

The background of the top half of the page is a photograph of the IIT Kanpur building, a large, multi-story structure with a prominent red brick facade and a series of concrete columns supporting an upper level. The building is situated on a hillside and is reflected in a body of water in the foreground. The sky is clear and blue.

# IIT KANPUR

## M.Sc. in Statistics

# Placement Brochure 2016-17

## Vision

The department, since its inception in 1959, has emerged as a national center for excellence in mathematics, statistics and allied areas, in terms of research, teaching and mentoring students.

The rigor of applied statistics along with the insights of theoretical concepts coupled with the most flexible elective driven structure in the institute gives the students an ample opportunity in various fields.

The courses offered here are taken by professors who are leading researchers in that field. The courses being based on pragmatism, utility and function, not only enrich the theoretical knowledge but introduces them to practical aspects through course projects which are often done in groups forging team spirit.

## About Us

- The 2 year course in Statistics takes admission from Joint Admission Test for MSc (JAM). The JAM exam through which admissions are held for this course is a highly competitive all-India based entrance exam in which **less than 3%** of the aspirants are rewarded with a seat in the actual program.
- Students of the department hail mostly from statistics background, along with a few who are mathematics graduate.
- Having dealt with preliminary concepts of several topics of statistics in their under-graduate level, they deal with them in-depth in the post-graduate level and learn how to implement them to the practical problems at hand. **This program prepares them for a career in different sectors like finance, analytics, banking, insurance, risk management, R&D etc.**
- With a strong focus on innovation, the students are encouraged to perform MSc projects, through which they learn to tackle theoretical as well as industrial problems, transforming them into motivated individuals who can be great asset to any organization.

# Course Curriculum

## Compulsory Courses

- Regression Analysis
- Applied Stochastic Process
- Time Series Analysis
- Design of Experiments
- Statistical Simulations and Data Analysis
- Multivariate Analysis
- Sample Survey
- Analysis of Variance
- Probability Theory
- C Programming
- Parametric Inference
- Non-Parametric Inference
- Matrix Theory and Linear Estimation

## Elective Courses

- Statistical Pattern Recognition
- Robust Statistical Inference
- Principles of Numerical Computation

IIT Kanpur has been ranked 59th among all the universities globally in the subject of Statistics and Operational Research by QS World University Rankings by Subject 2015.

## Library

The P. K. Kelkar Library, rated among the best in India has about 3,80,000 books and in addition to almost 1,500 periodicals and journals. Each year, on an average 4,500 books and journals are added to the vast collection.

Apart from the central library, the department has a separate state-of-the-art library for all the subject oriented needs pertaining to Mathematics and Statistics.

## Computer Programmes

- R
- SAS
- MINITAB
- MATLAB
- C

## Laboratory

The department has a state -of- the-art computer laboratory with new-age mathematical and statistical softwares for all practical and project related requirements of students.

# Internships

- Capital One
- EXL
- Magic 9
- TCS

# Past Recruiters

- Accenture
- American Express
- Barclays
- Capital One
- Citigroup
- Cognizant
- Dunia Finance
- EXL
- Infosys
- Genpact
- Global Analytics
- HP
- HSBC Bank
- IBM
- ICICI Lombard
- IMRB International
- Inductis
- JP Morgan Chase
- Magic 9
- McKinsey & Company
- Mu Sigma
- Novartis
- Practo
- PWC Diamond
- Risk Raft
- TCS

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