salient Features of Internship BATCH 2020 - 2022







PLACEMENT STATISTICS

Class of 2020 & 2021

- The Batch of 2018-20 and 2019-21 had young energetic and dynamic candidates from different streams of engineering.
- A few students of the batch also had prior work experience in different Industries.
- The students of MTech, IME Department were offered various roles and profile based on their chosen area of interest.

2018-20 Batch	
Total Number of Students	24
Placement Percentage	100%
Highest CTC	21.5 LPA
Top 30% CTC	17.24 LPA
Median CTC	12 LPA

2019-21 Batch	
Total Number of Students	18
Placement Percentage	89%
Highest CTC	13.5 LPA
Top 30% CTC	11.4 LPA
Median CTC	10.5 LPA

PROFILES OFFERED





DISTINGUISHED ALUMNI

Name: P N Sarwade

Year: 1976

Organization: Tech Mahindra

Designation: VP Technology Procurement

Name: Khem Aithani

Year: 1983

Organization: ITC
Designation: Senior VP

Name: Vishnu Potty

Year: 1990

Organization: Cognizant Tech Solutions

Designation: VP

Name: Mukul Srivastava

Year: 1992

Organization: Crompton greaves

Designation: VP

Name: Sharat Sinha

Year: 1994

Organization: VMware, Singapore

Designation: VP

Name: Deepak Saxena

Year: 1994

Organization: Ericcson

Designation: Account Director

Name: Shobhit Mathur

Year: 1996

Organization: eRx Solutions Pvt Ltd. Designation: Co-Founder & Director

Name: Manish Gupta

Year:1997

Organization: Microsoft Designation: Director

Name: Vikas Wadhwani

Year: 2000

Organization: aPriori INC

Designation: Director, Workday Integrations

Name: Shobhit Shrotriya

Year: 2001

Organization: Accenture, Bangalore

Designation: VP

Name: Vishwesh Khandkar

Year: 2001

Organization: Advance Auto Parts
Designation: Director of Pricing

Name: Sachin Namdeo

Year: 2005

Organization: Citi

Designation: SVP, Digital Marketing & Media

Name: Ashish Chandra

Year: 2005

Organization: United HealthCare Corporation

Designation: Associate Director

Name: Saurabh Aggarwal

Year: 2006

Organization: Wipro Limited

Designation: Managing Consultant

Name: Abir Mukherjee

Year:2006

Organization: Citi Designation: VP Name: Vipul Agarwal

Year: 2007 Organization: Citi

Designation: Vice President

Name: Prabhakar Rao Koyyana

Year: 2007

Organization: Citi, Mumbai Designation: VP & Site Leader

Name: Ekta Gupta

Year: 2009

Organization: Fiserv

Designation: Senior Business Analyst

Name: Deborshi Mallick

Year: 2013

Organization: Goldman Sachs

Designation: Business Analyst - Equity

Research

Name: Hemendra Pandey

Year: 2014

Organization: Amazon

Designation: Program manager

FACULTY

Dr. Anoop Singh

Fellow in Management (IGIDR Mumbai)

Areas of Interest: Power Sector Regulation, Policy & Finance. Energy analytics, Energy Economics, Energy Pricing, Energy Efficiency. Former Deputy Director Economics, Haryana Electricity Regulatory. Member of the Working Group on Power for the 12th Five-Year Plan, Planning Commission.

Dr. Faiz Hamid

Fellow in Management (IIM Lucknow)

Areas of interest: Combinatorial Optimization, Network Optimization, Artificial Intelligence, Fuzzy Logic, Data Mining, Recommender Systems

<u>Dr. Deepu Philip</u> Ph.D (MSU Bozeman USA)

Areas of Interest: Business Intelligence, Production and operations management, Systems engineering and simulation, Local search and optimization, Unmanned Aerial System

<u>Dr. Vanamalla V</u> *Ph.D (IISc, Bangalore)*

<u>Dr. Devlina Chatterjee</u> *Ph.D (IISc Bangalore)*

Areas of Interest: Managerial Economics, Applied Econometrics, Rural Economics, Empirical Finance.

Specialization areas: Applied Economics, Statistical Modelling, Rural and Agricultural Markets.

<u>Dr. Subhankar Mukherjee</u> *Ph.D (IIM Calcutta)*

Areas of Interest: Economics

Specialization areas: Applied Microeconomics, Development Economics

Dr. B.V Phani
Ph.D (IIM Calcutta)

Areas of interest: Financial Analytics, Credit Risk Modelling, Securitization, Entrepreneurial Finance, Innovation and Entrepreneurship, Market microstructure and valuation.

-Associate Dean, Innovation & Incubation IIT Kanpur

<u>Dr. Subhas C Misra</u> Ph.D (Carleton University)

Areas of interest: Business Process Management, Enterprise Resource Planning (ERP), ERP and Supply Chain Management, Business Analytics/Data Analysis, e-Governance, Project Management

FACULTY

<u>Dr. R.R.K Sharma</u> FPM (IIM Ahmedabad)

Areas of interest: Operations Research, Operations Management, Strategy. 117 publications (24 book chapters; 16 international conferences published and 57 journal publications) till date. Published two books (one on MRP systems and one on management control systems of organizations).

<u>Dr. Avijit Khanra</u> Fellow (Ph.D) (IIM Ahmedabad)

Areas of interest: Inventory and Demand Management; Stochastic Modelling, System Analysis and optimization.

Dr. Amit Shukla
Fellow in Management (IIM Lucknow)

Areas of Interest: Emerging Employment Relationship, Citizenship Behaviour, Psychological Ownership, Positive OB, Academic Excellence, Staffing, Talent and Performance Management
Gold Medallist, B.Tech ISM Dhanbad 2001

<u>Dr. Raghu Nandan Sengupta</u> Fellow in Management (IIM Calcutta)

Areas of interest: Sequential Estimation, Statistical and Mathematical Reliability Theory, Risk Analysis and its Optimization Techniques in Finance, Meta Heuristic Techniques.

<u>Dr. Shankar Prawesh</u> Ph.D (Muma College of Business, USA)

Areas of interest: Big Data, Recommender Systems, Social Media, Agent Based Simulation.

<u>Dr. Rahul Varman</u> Fellow in Management (IIM Ahmedabad)

Areas of Interest: Organisation Theory, Industrial Relations, Business & Society. Founding head of the incubation center at IIT Kanpur.

Dr. Vipin B
Ph.D(IIT Madras)

Areas of interest:Decision Theory, Behavioral Operations Management, Supply Chain Contracts, Optimization in Operations Management.



PAST RECRUITERS













































GE Capital





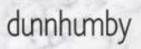
























CONTACT US



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