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

DHRYV 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 SAGAR
Interests: Analytics, Operations

PRIYANK DUBEY
Interests: Analytics, Operations

RAHUL KARMA
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

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

COMPUTING
- Computer Aided Decision Support Systems
- Introduction To Computing

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.

<table>
<thead>
<tr>
<th>Total Number of Students</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest stipend</td>
<td>80K</td>
</tr>
<tr>
<td>Top 50% stipend</td>
<td>54.17K</td>
</tr>
<tr>
<td>Mean Stipend</td>
<td>35.25K</td>
</tr>
<tr>
<td>Median Stipend</td>
<td>32K</td>
</tr>
</tbody>
</table>

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