

MADRAS SCHOOL OF ECONOMICS

(INSTITUTION OF SPECIAL IMPORTANCE)





https://www.mse.ac.in/



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LinkedIn Profile: Placement Office, Madras School of Economics



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C. Rangarajan

Chairman, Madras School of Economics

66 A unique blend of teaching and research

MSE is not a general school. We focus on our core strengths of economics and finance with the quantitative rigor of analysis and litmus test of practical application. At MSE, we create an environment for our students to not only find their specific interests but also inspiration. After all, if we are going to fulfill our dream of a 5 trillion economy in 5 years, we need lots of inspired work!

Former Governor of RBI
Former Chairman of PM's Economic Advisor Council

Dr. N. R. Bhanumurthy

Director, Madras School of Economics

IOOL OF ECONOMICS

Well-trained, productive, and socially responsible students

With the help of six Post-graduate programs and two PGDM programs, MSE has a long tradition of undertaking research & training in economics and quantitative finance that caters to academia, financial markets, regulatory institutions, and consulting firms. One major area where MSE students are unique is their rigorous training in practical economics and finance theory applications. As India aspires to become an advanced nation by 2047, it is necessary to train young minds in that direction and make them more productive and socially responsible. We at MSE, with our strong curriculum and well-trained faculty, believe our students are all set to achieve the nation's dream.





MSE is an Institute of Special Importance, recognized by the MSE Act, 2020

Madras School of Economics (MSE) is one of the premier institutions in the country for post-graduate teaching and research in Economics, Finance, Environment, Management, and Data Sciences. Started as a non-profit institution, MSE was formed by a group of industrialists, academicians, and economists with a mandate to groom cohorts of qualified professionals who would impact the public policy and private industry of a vast, growing country.

The school is privileged to be led by the celebrated economist, former Chairman of PM's Economic Advisory Council, former Governor of RBI, Andhra Pradesh, and Padma Vibhushan awardee, Prof. Dr. C. Rangarajan.

MSE offers two full-time, two-year programs: the Post Graduate Diploma in Management (PGDM) and the Master of Arts (MA). The PGDM program includes two specializations: Research & Business Analytics and Finance. The MA program offers 5 specializations: General Economics, Financial Economics, Applied Quantitative Finance, Actuarial Economics, and Environmental Economics. Additionally, MSE also offers a BA (H) program in Economics and will be offering an M.Sc. in Data Science from the AY 2024-25, under its status as an Institute of Special Importance, recognized by the MSE Act 2020, Government of Tamil Nadu.

The dual emphasis at MSE on rigorous theory combined with practical real-world application ensures that MSE students are a class apart with functional skills readily applicable in the professional world.

FACULTY PROFILE

Dr. N. R. Bhanumurthy

Director & Professor Ph.D. (International Finance), ISEC, Bangalore

Dr. K.S. Kavi Kumar

Professor

Ph.D. (Development Economics), IGIDR, Mumbai

Dr. Saumitra Bhaduri

Professor

Ph.D. (Economics), IGIDR, Mumbai

Dr. Naveen Srinivasan

Professor

Ph.D. (Economics), Cardiff Business School, Cardiff University, UK

Dr. Brinda Viswanathan

Professor

Ph.D. (Economics), IGIDR, Mumbai

Dr. Rakesh Nigam

Professor

Ph.D., Stanford (Applied Physics)

Dr. Zareena Begum Irfan

Professor

Ph.D., Indian Institute of Technology Roorkee

Dr. Ekta Selarka

Associate Professor

Ph.D. (Economics), IGIDR, Mumbai

Dr. Amrita Chatterjee

Assistant Professor

Ph.D., Jadavpur University, Kolkata

Dr. Neelanjan Sen

Assistant Professor

Ph.D. (Economics), University of Calcutta

Dr. Parthajit Kayal

Assistant Professor

Ph.D. (Finance), IFMR

Dr. Devasmita Jena

Assistant Professor

Ph.D. (International Trade & Development), Jawaharlal Nehru University

Dr. Sanieev Vasudevan

Assistant Professor

Ph.D. (Economics), IIT Madras

Dr. Gautham Sekar

Assistant Professor

Ph.D. (Cryptology), KU Leuven

Dr. Gopal Krishna Roy

Assistant Professor

Ph.D. (Economics), Jawaharlal Nehru University

Dr. Aritri Chakravarthy

Assistant Professor

Ph.D.(Economics), Centre for Developmental Studies, Jawaharlal Nehru university

Dr. Poorna Narayanan

Assistant Professor

Ph.D. (Mathematics), IIT Madras

Dr. Arpita Choudhary

Assistant Professor

Ph.D. (Astronomy & Astrophysics), Thuringer Landessternwarte Tautenburg, Germany

Dr. Blessy Augustine

Assistant Professor

Ph.D. (Economics), IFMR

Dr. Purbita Jana

Assistant Professor

Ph.D. (Mathematics), University of Calcutta

Dr. Sweta Sen

Assistant Professor

Ph.D. (Economics), IIT Kharagpur

Dr. Rupel Nargunam

Assistant Professor

Ph.D. Actuarial Science, BSA Crescent Institute of Science and Technology, Chennai

Dr. Stefy Carmel

Lecturer

Ph.D. (Economics), Pondicherry University

Dr. Srikanth Pai

Assistant Professor

PhD (Electrical Communication Engineering) IISc, Bangalore

Dr. Aariya Sen

Assistant Professor

PhD (Management), IIM Kozhikode

Post Graduate Diploma in Management

MSE offers a Post-Graduate Diploma in Management with specializations in Research & Business Analytics (RBA) and Finance. The PGDM program at MSE is unique as we follow a quantitative approach built on the economics and finance legacy of MSE. Our curriculum creates professionals well-trained in economic/financial theories, programming, and develops strong knowledge in analytics. Our curriculum includes courses on data science and security such as big data, artificial intelligence and its applications to business, machine learning, deep learning, advanced analytical models for decision making, and cryptography. The PGDM program creates focused individuals ready to deploy their skills in the real world.

All our management students get a thorough grounding in mathematics, statistics, and econometrics. They are well-versed in python, financial analysis, and business applications. Their handson experience with data analytics, gained through their respective courses, which will enhance their strong implementation skills.

What uniquely distinguishes MSE management students is their ability to apply economic and analytical thinking to solve real-world problems, a natural consequence of MSE's core competencies in economics.



Career Paths



Data Science



Financial



Business Analytics and Intelligence



Management

58.8% **Experienced** (incl. internship)



13 MONTHS

Avg. Work Experience

Core Courses (1st year)

- Microeconomics
- Macroeconomics
- **Advanced Macroeconomics**
- Financial Econometrics
- **Stochastic Process**
- Supply Chain Management
- Quantitative Methods
- Optimization
- Analytics in Business
- · Financial management
- Probability
- Finance 1
- · Statistical Inference and Modeling
- Machine learning 1
- Corporate Finance
- Big Data
- Programming and Projects in Python

Electives (2nd year)

- Applied Multivariate Statistics
- · Advanced Analytical Models for **Decision Making**
- Algorithmic Trading
- AI Applications in Business
- Asset Pricing
- Computational Finance
- Derivatives and Options Pricing
- Financial Market Microstructure
- Stochastic Calculus
- Programming in SQL

M.A. Actuarial Economics

34.6% Experienced (incl. internship)

The program has been designed and developed as application-oriented unique, course economics relevant to todav's liberalized economic environment. The core course subjects lay the foundation for basic economic theory, and various specializations offered students with a practical understanding of how applied real-world these concepts are in economies. In the first year, the curriculum emphasizes Actuarial Mathematics and Financial Mathematics.

The department has collaborated with different institutions on various projects, including an analysis of the Tamil Nadu Pension System for the Expert Committee on Pensions.



Career Paths











Core Courses

- Actuarial Mathematics
- Economics of Insurance I
- Economics of Insurance II
- Finance and Financial Reporting
- · Risk Models

- Games and Information
- Advanced Techniques in Finance
- International Trade
- Finance Regulation
- Banking Supervision

M.A. Applied Quantitative Finance

45.2% Experienced (incl. internship)

The ability to adequately capture stylized facts in financial markets depends mainly on good models and their evaluations. Recent advances in Statistical, Econometric, and Analytical modeling techniques have enhanced the scope for a comprehensive and timely analysis of related issues. Consequently, there has been an exponential increase in the demand for qualified analysts.

The course is structured to present central concepts in analytics, mathematics, and computational details, with an emphasis on underlying institutional factors. Students are rigorously mentored to emerge as professionals with cutting-edge quantitative and analytical tools, highly valued by employers in the global financial markets.



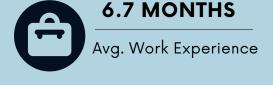
Career Paths











Core Courses

- Risk Analysis and Management
- Financial Instruments and Markets
- Interest Rate
 Calculation and Option
 Pricing

- Stochastic Models
- Fixed Income Securities
- Investment Banking
- Advanced Techniques in Finance Economic
 Policy Analysis
- Health Economics & Financing Development Economics

M.A. Environmental Economics

34.5% Experienced (incl. internship)

Growing evidence on economy-environment interlinkages and potential challenges that the world economy has to face due to global climate change are some of the principal motives behind introducing this two-year postgraduate degree program in Environmental Economics.

The objective of this program is to provide students with rigorous and specialized training in the economics of the environment. The degree is designed for individuals with a strong background in mathematics and good exposure to basic economics.

On the completion of a master's degree, all the students will have well-developed skills in quantitative analysis and modeling with an understanding of economic approaches to resolve the challenges of resource over-exploitation and misuse of the environment.

Department members have worked on projects sponsored by various national and international organizations including - MoEF&CC, GoI; GoTN; CPCB; DoE-TN and World Bank; GIZ; SANDEE; GDN; NCSCM, etc. The faculty members have also collaborated with various universities in and outside India.



Career Paths



Think-Tanks



Analytics





Consulting



Core Courses

- Resource and Environmental Economics
- Environmental Valuation
- Sustainable Development
- Environmental Policy

- Economics of Global Climate Change
- Environment & Health Trade
- Environment Ecological Economics

M.A. Financial Economics

33.3% Experienced (incl. internship)

Financial Economics at MSE is a niche course in finance meant to effectively cater to the needs of the fast-growing Indian financial sector. The students qualifying to take the course get trained to meet the demand for financial practitioners. They are well equipped with a good foundation in Economics, Mathematics, and Statistics facilitated by training in emerging theoretical and empirical tools to understand the financial sector better.

In the challenging economic scenario, MSE encourages students to emerge as enterprising finance professionals who don't just react and adapt to upcoming trends but are also capable of evolving as agents of change.

The department is involved with different institutions collaborating on various projects and research, such as GE Money – MSE Decision Science Lab. Rigorously mentored, equipped with leading quantitative and analytical tools, highly valued by employers in global financial markets.



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Career Paths





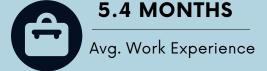
Private Equity





Corporate Financial Management





Core Courses

- Financial Economics
- Applied Macro and Financial Econometrics
- Financial Regulation and Banking Supervision

- Stochastic Models
- Fixed Income Securities
- Economics of Insurance
- Development
 Economics

M.A. General Economics

41.2% Experienced (incl. internship)

There is a renewal in the emphasis on the state as a regulator, and markets are likely to play a more central role in the exchange process of production and consumption. This will create interesting feedback between the macro and micro aspects of the economy thereby affecting wider economic developments.

The first two semesters focus more on the conceptual foundation of microeconomics, macroeconomics, statistics. and mathematical methods followed advanced courses. The last two semesters strengthen their skills analytical and communication with assignments/term papers and presentations/group discussions.

Faculty members have been involved with projects/consultancies that impact employment and the long-term welfare of citizens.

The department also collaborates with institutions like -National Council of Applied Economic Research, World Institute for Development Economics Research, Emergent Ventures (Mercatus Center, George Mason University), UNEP - Green Economy Report.



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Career Paths



Data Analysts



Policy Supervisors







• Industrial Organization

6.5 MONTHS

Avg. Work Experience

- Games and Information
- Development Economics
- Applied microeconomics
- Econometrics

- Stochastic Models
- International Trade
- Environment & Health Economics
- Economics of Insurance

M.Sc. Data Science

The M.Sc. Data Science program at Madras School of Economics provides a rigorous curriculum that equips students with essential analytical, technical, and problem-solving skills. By bridging theory and practice, the program prepares graduates to meet industry demands, tackle complex data challenges, and deliver innovative solutions across sectors. Students leverage advanced tools like machine learning, AI, big data, and cloud computing through real-world projects, gaining proficiency in data analysis, modeling, and effectively communicating results to drive business decisions.

In addition to technical expertise, our program emphasizes critical thinking, creativity, and adaptability - qualities that are essential for success in the fast-evolving world of data science. Distinctive in its approach, the program cultivates a unique blend of innovation, interdisciplinary expertise, and industry relevance, setting our graduates apart in the competitive field of data science.



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Career Paths







Financial Simulation and Modeling



Data Engineering and Security



Quantitative
Analytics & Business
Intelligence

33.3% Experienced

(incl. internship)



10.7 MONTHS

Avg. Work Experience

Core Courses

- Mathematics for Data Science
- · Statistics with R
- Programming in Python & MATLAB
- Introduction to Data Science
- Introduction to Artificial Intelligence
- Econometric Methods
- Cryptography & Blockchain
- Numerical Methods & Simulation Techniques in Finance
- Introduction to Machine Learning
- Verifications & Algorithms for Big Data
- Deep & Reinforcement Learning
- Big Data & Hadoop/Spark

- Stochastic Differential Equations in Finance
- Multivariate Statistics
- Big Data Visualization
- Time Series Analysis
- Large Language Models
- Stochastic Processes.
- Cloud Computing & Big Data
- Mathematical Finance
- Topology for Data Science.
- Game Theory
- Quantum Computing
- Medical Analysis
- Data Privacy & Security



RESEARCH CELL

Undertaking research is a crucial aspect of academic work at MSE. The research cell is an organization primarily driven by students, to promote economics-related activities on campus. This cell facilitates the convergence of econometric studies in quantitative economics and finance.

Athena, the annual school magazine of MSE gives a platform to students, academicians, corporate leaders, and social groups alike to express ideas, and opinions thereby promoting economics research, and finance resulting in diversified learning.

Website Link:

https://researchcellmse.wixsite.com/blog/about-us

NULL SPACE MSE PGDM

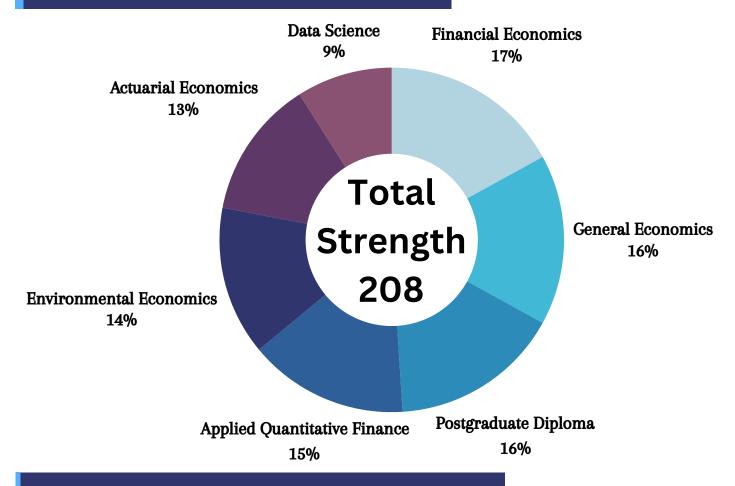
The Research and Analytics Cell of MSE PGDM students is known as Null Space. This is constituted to enable students to conduct quality research and do live projects in various fields.

Website Link: https://github.com/nullspacemse

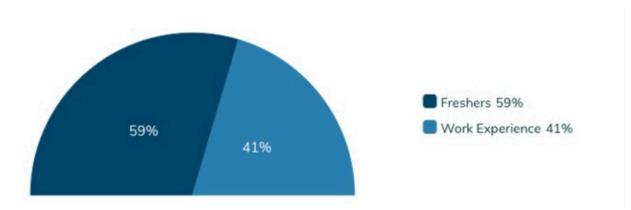


BATCH PROFILE

Programme-Wise Distribution



Work Experience and Gender Diversity



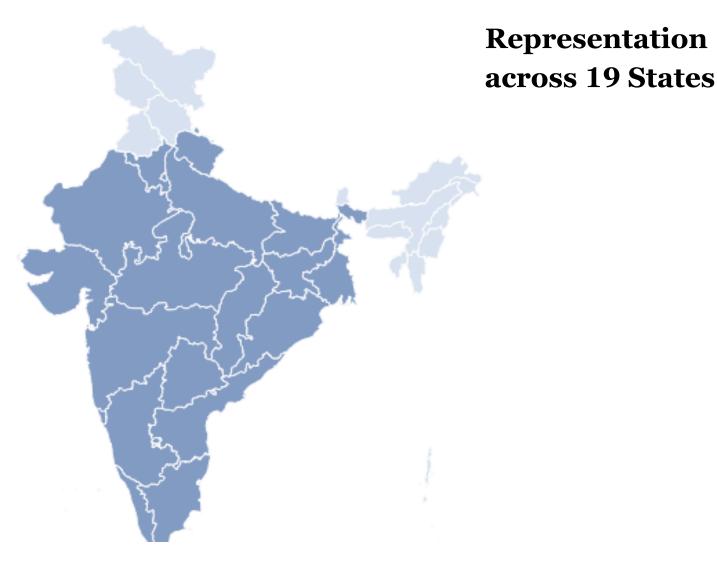
37% Male 62% Female

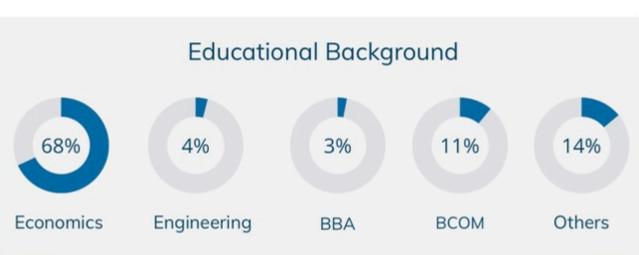




BATCH PROFILE

Batch Diversity





PAST RECRUITERS

PROMINENT RECRUITERS

















































Deloitte.





PAST RECRUITERS

































McKinsey & Company



















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Preethi V | 8883135555

M.A. Environmental Economics

Dyuti Das Mahapatra | 8925271549

M.A. Financial Economics

Shreya Das | 9330165656

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Ishika Goel | 7550066004



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