



Indian Institute of Technology

Department of Economic Sciences

Placement Brochure (2024-25)



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ABOUT US:

Beyond the hallowed gates of IIT Kanpur, stands the illustrious Department of Economic Sciences, a trailblazer among all IITs, with its pioneering research, teaching, and outreach activities. The department's focus on quantifiable aspects of economics, business, and finance has created a curriculum that weaves together science and technology into a seamless tapestry of economic knowledge. The department boasts of 25 permanent, highly qualified and experienced professors, who are doctoral graduates from globally renowned institutions, with a vast range of research and teaching interests.

The 4-year B.S. program admits students who have cleared the Joint Entrance Examination (JEE) conducted by IITs, with Economic Sciences being in the 5 most sought after branches according to closing ranks. The year 2023-24 marks a new beginning, as IIT Kanpur introduces a two- year M.Sc. program in Economics. The curriculum aims to equip students with foundational competencies in economics and cutting-edge skills in emerging interdisciplinary fields at the intersection of economics and technology. Other programs include B.S.-M.S. Dual Degree and PHD.

The program comprises modules on notable economic aspects and advanced econometric theory, infused with contemporary trends and issues. Apart from having strength in traditional areas like microeconomics, macroeconomics, and econometrics; the department has expertise in agricultural economics, Bayesian econometrics, behavioral economics, development economics, efficiency, and productivity analysis, environmental economics, financial economics, health economics, industrial economics, international trade, Labour economics, law and economics, optimization theory, political economy, family economics, and public policy. They also provide practical challenges to students in the form of term papers, undergraduate research projects, et cetera.

MESSAGE

From the Head of Department, Economics Sciences

IIT Kanpur is the first IIT to recognize the importance of quantitative economic education. Apart from the MSc degree, the institute also offers an undergraduate degree in economics, for which admission has been through JEE Advance since 2005 and PhD program for the last five decades. Both programs are immensely successful. All our programs require cutting-edge quantitative skills and train students extensively in econometric and financial modelling, thus preparing them for data analysis, financial, banking, and research-oriented roles.

This graduate programs in Economics represents a significant milestone in our commitment to fostering excellence. The curriculum has been meticulously designed to impart rigorous training. It ensures that participants in the program possess a unique blend of theoretical knowledge and hands-on expertise in utilizing tools such as R, Python, and MATLAB. This dynamic curriculum equips our students with the ability to tackle real-world challenges while also providing a solid foundation for diverse career paths.

I am proud to share that our department's faculty strength is 32, which includes 26 regular faculty members. We are the largest economics department in the country. Our faculty members bring a wealth of research and industry experience to the classroom, enhancing the relevance of our curriculum. Their expertise ensures that our post-graduates understand economic theories and apply them effectively in dynamic professional settings.

As you consider potential candidates for your organization, I would like to invite you to explore the profiles of our Economics graduates. They are well-trained to make meaningful contributions to your team, bringing a unique blend of analytical prowess and economic insight.

Thank you for considering our graduates from the Department of Economic Sciences at IIT Kanpur. We look forward to the opportunity to collaborate and contribute to the success of your organization.

**Vimal Kumar
Professor & Head
Department of Economic Sciences**



MESSAGE

From the Faculty Coordinator, Economics Sciences

Indian Institute of Technology, Kanpur (IIT-K) stands at the forefront of recognizing the pivotal role of quantitative economic education. Our institution offers both undergraduate and Ph.D. programs in economics. These programs are meticulously designed to foster excellence and equip students with a unique blend of theoretical knowledge and practical skills.

Our undergraduates emerge as well-rounded economists, ready to tackle real-world challenges. They understand economic theories and their practical implications.

The curriculum emphasizes cutting-edge quantitative skills. Students become proficient in tools like R, Python, and MATLAB, enabling them to analyze complex data sets and make informed decisions.

Graduates find their niche in diverse fields—finance, banking, research, and policy. Their ability to bridge theory and practice makes them sought-after professionals.

The department also allows for various research projects and research opportunities to allow students to apply their skills and knowledge in practical experiences and practices.

Our MSc students are equipped with cutting edge technology tools that are the demand of today's industry. The talented pool is ready to acquire positions in the corporate world.

We invite you to connect with our talented pool of students during our placement season. By hiring from IIT Kanpur's Economics department, you'll gain access to bright minds ready to contribute to your organization's success.

Wasim Ahmed
Professor & Head
Department of Economic Sciences



MAJOR DEGREE PROGRAMS:

The department primarily offers four degrees in economics: 4 year B.S., 5 year B.S.-M.S. Dual Degree, 2 year M.Sc., and Ph.D. in Economics.

4-year B.S. & 5-year B.S.-M.S. Dual Degree



The 4-year B.S. program is structured to primarily train the students in economics with strong emphasis on econometric and mathematical techniques which are essential for economic analysis and modelling. The economics students also learn about sciences, technology and engineering through the common courses designed for all IITK students, irrespective of their department. The program also provides opportunities to write term papers. The 5-year B.S.-M.S. Dual Degree program is an extension of the 4-year B.S. program for interested and academically excellent students including a rigorous masters thesis.

2-year M.Sc.



Since 2023-24, the department also offers a two-year Master of Science (M.Sc.) program in Economics. The curriculum for the program has been designed to not only equip students to acquire core competencies as professional economists but also to leverage the unique combination of expertise at the frontiers of economics and technology at IIT-K to impart cutting-edge skills in emerging interdisciplinary areas

Ph.D.



The Ph.D. program is primarily designed for students interested in pursuing a career in teaching and research within academia. It is also useful for students interested in certain positions within governments, research organizations, or private businesses.

ACADEMIC CURRICULUM & SKILLS FOR BS/MS PROGRAM

In the 4-year B.S. and 5-year B.S.-M.S. Dual Degree programs, the economics students learn about sciences, technology and engineering through the common courses designed for all IITK students (4-year B.Tech. program included), irrespective of the department.

Institute Core		
Real Analysis and Calculus	Linear Algebra and ODE	Fundamentals of Computing
Engineering Drawing	Manufacturing Processes	Introduction to Electronics
Electromagnetism	Classical Mechanics	General Chemistry
Introduction to Biology	Physics Laboratory	Chemistry Laboratory
Department Core		
Microeconomics	Macroeconomics	Mathematical Methods
Probability and Statistics	Econometrics	Development Economics
Industrial Economics	International Economics	Indian Economic Problems
Department Elective		
Applied Game Theory	Economic Growth Theory	Bayesian Econometrics
Money and Banking	Financial Econometrics	Financial Economics
Monetary Economics	Market Design	Contract Theory
Time Series Analysis	Asset Pricing Theory	Labor Economics
Managerial Economics and	Machine Learning for	Public Economics and Public
Business Analysis	Economists	Policy
Production Economics and	Behavioral and Experimental	Economic Growth and
Efficiency Analysis	Economics	Geopolitics
Languages		
C, C++, R, Python, JavaScript, HTML, CSS	STATA, SAS, MATLAB, EViews, Excel Solver, GAMS, RATS	CMIE, CEIC, WITS, NSSO
Softwares		

ACADEMIC CURRICULUM & SKILLS FOR MSC PROGRAM:

The Master of Science (M.Sc.) in Economics program offers a comprehensive curriculum designed to equip students with core competencies in economics and cutting-edge skills in emerging interdisciplinary areas. Here's an overview of the program:

Department Core		
Microeconomics	Macroeconomics	Mathematical Methods
Probability and Statistics	Econometrics	Computational Methods in Economics
Economic Data Analysis	Applied Game Theory	Applied Macroeconomics
Department Elective		
Applied Game Theory	Economic Growth Theory	Bayesian Econometrics
Money and Banking	Financial Econometrics	Financial Economics
Monetary Economics	Market Design	Contract Theory
Time Series Analysis	Asset Pricing Theory	Labour Economics
Managerial Economics and	Machine Learning for	Public Economics and Public
Business Analysis	Economists	Policy
Production Economics and	Behavioural and Experimental	Economic Growth and
Efficiency Analysis	Economics	Geopolitics
Languages		
R, Python, SQL	Softwares	Databases
	STATA, MATLAB, EViews, Excel Solver	CMIE, CEIC, WITS, NSSO

PAST RECRUITERS

McKinsey
& Company



BCG

Goldman
Sachs

WORLDQUANT[®]

NOMURA

BlackRock

JPMORGAN
CHASE & Co.



HSBC

CapitalOne

BARCLAYS

CITI

pwc

EXL

EY
Building a better
working world

KPMG

Deloitte.



DEPARTMENT FACULTY

Vimal Kumar

Professor & Head of the Department

PhD (2008),

University of California, Irvine, USA

Thirumulanathan D.

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PhD (2017),

IISc Bangalore, India

Joydeep Dutta

Professor

PhD (1998),

IIT Kharagpur, India

Wasim Ahmad

Associate Professor

PhD (2014),

University of Delhi, India

Debayan Pakrashi Associate

Professor

PhD (2014),

University of Queensland, Australia

P. Murali Prasad

Professor

PhD (1999),

University of Hyderabad, India

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PhD (2007),

University of California Santa
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PhD (2009),

University of New York at Albany, USA

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PhD(1997),

Cornell University, USA

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PhD (2023),

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ISEC Bangalore, India

DEPARTMENT FACULTY

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