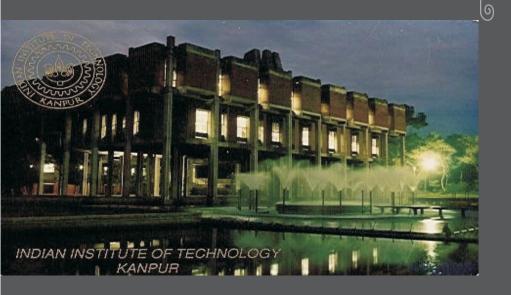


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IME, in IIT Kanpur is carrying out original research of significance and technology development at the cutting edge.



# **Director's Message**

The M.Tech programme of the Industrial & Management Engineering Department at IIT Kanpur is unique in its contemporary flavour, crafting and building individuals who take what exists today and conceptualise what should exist in the future. In fact the programme is a testimony to one of the key strengths of IIT Kanpur of nurturing the inherent dynamism and expressing through path-breaking innovations in both its programmes and research to keep abreast with the latest.

An Industrial Engineer is synonymous with Systems Integrator - a big-picture thinker. The group is interested in research related to modelling, quantitative analysis and optimal resource allocation for decision problems in deterministic and stochastic contexts. Broad areas of application are in Manufacturing Systems, Supply Chains, Logistics, Finance, Analytics, Services, Infrastructure and other Industrial Systems.

Globally accepted as a vibrant seat of academic and professional excellence, IIT Kanpur is known for its special efforts to recruit talented faculty on a global basis and stringent admission procedures to select brilliant students across the country ensures the commitment of IIT being India's most recognised brand all over the world.

Needless to say that the M.Tech students of IME Department have been exhibiting strong passion to serve the society as a responsible and integral part of the corporate as well as the academic world. Students of the earlier batches have carved out a niche for themselves as assets to the organisations. Their formidable quantitative, technical and analytical skills coupled with right management acumen that the programme imbibes on them gives them a decisive edge over others. The fact is reinforced by the enthusiastic response from the corporate world in form of placements.

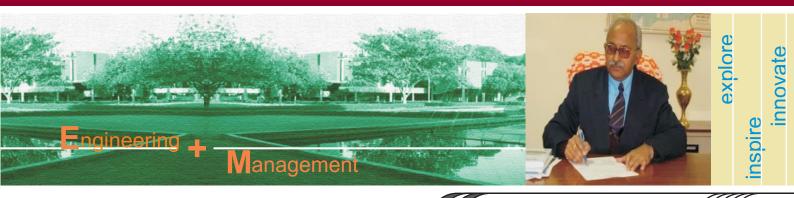
I wish them all the very best in all their future endeavours.

S.G.Dhande

**Director, IIT Kanpur** 







The M.Tech program of IME (Industrial and Management Engineering) Department of IIT Kanpur has vide acclaim. The accolade for this acclaim can be attributed to the rigour through which the IME faculty

worldwide acclaim. The accolade for this acclaim can be attributed to the rigour through which the IME faculty subjects its students. Being an integral part of an institution of the stature of IIT Kanpur naturally helps the budding spark to imbibe all the values and ethos that have made it an epitome of excellence. Assured of such a solid background, it indeed gives me immense pleasure and satisfaction to introduce the "2011 Batch" students of the M. Tech program at IIT Kanpur.

Our tryst with Engineering and Management started way back in 1974, when the Industrial and Management Engineering (IME) programme was initiated to teach methods to plan, design, implement and manage production and services. Our M. Tech. students take quantitative, financial and IT courses which find applications in Production Management (SCM/Logistics), Financial Engineering (Investment Research /Risk Management/Financial services) and Marketing Engineering.

With carefully designed syllabus, we keep up to the true IIT Kanpur tradition of sensitising ourselves with the latest in the industry. The M.Tech course in IME has evolved as a program for developing Managers from Engineers with cross-functional skills with special emphasis in quantitative techniques and operations. The class being a heterogeneous mix of engineers from diverse fields naturally enriches the learning environment, turning into a fountainhead of vibrant ideas.

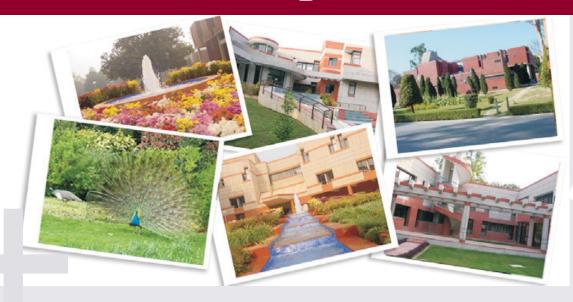
I wish our M. Tech students a fruitful career with the industry.

Dr. N. K. Sharma Head, IME Department





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# **ABOUT IITK**

Indian Institute of Technology, Kanpur is one of the premier institutes established by the Government of India The Institute is ideally located in a sprawling campus, spread over an area of 420 hectares. The campus is home to about 1850 undergraduate and 1800 postgraduate students, 320 faculty members and more than 1500 supporting staff.

Since its inception, IIT Kanpur has been striving to develop itself into an institution of excellence in education and research in consonance with the contemporary and future needs of India. The combined record of its faculty and students along with the alumni spread across the world is awe-inspiring. With path-breaking innovations in both its curriculum and research, the Institute is rapidly gaining a legendary reputation.

The Institute offers its students an outstanding academic environment coupled with world-class infrastructure. Not only does it celebrate freedom of thought, cultivate vision and encourage growth, but also inculcates human values and concern for the environment and the society.

The special efforts to recruit talented faculty on a global basis and stringent admission procedures to select brilliant students across the country, ensures a pool of formidable intellectual capital at any given time in the campus. This helps in a healthy and dynamic exchange of ideas which incubates leaders for the corporate world.



# **Antaragni**

# Life @ IITK



Antaragni is an All-India Inter-Collegiate cultural function hosted by the Students Gymkhana. Amidst the academic rigour at IIT Kanpur, Antaragni serves to fuel the creative mettle in the students. Over the years, the festival has earned a reputation of being a complete "cult-fest" as it offers the participants a plethora of contests and professional performances by the great renowned persons.

# **Techkriti**

The need to provide the students with an opportunity to showcase their technical expertise and ingenuity led to the genesis of Techkriti, the annual Science and Technology festival of the institute. It includes a section called 'Olymbiz' which invites article on new products, services or marketing strategies of existing companies.

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# Udghosh

To sustain and revitalize the energy and spirit inherent in the students, Udghosh, the annual national level sports meet of IIT Kanpur is a depiction of sporting fervour. Students of numerous educational institutions all over the country exhibit and hone their skills in the sport arena through this mega event.

# Josh

JOSH, the 'all night' intra IIT Kanpur sports festival demonstrates the energy and enthusiasm of students. It encompasses more than 15 different games including Football, Hockey, Lawn Tennis, Table Tennis, Handball, Carom, Chess, Basketball, Badminton, Cricket etc.

# Student Gymkhana

he Students Gymkhana forms a common platform which hosts various clubs under its common purview, catering to the diverse areas of interests of the IIT fraternity. These clubs not only help in channelizing the creative pursuits of the students, but also help in fostering the spirit of the inquiry through a series of lectures, seminars and workshops.

## **Business Club**

The Business Club serves in enhancing the business acumen of the students. The club organizes year round the series of lectures, case study contests, corporate quizzes and other such activities. The need to provide the students with an opportunity to showcase their technical expertise and ingenuity led to the genesis of Techkriti, the annual Science and Technology festival of the institute. It includes a section called 'Olymbiz' which invites article on new products, services or marketing strategies of existing companies.

# **Gliding Club**



To sustain and revitalize the energy and spirit inherent in the students, Udghosh, the annual national level sports meet of IIT Kanpur is a depiction of sporting fervour. Students of numerous educational institutions all over the country exhibit and hone their skills in the sport arena through this mega event. The only of its kind in the whole country the Gliding Club provides one with an opportunity to experience what Wright brothers did a century ago. Regular flying can also help one to earn the Glider Pilot License issued by the Department of Civil Aviation, India.

# Students Film Society

SFS aims at providing high quality entertainment to students by screening the best of movies and by encouraging various extracurricular activities throughout the year like movies quizzes, film-making, editing contests etc. SFS organizes Umang, the annual Film festival of IITK. Students Gymkhana also patronizes Music Club, Photography Club, Dramatics Club, English Literature Society, Astronomy Club and Robotics Club.





not only **celebrate** freedom of thought, cultivates **Vision** and encourages Growth, but also inculcates human alues and concern for **environment** and **ociety**.

# About IME Department

With the establishment of the Department of Industrial and Management Engineering (IME) in 1974, the institute extended its **technical supremacy to managerial disciplines** The IME department was established with the aim of synergizing technology with management. This synergy, which commenced with the M.Tech and Ph.D. programmes offered by the department, was consummated with the introduction of the MBA programme in the year 2001. The department is currently engaged in a diverse set of activities including teaching, consultancy, Management Development.

The curriculum comprises state-of-art techniques to plan, design, implement and manage integrated systems of men, materials, capital, information and technology.

The subjects taught provide a well-rounded coverage of the methods to manage and improve productivity, customer satisfaction and profitability of industrial, information and infrastructural (service) systems. In today's competitive era these methods have rapidly become relevant for engineers. Consequently, fresh engineering graduates as well as practicing professionals in fields ranging from computer science to aerospace engineering and architecture to electronics engineering regularly enroll in IME's postgraduate programmes.

We have Top-notch faculty with over 25 years' hands-on industry experience and exceptional publication record. Faculty at IME is drawn from various disciplines, having diverse experience in fields such as - teaching, training, research, business management and consultancy. Faculties have guided numerous M.Tech & PhD thesis and have a number of research papers, publications to their credit.

Today, students of IME Department work in a variety of research labs and industries, including Manufacturing, Communications, Transportation, Banking, Pharmaceuticals, Finance, Travel, semiconductor, E-business, Healthcare, and Information Technology.



# M Tech programme

Technological advances have brought changes to organization and industries across the world. This has led to ever-increasing need for professionals who have analytical, managerial skills along with sound technical knowledge. Foreseeing this need, IME Department has designed its M.Tech programme to help existing engineers gain managerial skills.

A high GATE score followed by IME Department's own tests on comprehension and quantitative skills followed by a personal interview is the only way to get admission in this course. After being admitted through the gruelling process, the students are subjected to equally tough learning process.

IME Department emphasises "methods" of understanding systems. Rather than 'spoon-feeding', students are taught basic concepts and their analytical skills are then sharpened through a series of rigorous exercises. This approach helps to build strong reasoning and analytical abilities and best prepares them to take on real-world problems. IME Department recognises that mere course-work will not normally make one an effective manager. It is the rigor to which the IME faculty subjects its students, which imparts in them the potential to be a top notch manager.





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# **Course Overview**

During the two years course, student is supposed to take 9 subjects, 4 of which are compulsory to give basic understanding of various fields. Student is free to choose other 5 subjects from a wide choice of alternatives. A two month summer internship is integral part of this course. It gives much needed industry exposure to students. This becomes an added advantage for IME M.Tech. students.

One year thesis work helps to focus on a particular area of interest. This thesis gives deep understanding of that particular topic and 2 coupled with summer internship; it is the USP of IME Department's M.Tech programme.

Seminar
Probability And Statistics
Computing for Management

Accounting For Management
Operations Research For Management

Compulsory

Supply Chain Management
Managerial Decision Analysis
Computer Aided Decision Systems
Manufacturing Planning And Control

**Production And Operations Management** 

## **Operations**

## Finance

Financial Engineering
Financial Management
Management Of Risk In Financial System
Security Analysis, Derivatives & Portfolio Mgmt.

## **Miscellaneous**

Marketing Research
Marketing Of Service
Enterprise Integration With IT
Managing Service Operations
Management Information Systems

8-10 Weeks Summer Internship [Industry Exposure]

One year detailed Thesis work





Faculty	Research Areas
Prof. B. V. Phani, Fellow (IIM Calcutta) bvphani@iitk.ac.in	-Corporate Governance. -Financial Intermediaries. -Financial Markets
Prof. Jayanta Chatterjee Ph.D (IIT Delhi) jayanta@iitk.ac.in	-Managing High TechnologyServices Marketing and CRMKnowledge & InnovationDeveloping Strategic FlexibilityProduct Management.
Prof. Kripa Shanker Ph.D .(Cornell) ks@iitk.ac.in	-SCMProduction/Operations Management -Quantitative and Statistical Decision ModelsCIMS/FMS Simulation, MIS and Database Mgmt.
Prof. Anoop Singh Ph.D (IGIDR, Mumbai) anoops@iitk.ac.in	-Infrastructure Sector Reform & RegulationFinancial ManagementDevelopment Of Power and Market -Energy Economics and Demand AnalysisEnergy and Environment Policy Modelling.
Prof. A.K. Mittal Ph.D (Case Western) mittal@iitk.ac.in	-Operations ResearchOperations Management -TQMProcess Reengineering.
Prof. R.R.K. Sharma Fellow (IIM Ahmedabad) rrks@iitk.ac.in	-Operations ResearchProduction and Operations ManagementProblems & MRP Systems. Computers and InfoManufacturing PolicyStrategyLocation Allocation.



# Faculty

# **Research Areas**

Prof. N. K. Sharma Ph.D (Delhi University) nksharma@iitk.ac	-Cognitive PsychologyEngineering & Consumer PsychologyOperations Research & TQMProcess Reengineering.
Prof. Peeyush Mehta Fellow (IIM Ahmedabad) pmehta@iitk.ac.in	-Operations Management -SCM -Production Planning & Inventory Management -Scheduling -Manufacturing Strategy
Prof. R.N. Sengupta Fellow (IIM Calcutta) raghus@iitk.ac.in	-Econometrics Methods in FinanceStatistical Inference ProblemsMulti-criteria Decision MakingData Envelopment Analysis & Fuzzy Systems.
Prof. Arun P. Sinha Fellow (IIM Ahmedabad) asinha@iitk.ac.in	-Strategy. -International Business. -Services Marketing. Tourism, Hospitals.
Prof. Rahul Varman Fellow (IIM Ahmedabad) rahulv@iitk.ac.in	-Restructuring & Change of Indian IndustryManagement of Small and Medium Enterprises and Local Industries & Democratic Issues.
Prof. Runa Sarkar Fellow (IIM Calcutta) runa@iitk.ac.in	-Corporate Environmental BehaviourEnvironmental Evaluation.
Prof. Deepu Philip PhD. (Montana State University) dphilip@iitk.ac.in	-Decision Support Systems. -TQM. -Simulation



# Faculty

# **Research Areas**

Prof. Veena Bansal	-Information Technology.		
Ph.D (IIT Kanpur)	-Data Mining.		
veena@iitk.ac.in	-Software Engineering.		
Mr. Subhas C. Misra	-Information Systems Analysis and Design		
PhD (Carleton University)	-Agile Software Development		
subhasm@iitk.ac.in	-Telecom Systems Management -Economics of Information Systems		
	-Software Quality, Security Risk, E-Business		
	-Software Quality, Security Nisk, L-Business		
Prof. R K Amit	-Economics		
Ph.D (IISc Bangalore)	-Game Theory		
rkamit@iitk.ac.in	-Operations Research		
mannia minia di mana d			
Mr. Dipankar Ganguly	-Finance and Taxation Consultant for Development Authorities, State Government Industrial Units, Manufacturing and Trading Companies -Teaching Roles with Institute of Chartered Accountants		
Chartered Accountant			
& Proprietor,			
D. Ganguly & Co avirup@hotmail.com	readining reads with metatate of chartered recountants		
avii up@notinaii.com	<u> </u>		
Mr. Jayant Krishna	-20 years of experience in Project Management, Software Engineering,		
Principal Consultant	Information Systems and Sales & MarketingRegional Director (UK & Ireland), Delivery Centre Head, Group Leader,		
TATA Consultancy			
Services (TCS) Limited	Global Relationship Manager and Regional Manager during TCS tenure -President - Lucknow Management Association, Convener		
jayant.krishna@tcs.com	CEO Forumand ChairmanComputer Society of India's Lucknow Chapter		
Dr. B. Chandra	-Statistical Classification and Clustering for data mining, Neural Networks		
Ph D (Delhi) bchandra@iitk.ac.in	for Statistical Pattern Recognition, NLP, Databases,		
benandra@ntk.ac.in	Adaptive Control Models.		
Prof. A. K. Sharma	Conial Damagraphy and Conial Statistics		
Ph D (IIT Bombay)	-Social Demography and Social Statistics -Neo-Social Movements		
(	1400 Good Movements		



One year thesis is aimed at providing means to get deeper knowledge in the field of interest. These theses cover exhaustive areas such as Finance, Marketing, Optimization, ERP, Operation Management and Supply Chain Management.

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- -A general genetic algorithm based heuristic for solving integer linear programming problems.
- -A multi functional and multi dimensional framework for measuring performance of supply chain.
- -Modelling and Heuristic Approaches to Retail Space Management in Complex Environments.
- -ERP implementation and its effect on a few variables of organization structure and manager's job.
- -Product diffusion under conditions of scarcity: modelling, analysis, and applications.
- -Modelling and Implementation of a Decision Support System for a Theatre Chain in The Netherland
- -Supply Chain Optimization & Warehouse Operations
- -Yield management: modelling analysis and implications.
- -A learning tool for supply chain management of e-commerce with product customization.
- -GA based algorithm for optimal portfolio selection problem
- -Heuristic Algorithms in Cellular Manufacturing System
- -A market research study of solar photovoltaic products: awareness, attitudes and buyer behaviour.



# Summer Internship

To improve industry interaction and give students a hands-on approach, our students are given 8-10 weeks of training during their vacation period. Students have over the years earned acclaim for the work they have done during summer internship at renowned companies.

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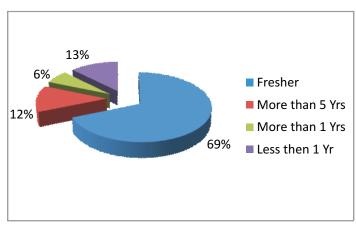
Some of the areas where students have worked over past few years are

- -Natural Gas Pipeline Optimisation of GSPL.
- -Change Management in R&D Organization for successful ERP implementation.
- -Impact of "Vertical Integration" on supply chain profits.
- -Resource optimisation at warehouses and transport hubs in order to reduce work overhead.
- -Simulation of 'Weak' and 'Strong' formulation of the SSUWLP problems for food corporation of India
- -Financial Risk Analysis on Performance Evaluation Parameters through Reliability Based Portfolic optimization

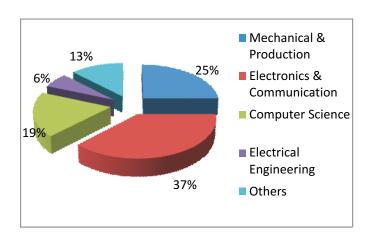
Some of the organisations that students have worked as summer interns are Siemens, DRDO, GSPL, IIMB, Maruti Udyog Ltd., TCI, Mahindra & Mahindra, Genpact, Citigroup, etc.

## **Diverse skillset**

## **Class 2011**



**Months of Experience** 



**Stream-wise Distribution** 





# **Major Recruiters**

Market Rx

DaimlerChrysler TATA Steel

**ANZ Software** 

**G**E Analytics

**ILFS** 

Genpact

TCS

**HSBC** Analytics

Schlumberger ICF International

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Shell

IBM Citigroup

ICICI Prudential

L&T Accenture

**PWC** 

Capgemini

HCL Tech.

Infosys

Conexant

**TATA Motors** 

Wipro

**HPCL** 

Atos Origin

**KLT Automobiles** 

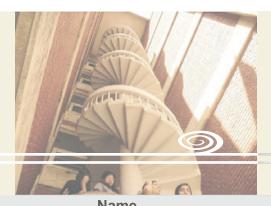
L & T Infotech

**Deloitte** 





# **Repartment Alumini**



Management is a practice where art, SCIENCE and Craft meet.

Name	Organization	Designation
Mukul Srivastava	Crompton Greaves Ltd	DGM
Murali A. Iyengar	SAIC	V.P., Business Development
Ashwini Kumar	Bharat Heavy Electricals Ltd	DGM - IT
Manish Batra	KPMG - Mumbai	Senior Consultant
Sharat Sinha	Cisco Systems	Director - Operations
Khem Singh Aithani	ITC InfoTech India Ltd	V.P.
Manish Gupta	Microsoft Corporation India Pvt Ltd	Sales Manager - Enterprise Services
Rabindra Panigrahi	Oracle Corporation	Senior Development Manager
Suryanarayana M Bhamidi	Lucent Technologies	Technical Manager
Narasimhachari Bolloju	City University Of Hong Kong	Associate Professor
Krishan Raman Agarwal	L-3 Communications Corporation	Manager, ERP Systems
Rajesh Kumar Sharma	Nortel Networks	Director, Strategic Alliances - EMEA
Amitabh Parashar	Bharat Heavy Electricals Ltd	Product Engineer - Computerization
Ved Singh	Oracle Development Centre, Bangalore	Development Manager, Application Server Product Division

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#### **Abhishek Khaparde**

B.E.(InformationTechnology)

PIET Nagpur

Summers: Cube Creation in SQL Server

@ Leap Loyalty Solution, Chennai

#### **Amit Sharma**

B.Tech. (Mechanical) JNU , New Delhi

Experience: 12Years as Army Officer (Till date)

Summers : Course Project @ IIT Kanpur





#### **Ankush Chopra**

B.E.(Electronics & Telecommunication)

Shri Shankaracharya College of Engg. and Tech., Bhilai

**Summers:** Revenue Prediction from Social Networking Sites

@ Decidyn Systems, Bangalore

#### Anuj Agrawal

B.E.(Electronics & Telecommunication)

Shri Shankaracharya College of Engg. and Tech., Bhilai

Summers: Face Recognisation tool for Image Processing

@ Decidyn Systems, Bangalore







#### AvinashTalari

B.Tech. (Computer Science & Engineering)
Shrinidhi Inst. of Science and Tech. Hyderabad
Summers: Cube Creation in SQL Server
@ Leap Loyalty Solution, Chennai





#### Bhopendra Kr. Nagar

B.E.(Production & Industrial) Engineering College ,Kota

Experience: 23 months in Mahindra & Mahindra

Summers: Facility planning, Logistic & Material Handling

@ Arvind Ltd., Ahmadabad

#### **Bishwajeet Mondal**

B.Tech. (Computer Science & Engineering)

IPEC Ghaziabad

**Summers**: Train Running & Loco performance Simulation Software @ Indian Railway, Kanpur





#### **Desh Deepak**

B.Tech. (Electronics &Telecommunication)

Dr. KNMIET, Ghaziabad

Experience: 11 Months as Project Associate in IIT Kanpur

(O

Summers: Market Survey & Gas Distribution Network Designing

@ Central UP Gas Limited, Kanpur





#### Nikhilesh Dwivedi

B.Tech. (Electronics & Telecommunication)

Dr. KNMIET, Ghaziabad

**Summers:** e-waste management

@ ILFS, New Delhi

#### Rakesh Kumar

B.Tech. (Man Made Fibre Tech.) Govt. Central Textile Institute, Kanpur Experience: 12 months in JCT Limited

Summers: Facility planning, Logistic & Material Handling

@ Arvind Ltd., Ahmadabad





#### Sagar Raj

B.E.(Electronics & Telecommunication)

GEC, RSU, Raipur

Summers: Decision Support System for Defect Detection

@ Lohia Starlinger, Kanpur

#### Sundeep Choudary M.

B.Tech. (Electrical)

Vignan Engg. College, Hyderabad

Summers: IT and Business Process development & excellence

@ Dr. Reddy Labs., Hyderabad







#### Suraj M. Patil

B.Tech. (Agricultural Engg)

Dr. B.S.K.K.V. Dapoli

Summers: Cube Creation in SQL Server

@ Leap Loyalty Solution, Chennai





#### Sushil Kr. Pandey

B.Tech. (Mechanical)
Galgotias College of Engg. & Tech., Gr. Noida

**Summers :** Supply Chain Optimization & Warehouse Operations @ Adarsh Thoughtworks, Gurgaon

#### Syed Moiz Ali

B.E.(Electronics & Telecommunication)
Raipur Institute of Technology, Raipur

Summers: Market Survey & Gas Distribution Network Designing

@ Central UP Gas Limited, Kanpur





#### Mohd. Zakaria

B.Tech. (Mechanical)

ISM, Dhanbad

Experience: 74 months in Tata Motors (Till Date)

Summers: Supply Chain Coordination & Contract Designing
@ IIT Kanpur







#### Ananya Dubey

B.Tech. (Electronics &Telecommunication)
Univ. Institute of Technology, RGPV Bhopal

## Anuj Kumar Singh

B.Tech. (Electronics & Instrumentation)
Galgotias College of Engg. & Tech., Gr. Noida





#### Arun Gupta

B.E. (Mechanical Engineering)Sastra University, Tamil Nadu

#### **Arvind Shukla**

B.Tech. (Mechanical Engineering)
Institute of Technology & Management, Gorakhpur

Experience: 26 Months, L&T Limited







#### **Dinesh Pant**

B.Tech. (Mechanical Engineering)
I.E.T., M.J.P. Rohilkhand University, Bareily **Experience:** 9 Yrs. 6 Months, IAF(Till Date)



#### **Gaurav Gupta**

B.Tech. (Computer Science)

R.K.G.I.T., Ghaziabad

## Kumar Agnivesh

B.Tech. (Mechanical Engineering)

NIT, Jamshedpur

Experience: 4 Yrs., TELCO Construction Equip. Co.





#### Mokashi Sundip

B.E. (Mechanical Engineering)

VJTI, Mumbai

Experience: 2 Yrs., L&T Limited





#### Omesh Shukla

B.E.(Mechanical Engineering)

JNU, New Delhi

**Experience**: 12 Yrs., Indian Army(Till Date)

## Padam Singh

B.Tech. (Electrical Engineering)

IIT, Kanpur





## Satyam Agarwal

B.Tech. (Mechanical Engineering)

I.I.T.D.M., Jabalpur

## **Upendra Kumar**

B.E.(Electronics & Telecommunication)

Shri Shankaracharya College of Engg. and Tech., Bhilai







## Vimal Kumar

B.Tech. (Manufacturing Tech.)J.S.S. Academy of Technical Edu., Noida

<u></u>

## Vinod Parmar

B.Tech. (Information Technology)

M.L.V. Textile Engg. College, Bhilwara







# **Faculty**

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Internship Coordinator

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