Department of Industrial & Management Engineering
IIT Kanpur, INDIA
<http://www.iitk.ac.in/ime>
IME Department

IME Department, IIT Kanpur, INDIA
Timeline of IME Department

- 1988: Formed as a department with PhD and M.Tech programs
- 2001: Started the MBA program
- 2005: Started the VLFM program
- 2013: (i) Started the B.Tech-M.Tech (IME) and B.Tech-MBA dual degree programs, (ii) Started the minor in IME for different B.Tech programs
Vision: IME Department

- To excel in both *Industrial and Management* education and research and to have a long lasting impact on management practices in *academia* as well as in *industry*
Mission: IME Department

- To provide the growing Indian economy with the scientific industrial & management knowledge base and the workforce, who will shape a prosperous and sustainable future and at the same time provide its citizen with a good quality of life.
- To impart the best industrial & management education needed for the students as well as for the industry in such a way that synergy is attained within the requirements of industry, government and the core beliefs of IIT Kanpur.
How to achieve this Mission

- Undertake innovative ideas of cutting edge research in existing and new areas
- Teach interesting and practically applicable courses
- Educate and train skilled man power (PhD, M.Tech, MBA, industry/domain expert, etc.) in related fields
- Develop training programs in niche areas which are of value to the industry as well as the society
- Collaborate with other departments/institutes in India and abroad
Achievements of IME Department

- Director IIM Lucknow
- Director, NITIE
- Director, IIIT Bangalore
- Vice Chancellor, UPTU
- Deputy Director, IIT Kanpur
- Dean, Academics, IIT Kanpur
- Dean, Research & Development, IIT Kanpur
- Dean, Resource Planning & Generation, IIT Kanpur
- Dean, Resources & Alumni, IIT Kanpur
- Dean, Student Affairs, IIT Kanpur
- Member, Indian National Commission for Co-operation with UNESCO
- Member, BoG, HBTI Kanpur
- Member, Working Group on Power, Planning Commission, GoI
- Member-International Experts Group on Agricultural Information/Content Management System at FAO
- Member L&T EAIC (Electrical and Automation Independent Company)
Honours: IME Department

- ISTE Anna University National Award for Outstanding Academic, 2001
- Lanchester Prize, 2003
- LFIBA, Life Fellow, International Biographical Association, 2006
- Fellow, Indian National Academy of Engineering, 2006
- IUSSTF Fellowship, 2008
- Academy of Management (Most promising research), 2011
- 2012: Embedded and Critical Systems Award (Innovation Awards), 2012
- Indian National Academy of Engineering Outstanding Teacher, 2015
- ERUSMUS Fellowship, 2015
- DAAD Fellowship 2017
Research: IME Department

- Marketing
- OR & OM
- Strategy
- Infrastructure
- IME
- Economics
- Finance
- MIS
- OB & HR

IME Department, IIT Kanpur, INDIA
Teaching: IME Department

Courses

- PhD program: Eight (08) (core + elective/specialization)
- M.Tech program: Three (03) core + Six (06) elective/specialization
- MBA: Seven (07) core + Fifteen (15) elective/specialization

Students at any point of time

- Forty (40) Ph.D
- Forty five (45) M.Tech
- One hundred and ten (110) MBA
- Thirty (30) B.Tech-MTech (IME) dual degree
- Thirty (30) B.Tech-MBA dual degree
- Forty (40) VLFM
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<th>Image 1</th>
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Faculty: IME Department

IME Department, IIT Kanpur, INDIA
Linking Perceived Organizational Support to Organizational Trust and Commitment: Moderating Role of Psychological Capital

Amit Shukla, Himanshu Rai

Towards a competitive market for electricity and consumer choice in the Indian power sector

Anoop Singh

IME Department, IIT Kanpur, INDIA
On the impact of suboptimal decisions in the newsvendor model

Avijit Khanra

Indian Institute of Technology, Kanpur 208016, India

Economic consequences of deregulation: Evidence from the removal of voting cap in Indian banks

Chinmoy Ghosh, James Hilliard, Milena Petrova, B.V. Phani

IME Department, IIT Kanpur, INDIA
Algorithmic Representations of Managerial Search Behavior

William M. Tracy¹ · Dmitri G. Markovitch¹ · Lois S. Peters¹ · B. V. Phani² · Deepu Philip²

Low-dimensional Characterisation of Liquidity of Individual Stocks in the Indian Market

Devlina Chatterjee, Chiranjit Mukhopadhyay

IME Department, IIT Kanpur, INDIA
Research Article

Solving the two-facility network design problem with 3-partition facets

Faiz Hamid, Yogesh K. Agarwal

Quantitative Finance, 2013
http://dx.doi.org/10.1080/14697688.2012.754547

Reliability-based portfolio optimization with conditional value at risk (CVaR)

RAGHU NANDAN SENGUPTA*† and SIDDHARTH SAHOO‡

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‡Deutsche Bank AG, Mumbai, India
The International Journal of Organizational Analysis

NATURE OF TRUST IN SMALL FIRM CLUSTERS
Mridula Dwivedi, Rahul Varman, Kaushal K. Saxena,

Article information:
To cite this document:

International Journal of Production Economics
Volume 180, October 2016, Pages 183–197

Bridging and buffering: Strategies for mitigating supply risk and improving supply chain performance

Deepa Mishra, R.R.K. Sharma, Sameer Kumar, Rameshwar Dubey

IME Department, IIT Kanpur, INDIA
Effects of Project Owner’s Title on the Financial Impacts of IT Systems Integration Outsourcing Projects

Shankar Prawesh, Manish Agrawal & Kaushal Chari

Marketing Intelligence & Planning
The impact of institutional variables in new high-tech product development processes: The moderating roles of perceived risk and project duration
Shashi Shekhar Mishra, K.B. Saji,

Article information:
To cite this document:
Research Note—IT Outsourcing and the Impact of Advisors on Clients and Vendors

Ravi Bappa
Carlson School of Management, University of Minnesota, Minneapolis, Minnesota 55455

Alok Gupta
Carlson School of Management, University of Minnesota, Minneapolis, Minnesota 55455

Gautam Ray
Carlson School of Management, University of Minnesota, Minneapolis, Minnesota 55455

Shweta Singh

- Revenue sharing contract under asymmetric information

by Sri Venamalla Venkataraman, Dereje Asfaw

International Journal of Operational Research

Shivam Gupta and Subhas C. Misra

Business Process Management Journal
Enterprise resource planning: identifying relationships among critical success factors
Veena Bansal, Ankit Agarwal,

Article information:
To cite this document:
Industry Interface/Projects: IME Department

- Syndicate Bank Entrepreneurship Research and Training Centre (SBERTC)
- Energy Analytics Lab (EAL)
- Analysis of ATM withdrawal Data using Stochastic Programming (Andhra Bank)
- RDSO, Indian Railways
- Indian Oil Corporation Limited (IOCL)
Industry Interface/Projects: IME Department

- Indian Armed Forces
- Large Scale Job-Shop Scheduling (Mitsubishi Heavy Industries)
- Virtual factory for production shop simulation for MSME
- Track Safe: Decision Support System to Enhance Safety of Railway
PhD: IME Department

- Selection through all India competitive examination and other criterion set by institute/department
- Offers students a rare combination to work in areas of IE & OR, different domains of Management Science, etc.
- Eight (08) courses out of which one (01) is compulsory
- Successful completing of course work, comprehensive examination, SOTA, defence leads to the Ph.d degree
- Alumni are faculty members at University of Florida, IIT Delhi, IIM Calcutta, IIT Kharagpur, IIM Kashipur, IIM Sambalpur, IIIT Gwalior, XLRI, MDI Gurgaon, etc.
MTech: IME Department

- Selection for this two (02) year masters program is through GATE and other criterion set by institute/department
- Offers students to work in areas of IE & OR, different domains of Management Science
- Nine (09) courses out of which three (03) are compulsory
- Summer internship is encouraged as it helps students to hone their skills and competence
- In the 2\textsuperscript{nd} year MTech thesis is mandatory which needs to be successfully defended
- Alumni have joined UPSC services, embarked for higher studies in different IITs, IIMs, Trinity College, associated themselves with companies like NOMURA Securities, HSBC, CITI, McKinsey, TATA Motors, Maruti Suzuki, etc.
MBA: IME Department

- Selection for this two (02) year masters program is through CAT and other criterion set by institute/department
- Offers students a whole gamut of course in different fields of Management Science
- A variety of core/specialization/elective courses, out of which seven (07) are compulsory
- Summer internship is encouraged as it helps students to get an unique perspective of industry
- To bring the flavour of the more hands-on experience based learning process capstone projects are compulsory which are encouraged to be industry focused
- After graduation MBA students have joined PhD programs in IIMs, etc., joined companies like ITC, Barclays, Nomura, CITI, HSBC, HUL, Amazon, etc.
Is an innovative one (01) year program mentored by IIT Kanpur, IIT Madras and IIM Calcutta

The focus is train/nurture manufacturing stalwarts in India

Selection is through a set of common norms decided by the three (03) institutes

People after graduation have joined Bharat Benz, Mahindra, ITC, HUL, Flipkart, etc.
The intakes are IIT Kanpur BTech/BS students who are interested to continue and hone their skill in either MTech or MBA domain.

Unique set of courses are required to be done before they do their MTech thesis or MBA capstone project.

After graduation they have joined industry like Google, Excel, Mu-Sigma, Mahindra, etc.
Future Plan: IME Department

- Continue its excellence in IE, OR, OM and Management Science teaching and research
- Emphasize on Data Analytics initiatives
- Make plan for Data Science and AI and related courses
- Make concerted efforts to engage more small scale industry to enhance their skill set
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