DEPARTMENT OF MANAGEMENT SCIENCE

(FORMERLY KNOWN AS INDUSTRIAL MANAGEMENT ENGINEERING)

IIT KANPUR

M. TECH. 2024 - 26

PLACEMENT BROCHURE

ABOUT US

WE ARE THE FLAGSHIP PROGRAM OF DOMS

Founded in 1974, the Department of Management Sciences (DoMS, formerly IME) at IIT Kanpur stood as one of the early proponents in the country to acknowledge the synergy between engineering training and management education.

At DoMS, the curriculum is well-structured framework, supplemented by a year-long thesis project, imparts an in-depth understanding of fundamental concepts. Practical exposure is facilitated through summer internships, affording students the opportunity to engage in hands-on project work within industrial settings.

The program places a primary emphasis on nurturing proficiency in the domains of Data Science, Analytics and Operations. Encompassing a diverse range of subjects from both engineering and management perspectives, the curriculum covers a wide spectrum. Topics such as Statistical Modelling, Supply Chain Management, as well as the Application of Optimization Techniques and Business Intelligence Tools in areas including economics, finance, marketing, and IT, constitute integral facets of the students' comprehensive learning journey.

INFRASTRUCTURE

IIT Kanpur boasts 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 enabling them to succeed in the future; both in industry and academia.

Department of Management Sciences 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
.

ACTIVITIES

TECHNOLOGIES DEVELOPED

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

RESEARCH AND DEVELOPMENT

- Sponsored projects (in 5 yrs) worth 350 Million INR
- Total papers published: 65

EVENTS/ CONFERENCES/ WORKSHOPS

- IME Doctoral Colloquium 2018
- VIBGYOR - Monthly Webinar.
- 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

EXTRA-CURRICULAR ACTIVITIES

- DoMS students actively participate in Student's Senate, Counseling Service Team & Overall Coordinators, Hall Executive Committee, and Entrepreneurship Cell Executives.
- They also participate in Annual Cultural and Tech Fest- Antaragni and Techkriti.
- We have students who excelled in the field of sports.

FROM HEAD OF DEPARTMENT

Greetings from the Department of Management Sciences at IIT Kanpur! Since 1974, we've been a driving force in **Data and Analytics, Management Sciences**, **Operations Research**, and more. Our holistic Ph.D., M.Tech, and MBA programs foster complete techno-managers equipped to excel in complex business environments. With a diverse student body, our vibrant learning environment sparks innovative ideas.

Our alumni hold esteemed positions in IITs, IIMs, and companies like **Amazon and McKinsey**. Dedicated faculty, renowned for research and teaching, have garnered prestigious awards. Industry collaborations include **Indian Railways and IOCL**. With an updated curriculum and industry engagement, we're dedicated to upholding IIT Kanpur's legacy of excellence.

Dr. B. V. Phani,
Head, Department of Management Sciences (DoMS)

Building Blocks of DoMS

CURRICULUM

ACADEMIC COURSES

Analytics

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

Operations

- Operations Research
- Operations Management
- Advanced Decision Models
- Supply Chain Management
- Design Of Production Systems
- Total Quality Management
- Project Management
- Management Decision Analysis
- Analytics in Transport and Telecom

Finance & management

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

SUMMER INTERNSHIPS

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

THESIS

One year-long thesis work aims to provide more profound knowledge in the field of interest. This thesis covers exhaustive areas of & Management Science such as Market Basket Analysis, NLP, Big Data Analytics, Financial Analytics, Optimization, ERP, Heuristic Development, Simulation of Business Systems, and SCM.

RESEARCH AREAS & THESIS

Our one-year-long thesis program is designed to offer students an in-depth exploration of their field of interest, culminating in a comprehensive and rigorous research project. The thesis encompasses a wide range of topics within Management Science, including:

- Market Basket Analysis
- Natural Language Processing (NLP)
- Financial Analytics
- Optimization
- Enterprise Resource Planning (ERP)
- Simulation of Business Systems
- Supply Chain Management (SCM)

RESEARCH AREA

INTERNSHIP STATISTICS 2024-26

Welcome to the Vibrant Class of 2024-26: Our batch brings together a vibrant mix of talented individuals from diverse engineering disciplines, each equipped with strong technical acumen, problem-solving abilities, and a drive to excel.

A Touch of Professionalism: Notably, several students in this batch bring valuable prior work experience from diverse industries, enriching the learning environment with their unique insights.

MTech Excellence: The students of the DoMS MTech program were presented with exciting internship opportunities across a spectrum of domains, enhancing their practical exposure and knowledge.

PROFILE OFFERED

PLACEMENT STATISTICS

Experience Excellence in Placements! Our dynamic 2023–2025 batch comprises a vibrant cohort of energetic and diverse individuals from a wide range of engineering backgrounds, setting a remarkable benchmark in academic and professional excellence.

Our MTech Department of Management Sciences (DoMS) graduates have secured various roles tailored to their individual passions. Witness how our accomplished seniors continue to bring pride to the department.

PROFILES OFFERED

KEY HIGHLIGHTS

100% Placement Record

17.2 Average CTC (LPA)

19.5 Average CTC of 50% of batch

CLASS OF 2024

Students registered	**16**
Highest CTC	**23.5 LPA**
Top 30% CTC	**20.42 LPA**

CANDIDATE PROFILES

BATCH 2024-2026

ABHEET SONKER
Data Science Intern
Energy Analytics lab
IIT Kanpur

ABHISHEK TIWARI
Data Science & AI Intern
Kusumgar Corporates Pvt Ltd

ANKUR VERMA
Data Science & Operations
Research Intern
Mphasis

ANAND SHINDE
ML Intern
Promorph Capital

AMIT SONI
Operations Research
IIT Kanpur

ANSHUMAN PRAKASH JHA
Business analyst
Tripple one solutions

ASHWINI KUMAR
AI & ML Intern
One Oath Education
(Assessli)

ADITYA PRIYE
Data Science Intern
Energy Analytics lab
IIT Kanpur

BHOOPENDRA SINGH
GenAI Intern
CER IIT Kanpur

DHRUV KUMAR SAHU
Data Science Intern
Energy Analytics lab
IIT Kanpur

Format
FULL NAME, Intern-Profile ,Internship Company

BATCH 2024-2026

DIVYANSHU GONEKAR
Research Intern
IIT Kanpur

DEEPTI VERMA
Data Science Intern
Energy Analytics Lab
IIT Kanpur

KRISHAN BANSAL
AI & ML Intern
L&T Finance

KANDARP DAVE
Data Science & AI Intern
Fidelity investments

NIKESH NIRALA
Data Science Intern
Energy Analytics Lab, IIT Kanpur

PRIYANSH DIXIT
Data Science Intern
EXXON MOBIL

POOJA PATEL
Data Science & AI Intern
Fidelity investments

PRIYA PANDIT
Graduate Intern (logistics)
Dell Technologies

RISHABH PANDEY
Data Science & AI Intern
Kusumgar Corporates Pvt Ltd

RISHU RANJAN RAJ
Data Science Intern
Energy Analytics Lab
IIT Kanpur

Format
FULL NAME, Intern-Profile ,Internship Company

BATCH 2024-2026

RITIK SINGH
Data Science & AI Intern
Promorph Capital

ROHIT KHANNA
Financial Markets Research Scholar
IIT Kanpur

SHIVANK CHAUBEY
Decision Science Analyst
Accenture Solutions Pvt. Ltd.

SHUBHAM RAM
Data Science & Operations
Research Intern
Mphasis - NextLabs

TARUN SINGLA
SC-Operations Technical Intern
Mondelez International

UTKARSH MISHRA
Data Science Intern
Fidelity investments

VENKATA MADHU SAI D
Research intern
IIT Kanpur

Jadhav Sangam Anant Asmita
Data Science Intern
Energy Analytics lab
IIT Kanpur

Format
FULL NAME, Intern-Profile ,Internship Company

OUR PROMINENT ALUMNI

ASHWINI VAISHNAW
Minister of Railways,
Communications and
Electronics &
Information GOI

K. KRITHIVASAN
Chief Executive Officer
TATA CONSULTANCY
SERVICES

SHARAT SINHA
President,
Asia-Pacific & Japan
CHECK POINT SOFTWARES

RUPALI JOSHI
Senior Vice President
Model Risk
Management
CITI Bank

SHOBHIT SHROTIYA
Managing Director - Life
Sciences R&D Operations
ACCENTURE

ANJALI AWASTHI
Professor and
Concordia University
Research Chair

SHYAM BHASKAR
Supply Chain Consulting
Practice Leader
TATA CONSULTANCY
SERVICES

MUKUL SRIVASTAVA
President
CG POWER & INDUSTRIAL

MANISH GUPTA
Director – Consumption
Excellence
MICROSOFT

POOJA JOSHI
Staff Vice President - Data
Analytics & Reporting
Elevance Health

Format
FULL NAME, Designation, Organization

OUR PASSIONATE FACULTY

DR. B.V. PHANI
Fellow in Management (IIM C)
Financial Management Valuation & Real options

DR. DEEPU PHILIP
Ph.D.(MSU Bozeman)
Decision Support Systems
AI based searches

DR. ABHINAVA TRIPATHI
Ph.D (IIM Lucknow)
Finance Market efficiency, Corporate Banking, Portfolio Management,Financial Accounting

DR. SUVENDU NASKAR
Ph.D. (IIM Calcutta)
Information Technology,Emerging Technologies, Supply Chain Management, SC Finance

DR. AMIT SHUKLA
Fellow in Management (IIM L)
Emerging Employment Relationship Citizenship Behaviour

DR. RAHUL VARMAN
Fellow in Management (IIMA) Personnel Management & Industrial Relations, Organizational Behaviour.

DR. ANOOP SINGH
Fellow in Management (IGIDR Mumbai)
Energy and Environment
Microeconomics

DR. RAGHU NANDAN SENGUPTA
Fellow in Management (IIM Calcutta)
Data Envelopment Analysis (DEA)
Statistical Inference Problems

DR. AVIJIT KHANRA
Fellow in Management (IIM A)
Operations Management
Operations Research

DR. SHRI VARNAMALLA V
Ph. D. (IISc. Bangalore)
Optimization and Game Theory Applied Operations Research

Format
FULL NAME, Qualification, Research Areas

OUR PASSIONATE FACULTY

DR. JITENDER KUMAR
Ph.D.(IIT Roorkee) Consumer Psychology Brand Management

R. SHANKAR PRAWESH
Ph. D. (University of South Florida) Big Data, Recommender Systems Social Media Analytics

DR. JOTHSNA RAJAN
PhD (IIM Bangalore) Public Administration Policy Evaluation

DR. SOURAV MAJUMDAR
Professor
Ph. D. (IIM Ahmedabad)

DR. NIVEDITA BHAKTHA
Professor
Ph. D. (The Ohio State University)

DR. SOURYA JAYEE DE
Professor
Ph. D. (IIM Calcutta)

DR. MOUSAMI PRASAD
Ph.D (IIT Bombay)Energy and Climate Change Economics; Energy Transition;Energy Policy; Industrial decarbonisationur.

DR. SUBHANKAR MUKHERJEE
Ph.D. (IIM Calcutta) Development Economics Applied Microeconomics)

DR. PRERNA GAUTAM
Ph.D (University of Delhi) Operational Research,Optimization, Sustainability, Waste Management, Service Operations Management.

DR. SUMAN SAURABH
PhD (IIM Ahmedabad) Corporate Finance, Payout Policy Investments, Derivative Pricing

Format
FULL NAME, Qualification, Research Areas

OUR PASSIONATE FACULTY

DR. FAIZ HAMID
Fellow in Management(IIM L)
Combinatorial Optimization
Network Optimization

DR. HARSHAL MULAY
Ph.D (IIM Calcutta)
Law and Finance, Culture and Finance, Creditor Rights,Banking, Corporate Finance

DR. VEENA BANSAL
Ph. D. (IIT Kanpur)
Software Project Management
Data Science, ERP

DR. VINAY RAMANI
Ph. D. (University at Buffalo)
Industrial Organization
Pricing Strategy

DR. VIPIN B
Ph.D. (IIT Madras)
Decision Theory, Inventory Theory and Supply Chain Management)

DR. V. GIRIDHAR
PhD (IIM Shillong)
Subaltern Consumer Culture, Consumer Behaviour, Retail Management

DR. DEVLINA CHATTERJEE
Ph. D. (IISc. Bangalore) Managerial Economics Applied Econometric

DR. SUBHAS CHANDRA MISRA
Ph. D. (Carleton University)
Enterprise Resource Planning (ERP)
Business Process Management

Format
FULL NAME, Qualification, Research Areas

OUR PAST RECRUITERS

McKinsey & Company
AXTRIA
Goldman Sachs
citi
Deloitte.
fractal
AMERICAN EXPRESS
genpact
IBM
BRIDGEi2i
APL Logistics
EXL
Flipkart
mastercard
ICICI Lombard
Cognizant
Mphasis
TRIDENTGROUP
KPMG
pwc
BARCLAYS
GE Capital
hp
NORTHERN TRUST
HSBC
Walmart
OPTYM
HDFC Life
Capital One
accenture
CORECOMPETE
ORACLE
JPMorgan Chase & Co.
wipro
tcs
HCL
HOUSING FINANCE
LUPIN
apporchid
TIGER ANALYTICS
SIGMOID
Kusumgar
Fidelity
ExxonMobil
DELHIVERY
Mondelēz International
DELL
Morgan Stanley
BharatPe
Ford
TREDENCE

OUR TEAM

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SENIOR PLACEMENT CORDINATORS

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