

INTEGRATED M.SC IN ECONOMICS

DEPARTMENT OF HUMANITIES
AND SOCIAL SCIENCES,
IIT KANPUR



DEPARTMENT

Why Economics at IIT-K ?

The world acknowledges that the myriad variety of problems faced by the society today require a combination of economic and technological approach for efficient solutions. The 5-year integrated MSc program in Economics at IIT Kanpur was conceptualized in 2005 to train this new pedigree of professionals who have a scientific temperament and are well-trained in both economics and technology. The Economics program admits students who have cleared Joint Entrance Examination (JEE) conducted by the IITs, thus short-listing top 2% of some of the best minds of the country.

The Economics discipline is guided by highly qualified and experienced professors, who are doctoral fellows of world-renowned institutions. They rigorously train students in conventional economics, sciences, technology, management and policy making, and also provide practical challenges in the form of term papers, research projects, corporate internships etc.

In addition, a wide range of elective courses allow students to stretch their intellectual horizons in various directions of their choice. The students are also inspired to actively participate in host of extra-curricular activities in order to ensure overall personality development, thus making them excellent team workers and managerial candidates.

DEPARTMENT

Research Areas

The MSc thesis is an integral part of the academic curriculum in the Economics program. It allows students to specialise and conduct research in their area of interest in their final year. Interdisciplinary theses are also allowed. The thesis provides a first-hand research experience to the student.

Some of the current research areas of the students are:

Economics

- Economic Development & Microfinance
- Computational Economics
- Resource and Environmental Economics
- Energy Economics

Finance

- Financial Economics, Risk and Insurance
- Forecasting, Business Cycles, Monetary

COURSE STRUCTURE

Economics Courses:

- Money and Banking
- Game Theory
- Advanced Macroeconomics
- Mathematical Economics
- Financial Economics
- Contract Economics
- Environmental Impact Analysis
- International Economics
- Public Economics
- Econometrics Methods & Practices
- Development Economics
- Economics of Regulation & IPR

Mathematics & Statistics Courses:

- Probability & Statistics
- Time Series Analysis
- Regression Analysis
- Statistical & AI Techniques in Data Mining
- Mathematical Finance
- Mathematical Modeling

Financial & Management Courses:

- Financial Management
- Commercial Banking & Risk Management
- Marketing of services
- Financial Economics
- Organizational Structure and Behavior

Technical skills:

- **Software:** STATA, EViews, SAS, MATLAB, R, GAMS, ATPSM, Pajek, SuperMix, OnFront
- **Database:** CMIE, WITS, NSSO, Bloomberg, Moneycontrol
- **Languages:** C++, Java

INTERNSHIPS

Students utilize their summers as an opportunity to gain invaluable exposure in the corporate world, as well as to further their research interests in reputed academic institutions. Having strong economic skills with a good understanding of statistical theory, computing principles and programming techniques, they make sound trainees for various firms and organisations.

CONSULTANCY

KPMG, Germany
KPMG, India
Price Water House Coopers
Ernst & Young Global Ltd.
Delloittes
Haskin & Sells

CORPORATES

Hero Honda Motors Ltd.
WNS

BANKING & FINANCE

Deutsche Bank
HSBC
HDFC
Standard Chartered Bank
Oxus Investments, Delhi
YES Bank
RBI

TECHNOLOGICAL SOLUTIONS

Sabre Holdings
Nucleus Software

RESEARCH INSTITUTES

IGIDR, Mumbai
TERI, New Delhi
Indian Institute of Petroleum, Dehrahun
IFPRI, Washington DC
US Department of Energy, Washington

UNIVERSITIES

University of Calabria, Italy
University of Manitoba, Canada
Hochschule Darmstadt, Germany
IIM, Ahmedabad

ACHIEVEMENTS

Students of the Economics program have gone beyond just regular courses, to add many more feathers to their caps. Some of their accolades include:

- A team of the five students represented India in Amsterdam in an international Econometrics Competition, competing with world-renowned institutions such as University of Cambridge, London School of Economics and University of Oxford.
- A team of two students competed at National finals of IDEATRICS- a white paper presentation competition hosted by Deutsche Bank.
- A team of four students was selected among the Top 7 teams out of the 1800 participants in the 'National Finals' of the "CIMA Business Challenge 2011", conducted by Chartered Institute of Management Accounting(CIMA), in collaboration with Barclays.
- Pratik Agarwal published a book titled Reviews of Carbon Markets: With lessons from CCX & EU.ETS (Lambert Academic Publishing. Germany, 2011), which is available with 80,000+ bookstores.

PLACEMENTS

The rigour and commitment of IIT Kanpur has always been to bringing in major companies for recruitment. Various surveys have repeatedly ranked IIT as one of the top schools in the country, producing pioneers in every field. IIT Kanpur extends companies a warm welcome to participate in the placement procedure for students. Economics at IITK has successfully placed three batches in leading companies.



ECONOMICS



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