



# Department of Industrial & Management Engineering Indian Institute of Technology, Kanpur



**M.Tech Information Brochure (Batch 2018-20)**



## 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.







# BATCH PROFILE 2018-20



**ABHISHEK VERMA**  
Interests: Analytics, Operations



**ADITYA GUPTA**  
Interests: Analytics



**AKASH KUMAR**  
Interests: Analytics, Operations



**ASHWANI PRABHAKAR**  
Interests: Analytics, Operations



**ASHWIN ASHOK KUMAR**  
Interests: Analytics, Operations



**DANISH NAWAZ**  
Interests: Analytics, Operations



**DHRUV PATEL**  
Interests: Analytics, Finance



**INDRAJIT BARUAH**  
Interests: Analytics, Finance



**KARTHIK RAMAKRISHNAN**  
Interests: Analytics, Operations



**KAWALJEET KAUR**  
Interests: Analytics, Operations



**MOHAMMAD AMIR**  
Interests: Analytics, Operations



**MOTILAL MEHER**  
Interests: Analytics, Finance



**PARAS ARORA**  
Interests: Analytics, Finance



**PRATIKSHA SAHARE**  
Interests: Analytics, Operations



**PRIYANK DUBEY**  
Interests: Analytics, Operations



**RAHUL KARNA**  
Interests: Operations, Analytics



**ROHIT GUPTA**  
Interests: Operations,  
Supply Chain, Analytics



**SAURABH SHERWAL**  
Interests: Operations, Analytics



**SHIRISH BHARTI**  
Interests: Analytics, Operations



**SHIVAM TYAGI**  
Interests: Analytics, Operations



**SHOBHIT PANDEY**  
Interests: Analytics, Operations



**SHUBHAM SHUKLA**  
Interests: Analytics, Operations



**SOMYA SHARMA**  
Interests: Operations, Analytics  
Production Management



**YOGENDRA VYAS**  
Interests: Analytics, Operations

# CURRICULUM

## OPERATIONS

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

## MANAGEMENT

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

## COMPUTING

- Computer Aided Decision Support Systems
- Introduction To Computing

## ANALYTICS

- Probability And Statistics
- Statistical Modeling For Business Analytics
- Data Mining And Knowledge Discovery
- Big Data For Management
- Marketing Research
- Advanced Statistical Methods For Business Analytics
- Introduction To Stochastic Processes
- Economic Analysis For Management
- Introduction To Game Theory

## TOOLS/SOFTWARE

- PYTHON
- R
- JAVA
- SPSS
- SAS
- GAMS
- POM-QM
- PHP
- SQL
- Hadoop



## 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 & Business Analytics, Operations** and **Finance**.

## THESIS

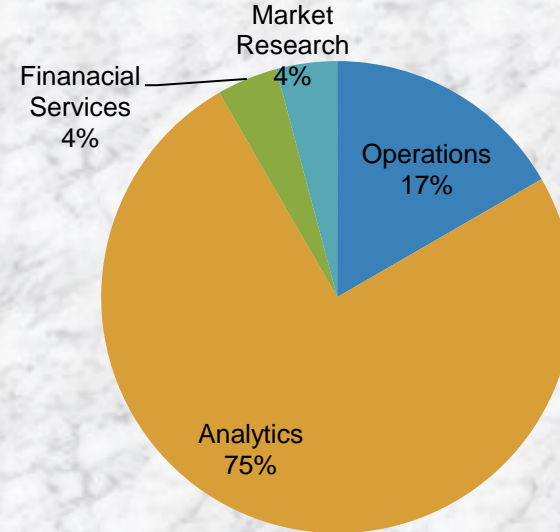
One year long thesis work is aimed at providing means to get deeper knowledge in the field of interest. These thesis cover exhaustive areas of analytics, industrial engineering and management science such as **Market Basket Analysis, NLP, Recommender Systems, Financial Analytics, Optimization, ERP, Heuristic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



## SUMMER INTERNSHIP STATISTICS (2018-20 BATCH)

- The Batch of 2018-20 successfully grabbed the internship opportunities in different organizations and the domain includes **Operations, Analytics, Market Research, and financial services.**

<b>Total Number of Students</b>	<b>24</b>
<b>Highest stipend</b>	<b>80K</b>
<b>Top 50% stipend</b>	<b>54.17K</b>
<b>Mean Stipend</b>	<b>35.25K</b>
<b>Median Stipend</b>	<b>32K</b>



\*Stipend mentioned is for whole internship period.  
#Institute stipend is not included in the stats.



# PAST RECRUITERS



GE Capital



BOSCH



HSBC



dunnhumby

McKinsey & Company

TATA MOTORS



Cognizant



CREDIT SUISSE

Flipkart



Myntra



KPMG







## CONTACT



INDIAN INSTITUTE OF TECHNOLOGY  
KANPUR

### FACULTY STUDENT PLACEMENT ADVISOR

Name: Dr. Amit Shukla

Phone: +91-0512-259-6876

Email id: [skamit@iitk.ac.in](mailto:skamit@iitk.ac.in)

### DEPARTMENT PLACEMENT COORDINATOR

Name: Danish Nawaz

Phone: +91-8582952206

Email: [danisn@iitk.ac.in](mailto:danisn@iitk.ac.in)