

TERI SCHOOL OF ADVANCED STUDIES PLACEMENT BROCHURE

MSc (Economics) 2018



Knowledge for Sustainable Development

Deemed to be University under Section 3 of the UGC Act, 1956
Accredited with grade 'A' by NAAC

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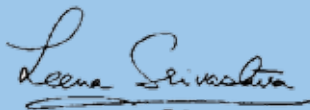
From the desk of Vice-Chancellor



TERI SAS can proudly say that its alumni are today part of the workforce of several forward-looking, sustainability-oriented corporates, agencies, consultancies, NGOs and even governments at all levels. The University is at the forefront of responding to global concerns on environment and sustainable development through knowledge creation and the development of a workforce that is empowered to guide sustainable economic growth and human well-being.

Building institutional and individual collaborations with like-minded Programmes/Universities, our faculty ensure that the knowledge we create/imbibe through state-of-the-art research in these areas keeps our learning curriculum cutting-edge, interdisciplinary and solutions oriented. This curriculum also benefits from a continuous feedback from academic peers at the national and global levels, from the employers of our students and from the students themselves—resulting in refined content and pedagogy on a periodic basis. The presence of international students and interactions with global experts ensures that a student of the TERI SAS is also comfortable in a multicultural setting.

With clearly identifiable areas of domain expertise, our students have the advantage of a systemic appreciation of problem solving needs through engagement with research projects, industry exposure and field visits. We are sure that our students will bring great value to your workforce and you will, while deploying them productively in your organization, give them the opportunity to hone their skills further for the greater global good. We would, of course, at all times value any feedback that you would like to offer us.



Dr Leena Srivastava
Vice-Chancellor
TERI SAS

From the desk of Pro-Vice Chancellor



Academic programmes at the TERI SAS are focused around the challenges of providing for a rising global population with a limited and degraded natural resource base. In moving towards sustainability, the implicit understanding is that there is no panacea or straight road, with recognized and established methodologies, tools or specializations leading to such development. The solutions therefore do not lie in a specific subject discipline, but must be appropriate and relevant to the context or the practical problem being addressed. Developing such an understanding among its students is best achieved through exposure to a variety of subjects, tools, and methodologies offered in interdisciplinary mode. This has been the guiding philosophy behind the programmes offered by the TERI SAS and is practised by building a theoretical understanding in courses covering a variety of traditional disciplines, such as ecology, natural and social sciences, governance, policy, law, and engineering.

At the TERI SAS, students are exposed to a new way of thinking that looks at problems not from the lens of a subject specialist, but from the perspective of one who recognizes the complex linkages between man and his environment.

The TERI SAS's programmes are unique, not only in terms of the degrees, but in terms of the fact that they equip the graduates to lead in a resource-sensitive world. The programmes leverage TERI's knowledge capital in sustainable development to deepen the social and ethical consciousness of higher education in India.

We are sure that you will find graduates of these programmes to be competent leaders with a holistic and long-term perspective for a world that demands new skills and attitude.

Your feedback will be most valuable to us, and we look forward to it.



Dr Rajiv Seth
Pro-Vice Chancellor
TERI SAS



ABOUT TERI School of Advanced Studies

The TERI SAS was established to disseminate the vast reservoir of knowledge devised by The Energy and Resources Institute (TERI), a not-for-profit, independent research institute recognized globally for its contribution to scientific and policy research in the realms of energy, environment, and sustainable development. TERI SAS's academic offering is rooted in the comprehensive research, consultancy, and outreach activities of TERI.

In 1999, the University was granted the "Deemed to be University" status by the University Grants Commission (UGC) and notified vide the Ministry of Human Resources Development, Department of Education, Government of India, notification no. F.9/19/95-U-3, dated October 5, 1999. Since its inception, the TERI SAS has offered not just world-class education, but also an environment that enables its students to develop fresh perspective in their subject areas. Before moving to Vasant Kunj, the University was housed in the Darbari Seth Block of India Habitat Centre from 1998 to 2008. In 2008, TERI SAS started functioning from its new 'green campus', located in Vasant Kunj. The University aspires to be an institution of advanced learning which meets the needs of a rapidly growing nation. The academic programmes are envisioned to provide the students with a holistic perspective of the subjects offered and encourage interdisciplinary learning.

Administration

The TERI SAS's Board of Management is responsible for its overall administration and control. All aspects of academic policy are under the purview of the Academic Council, chaired by the Vice Chancellor, which approves curricula, courses, and examination results. Furthermore, it appoints committees to look into specific academic matters arising from time to time.

Structure

TERI SAS has structured its academic programmes around the research experience and skill sets gained by TERI over the past three decades. Since its inception, the wide array of academic programmes offered by the University have been related to sustainable development and structured around four thematic areas—Biotechnology, Regulatory and Policy aspects, Energy and Environment, and Natural Resources. The University is a first-of-its-kind university in India to dedicate itself to the study of environment, energy, and natural sciences for sustainable development.

Department of Natural Resources

Aims to advance and impart knowledge about the environment and natural resources, including their characteristics and dynamics, their economic and societal value, and their management.

Department of Energy and Environment

Aims to advance and impart knowledge in aspects related to clean technologies, renewable energy management, and especially the interface between energy and the environment. Engaged in research in the broad area of clean technologies to achieve energy efficiency and minimize adverse environmental impacts.

Department of Biotechnology

Aims to advance and impart knowledge in the field of life sciences, emphasizing research and the interaction of science with society.

Coca-Cola Department of Regional Water Studies

Aims to advance knowledge and build core competencies among students, researchers, policymakers, and professionals in order to equip them to tackle the interwoven challenges of water sustainability, beyond cultural boundaries and across sectoral divisions.

Department of Business and Sustainability

Aims to provide research-based education that would equip students to implement an integrated approach to business sustainability.

Department of Policy Studies

Aims to achieve a critical mass of expertise and academic excellence that would provide a basis for influencing public policy and regulatory practice.

Centre for Post Graduate Legal Studies

Aims to be an interdisciplinary centre of excellence dedicated to legal research and teaching on issues pertaining to society and development.

Besides a set of core faculty members, the University also draws about 30 PhD qualified research professionals of TERI as adjunct faculty for its programmes. They have rich experience of working on projects related to regulatory studies, policy research, bioresources, biotechnology, energy, and environment.

ACADEMIC PROGRAMMES

At present, the following programmes are offered:

- PhD
- MSc (Environmental Studies and Resource Management)
- MSc (Geoinformatics)
- MSc (Climate Science and Policy)
- MSc (Plant Biotechnology)
- MSc (Economics)
- MSc (Water Science and Governance)
- MA (Public Policy and Sustainable Development)
- MA (Sustainable Development Practice)
- MBA (Infrastructure)
- MBA (Business Sustainability)
- MTech (Renewable Energy Engineering and Management)
- MTech (Urban Development and Management)
- MTech (Water Science and Governance)
- LL.M (specialisation in Environment and Natural Resources Law and Infrastructure and Business Law)
- Diploma in Water Science and Governance
- Diploma in Renewable Energy (distance education mode)
- Advanced PG Diploma in Renewable Energy (distance education mode)



The academic programmes offered by the TERI SAS focus on the challenges of providing for the rising global population with a limited and degraded natural resource base. In moving towards sustainability, there is no panacea, or straight road with recognized and established methodologies, tools or specializations. The solutions, therefore, do not lie in a specific subject discipline but must be appropriate and relevant to the context or the practical problem being addressed. Developing such an understanding among the students is best achieved through exposure to a variety of subjects, tools, and methodologies in the interdisciplinary mode. This has been the guiding philosophy of TERI SAS's programmes and is practised by building a theoretical understanding of courses covering a variety of traditional disciplines such as ecology, the natural and social sciences, governance, policy, law, and engineering. Over the duration of their study, students converge upon a few areas based upon their interest, having been exposed to a new way of thinking that looks at problems not from the lens of a subject specialist, but from the perspective of one who recognizes the complex linkages between man and the environment.

The TERI SAS uses modern pedagogical tools, richly supplemented by field visits, live industry projects, and hands-on applications. It provides the best equipment and instruments, which includes state-of-the-art computer hardware and software, well-equipped laboratories, video-conferencing facilities, and access to South Asia's most comprehensive library on energy and environment. TERI SAS was awarded the India Today award for the most innovative curriculum. It has also received grade "A" accreditation by National Assessment and Accreditation Council (NAAC).

Collaborations

Stressing the importance of the international perspective in its programmes, TERI SAS has entered into Memorandums of Understanding (MoUs) with several international universities aimed at facilitating a mutually beneficial exchange of students, faculty, knowledge, resources, and ideas.

The TERI SAS encourages the exchange of ideas, cultural understanding, and a wide range of knowledge that would result from international exposure. In 2007, the University launched an academic exchange programme with Yale University (School of Forestry and Environmental Studies) with support from the V K Rasmussen Foundation. In 2008, the University launched another academic exchange programme with Freie University of Berlin, Germany, with support from DAAD (the German Academic Exchange Service).

TERI SAS has also signed MoUs for academic collaborations with North Carolina State University, University of Eastern Finland, Tor Vergata Economic Foundation (Rome, Italy), Utrecht University (Utrecht, The Netherlands), Carleton University (Canada), Simon Fraser University (Canada), Deakin University (Australia), University of Technology (Sydney).



ACADEMIC CHAIRS AT THE UNIVERSITY

Indian Railways Chair for Sustainable Mobility

The Ministry of Railways, Government of India has set up an Academic Chair on Sustainable Mobility at TERI SAS which serves to bring the most competent academicians/professors from the field of rail infrastructure to lend strength to the ongoing research activities at the University. The Chair involves itself in the issues of rail infrastructure and greening of the railways.

UNESCO Chair

TERI SAS has been granted a UNESCO Chair in Climate Science and Policy. This is a prestigious award and is given to very few universities across the world. The TERI SAS has already tied up with various global universities for being partners in the UNESCO Chair. This includes the Scripps Institute of Oceanography, La Jolla, California, and the Yale Climate and Energy Institute at the Yale University, USA. The Chair serves as a means of facilitating collaboration between high level, internationally recognized researchers and teaching staff of the University and other institutions, particularly in India and other countries in Asia and the Pacific, as well as in Europe and North America.

HUDCO Chair

HUDCO has established an Academic Chair at the TERI SAS with the objective to accelerate research and development, training, and capacity-building in the habitat sector, facilitate capacity-building of urban local bodies, and promote research in the field of urban development and related areas.

INFRASTRUCTURE

Green Campus

TERI SAS has a 'green' campus. It puts into practice the very principles taught in its classrooms. An architectural delight, the campus has been planned to provide a setting that enhances learning, while simultaneously showcasing the concept of modern green buildings. Spread over two acres, the campus comprises an administrative block, an office block, a convergence and hostel block. The green building has 10 classrooms, each having a capacity for seating 32 students, three lecture halls with a capacity for 60, and an auditorium with a capacity for 100 to 150 persons. The building also has 10 well-equipped laboratories to complement cutting-edge research at the TERI SAS. The campus is aesthetically designed with several features of passive energy-saving design, energy-efficiency, and water and waste management systems.

Green Features

- Insulation of external walls
- Insulation on terrace done with vermiculite and puff insulation topped with China mosaic for efficient heat reflection
- Double insulation synergy azure glass is used in external façade with aluminum glazing
- Earth Air Tunnel (EAT), Thermal Mass Storage, and Variable Refrigerant Volume (VRV) systems are used for cooling the building
- Hunter Douglas louvers are used in the building for controlling the intensity of incoming sun rays
- Solar water heating system
- Waste water recycling with STP
- Rainwater harvesting

TERI SAS Laboratories

TERI SAS harnesses the best of modern technologies to support and encourage the intellectual curiosity of its students and faculty. It also has laboratories with advanced equipment and facilities to aid and stimulate research.

Solar Lighting Laboratory

TERI SAS has established a Solar Lighting Laboratory (SLL) which is a first-of-its-kind laboratory in India and achieved the NABL's accreditation (National Accreditation Board for Laboratories) as per IEC 62257-9-5 ed. 2.0. The laboratory adheres International Electrotechnical Commission (IEC), an international body that sets standards for all electrical, electronic and related technologies throughout the world standards for the testing of Solar Lighting Systems (SLS) and also recognized under the Lighting Global programme of International Finance Corporation (IFC). The laboratory is also supported by the Ministry of New and Renewable Energy (MNRE) and has sophisticated equipment and test setup that is used for testing lighting products.

The laboratory's facility is available for testing as per IEC and MNRE specifications for various lighting systems (both solar-based lighting and general lighting). The laboratory has also carried out various training programmes for different target groups. So far, SLL has tested more than 200 models of solar lighting systems including solar lanterns, solar home lighting systems, solar task lights, and multi-purpose solar lights. The ability of the laboratory to cater to the testing needs of both rural as well as urban lighting infrastructure makes it stand out from other laboratories. The laboratory is working towards strong quality assurance and testing programmes which will help in building consumer confidence towards the solar lighting products. The IFC's Lighting Asia-India programme is working with the University to achieve these goals.

As a way forward for the development and expansion of this laboratory, it is further planned to be linked with several other groups or programmes that require general lighting system (GLS) testing. The supreme testing equipment and authority for high quality assurance can lead to the transformation of the laboratory into a nodal agency for general (solar) lighting system testing not only for India, but entire Southeast Asia.



Environmental Monitoring Laboratory



The Environmental Monitoring laboratory (EML) is capable of providing practical training to the students through structured laboratory curriculum, including all kinds of relevant soil, water, and air monitoring experiments required at the master's level. It caters to the interdisciplinary application in research to all the students of the University.

The EML is state of art laboratory equipped with instruments such as UV-Visible Spectrophotometer, GRIMM Aerosol Spectrophotometer, Respirable Dust Sampler, High Volume Sampler, Gaseous Monitoring Kit, Handy Low Volume Air Samplers, Stack Monitoring Kit, PH Meter, Muffle Furnace Ion Selective Electrode, Turbidity Meter, Conductivity Meter, Jar Test Assembly, COD Digester (Reflux), BOD Testing Apparatus, Sensitive Balance, Bomb Calorimeter, Kjeldahl Unit, Microscope (Primostar Halogen), Muffle , TSI Optical Sizer, Potable As Analyzer, Q Track–Indoor Air Quality Monitors And Q Track– Velocicalc.

Combustion Laboratory

The Combustion laboratory has been established to test the performance of cookstoves based on energy efficiency as well as emissions using nationally and internationally accepted protocols such as Water Boiling Test (WBT), Controlled Cooking Test (CCT), and the Indian Standard on Solid Biomass Chulha Specification (BIS India). The hood method is used to capture and quantify the various products of incomplete combustion. The following instruments and support facilities are available in the lab: Moisture Meter, Bomb Calorimeter, Equipment to maintain isokinetic conditions, Aerosol Spectrometer And Dust Monitor, Low Flow Air Samplers (attached with SKC pump) for collection of bulk aerosols for characterization, Potable Gas Analyzer Digital Infrared Thermometer

Geoinformatics Laboratory

The Geoinformatics Laboratory at the TERI SAS is well equipped with state-of-the-art equipment such as high-end computers (workstations), scanner, digitizer, printer, navigation devices, Infra-red thermometers and others. It has licensed version of high-end latest commercial software like ERDAS Imagine, LPS, ArcGIS, GMS, and WEAP along with other advanced support system's mechanism. The laboratory is also equipped with web publishing tools like ArcGIS Advance and ArcIMS Servers. The laboratory is also equipped with various open source geospatial softwares, to expose our students to the powerful open source environment.

The laboratory also holds a good repository of geospatial information in both digital and hard formats.

The Geoinformatics laboratory of the Natural Resources Department of TERI SAS also operates through a network with several research institutions working in the arena of Geoinformatics and other associated fields both within and outside the country. We also support research and development activities of the country wide network of The Energy Resources Institute (TERI) branches located across the country.

Biotechnology Laboratory

Biotechnology laboratory is fortified with fundamental and advance facilities required for radical teaching and research applications in plant biotechnology. The laboratory is furnished with autoclave for sterilization, Biosafety Cabinet, Centrifuges, Conductivity Meter, Deep Freezers,

Digital PH Meter, Gas Chromatography, Gel Documentation System, Ice Flaking Machine, Magnetic Stirrer, Microscopy Facilities, Nano-Drop Spectrophotometer, Refrigerated Shaking Incubator, Plant Growth Room, Vortex Shaker with Touch Plate, Water Bath for Incubations, Laminar Air Flow, Master Cycler among other basic infrastructure. Additionally, the Bioinformatics laboratory with work station dedicated computer systems facilitated with advanced software, such as MATLAB, GCK, PAUP, and MacVector exists for 'in- silico' applications. Further, the plant biotechnology course is augmented by the support from research laboratories involved in research activities led by the faculty members in the areas of Genomics and Plant Development Biology, Nanobiotechnology, Bioinformatics, Microbial genetics and pathogenesis, Stress Physiology and Structural Biology.



Power System Laboratory

The Power System Laboratory gives a comprehensive idea about the practical aspects of power system infrastructure. The generated electrical power is transmitted through transmission lines and used mostly in rotating machines. The state-of-the-art laboratory infrastructure is equipped with the experimental facilities for providing training on transmission lines, DC machines, induction motors, synchronous machines, and transformers. The laboratory gives the opportunity for experimental verification of performance characteristics of the power system equipments along with exposure of modern day technologies for solving modern day power system problems. The experiments are designed keeping in mind the multidisciplinary approach of the students coming from different engineering and science backgrounds.



Heat Transfer Laboratory

The Heat Transfer Laboratory is designed to incorporate the practical concepts of heat and mass transfer applied to renewable energy systems and energy conservation techniques. The experiments are designed to give comprehensive knowledge of heat transfer through conduction, natural convection, forced convection and radiation. The lab is fully equipped with experiments on heat exchanger. It also provides knowledge of boiling and condensation processes. The lab explores the basics of mechanical engineering and is designed such that the students are able to acquire interdisciplinary knowledge in an easy way.



Energy Simulation Laboratory

Energy Simulation Lab enhances the soft computing skills of the students and enables them for modelling and simulation of energy systems. The laboratory experiments are designed to experimentally verify what they have learnt in the previous laboratories through software applications. The experiments are carried out using renewable energy simulation softwares viz. PVsyst for Solar PV, WAsP for wind, RET Screen for renewable energy project management, HOMER for microgrid applications. MATLAB is also discussed to be used for power flow solutions especially in renewable energy sector

Biofuel and Waste Utilization Laboratory

The Biofuel and Waste Utilization Laboratories are distributed between the TERI SAS and TERI Gram at Gual Pahari, Gurgaon. Combustion process and fuel properties such as proximate analysis, COD, etc., are studied at the lab in TERI SAS, while experimental studies on biomass conversion processes such as gasification, biomethanation, and pyrolysis are carried out on facilities at TERI Gram.

TERI SAS Library

The TERI SAS library supports the university's academic and research programmes by meeting the information requirements of students, researchers, and faculty members. Electronic and print resources are available in Natural Resources, Environment, Sustainable Development, Plant Biotechnology, Geoinformatics, Renewable Energy, Infrastructure, Regulations, Public Policy, and related areas.



The Digital Library provides access to electronic books, journals, databases, PhD theses, CDs, links to resources, news, and information alerts about the library. The online bibliography database of the university library can be accessed to search any particular title using the author's name, keyword or title itself. The faculty and students can retrieve online information from the dedicated



terminals situated in the library. Network resource sharing facilities are provided through DELNET and interlibrary loan services from the libraries of other universities and institution, such as American Information Centre, Delhi University, Indian Institute of Technology (IIT), Jawaharlal Nehru University (JNU), and more.

Electronic Resources: Theses/ Dissertations (Submitted by the TERI SAS Students), E-journals and

Databases: JSTOR/SCIENCE DIRECT /SPRINGER/OPEN ACCESS JOURNALS, E- Books, E-Government Documents and Reference Collection, In-house publications (Newsletters and Journals), Electronic articles and journal content-page alert services are available along with access to holdings of national and international university libraries.

BOARD OF MANAGEMENT

Chairman

Dr Leena Srivastava

Vice-Chancellor, TERI SAS

Members

Dr Rajiv Seth

Pro Vice-Chancellor, TERI SAS

Deans

Dr Prateek Sharma

Dean (Academic), TERI SAS

Dr Arun Kansal

Dean (Research and Relationships), TERI SAS

Three Eminent Academicians Nominated by
the Chancellor

Dr Dipankar Gupta

Former Professor in the Centre for the Study of
Social Systems, JNU

Dr Ashok Gulati

Infosys Chair Professor for Agriculture, ICRIER

Dr Ashok Khosla

Chairman, Development Alternatives

Nominee of the Government of India

Air Marshal K K Nohwar (Retd)

Nominee of Sponsoring Society

Mr Inder Walia

Former Group Director (HR), Bharti Enterprises

Mr Tulsi R Tanti

Chairman and Managing Director, Suzlon
Energy Limited

Ms Anita Arjandas

MD and CEO, Mahindra Lifespace Developers
Ltd.

Mr Ishteyaque Amjad

Vice President (Corporate Affairs),Coca Cola
India Pvt. Ltd.

Dr Alok Adholeya

Honorary Advisor, Sustainable Agriculture
Division, TERI (Co. Opted)

Two Teachers (from Professor and Associate
Professor)

Dr Smriti Das

Associate Professor, Department of Policy
Studies, TERI SAS

Dr Anandita Singh

Professor, Department of Biotechnology, TERI
SAS

One Teacher of the Rank of Assistant Professor

Dr Soumendu Sarkar,

Assistant Professor, Department of Policy
Studies, TERI SAS

Controller of Examination

Dr Seema Sangita

Assistant Professor, Department of Policy
Studies, TERI SAS

Registrar

Capt Pradeep Kumar Padhy(Retd)

TERI SAS

ACADEMIC COUNCIL

Chairperson of the Council

Dr Leena Srivastava

Vice-Chancellor, TERI SAS

Dr Rajiv Seth

Pro Vice-Chancellor, TERI SAS

Deans

Dr Prateek Sharma

Dean (Academic), TERI SAS

Dr Arun Kansal

Dean (Research and Relationships), TERI SAS

Heads of the Departments

Dr Sapna Narula

Department of Business and Sustainability, TERI SAS

Dr Suresh Jain

Department of Energy and Environment, TERI SAS

Dr Sudipta Chatterjee

Department of Natural Resources, TERI SAS

Dr Chaithanya Madhurantakam

Department of Biotechnology, TERI SAS

Dr Nandan Nawn

Department of Policy Studies, TERI SAS

Mr M V Shiju

Centre for Post Graduate Legal Studies, TERI SAS

Professors

Mr S Sundar

Emeritus Professor, Department of Policy Studies,
TERI SAS

Dr Anandita Singh

Professor, Department of Biotechnology, TERI SAS

Associate Professors from Departments

Dr Naqui Anwer

Associate Professor, Department of Energy and
Environment, TERI SAS

Assistant Professors from the Department by Rotation of Seniority

Dr Anu Rani Sharma

Assistant Professor, Department of Natural
Resources, TERI SAS

Ms Fawzia Tarannum

Lecturer, Department of Regional Water Studies,
TERI SAS

Nominees of the Vice Chancellor

Dr Kanchan Chopra

Professor and Former Director, IEG

Dr Malathi Lakshmikumaran

Director, Lakshmikumaran & Sridharan

Dr T C Kandpal

Professor, Centre for Energy Studies, IIT Delhi

Co-opted Members

Dr Anubha Kaushik

Professor and Dean, School of Environment
Management, GGSIU

Dr Vivek Suneja

Dean(Planning), FMS, Delhi University

Dr Rakesh Khosa

Professor, Department of Civil Engineering,
IIT Delhi

Secretary

Capt Pradeep Kumar Padhy

Registrar, TERI SAS

Programme Outline

The M.Sc. in Economics (with specialisation in Environment and Resource Economics) programme aims to apply economic theory to real world situations with special focus on ecological, environmental and natural resource issues. The specialised nature of the programme makes it unique, challenging and relevant.

The programme is designed to provide students with a balanced exposure to both theoretical and empirical methods for research and practical application in diverse real world situations. Subjects like microeconomics, macroeconomics, international trade, economics of natural resources, etc. build conceptual knowledge of students and subjects such as basic and advanced econometrics, time series, and regression provide the required empirical training.

In addition to the written exams, there is an emphasis on developing research skills among the students. The students are required to submit literature surveys and term papers in the first two semesters to develop their analytical and writing skills. From the third semester onwards, all the elective courses include a critical review of classic literature in the form of referee reports and presentations. This is accompanied by the compulsory thesis component to provide students hands-on opportunity to apply economic concepts and methods to tackle a wide range of real problems and policies.

The students are encouraged to apply for a summer internship at the end of second semester, which gives them an exposure to into applied research as conducted at think tanks and industries. In the past, our students have interned with organisations like Institute of Economic Growth, FICCI, Ministry of Finance, KPMG, India Infrastructure Publishing among many others. Our graduates have obtained placements in prominent Government organizations Corporations, think-tanks, international organizations, civil society organizations, and research institutes of repute. The list of our recruiters include The Reserve Bank of India, Tata Trust, Ministry of Finance, NIPFP, CII, ICRIER, Niti Ayog, India Infrastructure among many others. Students also opt for higher studies in academic institutions like Centre for Development Studies, Delhi School of Economics, Jawaharlal Nehru University, Yale University, John Hopkins University, University of Warwick, University of California Riverside, University of California Irvine, University of Vanderbilt, Indian Statistical Institute and others.

Programme Structure

Year	Courses	Credit	Duration	Writing Assignments
Semester 1	Five core courses with 4 credit for each course	20	15 weeks	1
Semester 2	Five core courses with 4 credit for each course	20	15 weeks	5
Semester 3	One core course of 4 credit + choice of 4 electives of 3 credits each + thesis proposal of 4 credit	20	15 weeks	4 + Thesis
Semester 4	Master thesis of 20 credits + choice of 2 electives of 3 credits each	26	15 weeks	3 + Thesis

The students are required to undertake 12 core courses and 6 electives. The purpose of electives is to allow students to choose the courses they wish to specialize.

Core Courses:

- Microeconomics
- Macroeconomics
- Quantitative Methods
- Constrained Optimization and Linear Algebra
- Indian Economics and Development
- Econometrics
- Economic and Environmental Development
- Theory of Environmental Policy
- Game Theory
- Economics of Natural Resources
- Techniques of Environmental Valuation
- Master's Thesis

Elective Courses

- Advanced Econometrics
- Time Series and Regression Analysis
- Ecological Economics
- Trade and Environment
- Energy Economics
- Indian Agriculture in a Global setting
- Labour Economics
- Economics of Health & Environment
- Law and Economics
- Public economics
- Theory of Finance
- Collective Action and Environmental Management
- Industrial Organization
- Theory of economics

Students are also allowed to fulfil their elective credit requirement wholly or partly with courses offered in other programmes subject to the approval of the Programme Coordinator. Among others, they include the following:

- Water Resources Economics
- Corporate Finance
- Economics of Climate Change

The students are equipped with the knowledge of quantitative techniques, such as statistics, econometrics, time series, and environmental valuation. Also, students are well-trained in using statistical and econometric software, such as R, STATA, SPSS, and JMulTi. The syllabus for the programme is frequently revised to be in tune with the most recent trends and is evaluated by external academicians.

Master's Thesis

The final year involves a Master's Thesis that provides students a unique hands-on opportunity to demonstrate their ability as research professionals by applying economic concepts and theories to wide range of environmental & development issues and policies. Each student is supervised by one or more faculty members and is reviewed extensively by panel of experts to ensure quality, originality, and rigor of research/ground work. Each student is required to identify a research gap, conceptualize the problem, find the methodology best suited to the problem, establish the results empirically using the statistical and econometrics techniques, and finally, discuss the policy implications. The quality of dissertations has been appreciated in various forums and national and international conferences. Some of these dissertations have also been published as academic articles in peer-reviewed journals.

Faculty Profiles



Sukanya Das, Ph.D. (Jadavpur University)

Dr. Das teaches courses in Health and the Environment, Economics of Natural Resources and Environmental Valuation Techniques. Her research interests lie in Environmental Valuation and Policy. Her work on water and wastewater management, agriculture, poverty, textiles and urbanisation has appeared in several edited volumes and journals.



Shantanu De Roy, Ph.D. (Jawaharlal Nehru University)

Dr. De Roy teaches courses in Macroeconomics, Indian Agriculture in a Global Setting and Labour Economics. His research interests include Agrarian Studies, Indian Economy, Labour Economics and Development Economics. His work has been published in journals like Economic and Political Weekly, Indian Journal of Agricultural Economics and Indian Journal of Labour Economics among others.



Nandan Nawn, Ph.D. (Jawaharlal Nehru University)

Dr. Nawn is an economist by disciplinary training with a doctoral degree from Jawaharlal Nehru University. He teaches various courses in the interface of Environment, Development, and Economics. His research interests lie in Ecological Economics, Agrarian Studies, and Environment and Development. His works have been published in various journals including Journal of Agrarian Change, Economic and Political Weekly, and Journal of Human Development and Capabilities. He has co-edited 'Economic Challenges for the Contemporary World: Essays in Honour of Prabhat Patnaik' (2016) and 'Global Change, Ecosystems and Sustainability' (2017), both from Sage. Presently, he is a guest co-editor of the "Review of Environment and Development" in Economic and Political Weekly, the Secretary of the Indian Society for Ecological Economics (INSEE) and the Head of Department of Policy Studies, TERI SAS.

**Seema Sangita, Ph.D. (University of California, Davis)**

Dr. Sangita teaches courses in Statistics, Indian Economy and Trade and the Environment. Her research interests include International Trade, Migrations, Urban Economics, Economic Growth and Development. Her recent work on the impact of diasporic networks on international trade has been published in Review of International Economics

**Kavita Sardana, Ph.D. (University of Georgia, USA)**

Dr. Sardana teaches courses on Econometrics and Time Series. Her research interests include non-market valuation of environmental goods and services and Microeconometrics. Her work has been published in Journal of Public Economic Theory, Journal of Environment and Management and Crop Science. She received a SANDEE grant award (2014-16) to design economic incentives to restore native species on coffee plantations in Kodagu, Karnataka

**Soumendu Sarkar, Ph.D. (Indian Statistical Institute)**

Dr. Sarkar teaches courses on Microeconomic Theory, Mathematical Economics, Game Theory and Theory of Finance. His research interests include Auctions, Mechanism Design, Game Theory and Contract Theory. His recent work on mechanism design for land acquisition has been published in journals like International Journal of Game Theory and Mathematical Social Sciences.

EVENTS AND ACTIVITIES

The students of MSc Economics believe in a holistic approach to life, which is evident from their avid participation in academic as well as co-curricular activities. Some of the events that saw active participation by the students are listed below:

Economics Seminar Series (for the Academic Year 2016 – 17)



**Dr. Shouvik Chakraborty (PERI-UMass Amherst) speaking on An Egalitarian Green Growth Programme for India (18 January, 2017)*



**Prof. Arup Mitra (Institute of Economic Growth, New Delhi and Director General, NILERD) Speaking on Informal Sector: The Inter Sectoral Linkages (September 14, 2017)*



**Dr. Rajeswari Sengupta (Indira Gandhi Institute of Development Research) and Mr. Pratik Datta (National Institute of Public Finance and Policy) Speaking on India's New Corporate Bankruptcy Law (9 November, 2016).*

Speakers:

Dr. Sugata Bag (Delhi School of Economics)	Urban Deprivation and its Correlates in Slums of Three Indian Metro Cities: Monetary Vs. Multidimensional Approach (17 August).
Dr. Anamitra Roy Chowdhury (Centre for Informal Sector and Labour Studies, JNU)	Application of Labour Laws, Employment Outcome and Assessment of Workers' Bargaining Power: Some Recent Trends from India (7 September).
Professor Pinaki Chakraborty (National Institute of Public Finance and Policy)	GST Reforms: Key Challenges (14 September).
Dr. Anirban Dasgupta (South Asian University)	Agriculture and Accumulation in India: A Ruptured Link? (28 September).
Dr. Indranil Mukhopadhyay (Public Health Foundation of India)	Health Care Financing in India: A Tale of Plunder, Catastrophe and Political Neglect (19 October).
Dr. Rajeswari Sengupta (Indira Gandhi Institute of Development Research)	India's New Corporate Bankruptcy Law (9 November).
Mr. Pratik Datta (National Institute of Public Finance and Policy)	India's New Corporate Bankruptcy Law (9 November).
Dr. Shouvik Chakraborty (PERI-UMass Amherst)	An Egalitarian Green Growth Programme for India (18 January 2017)
Dr. Priya Bhagowalia (Centre for International Trade and Development, JNU)	The Impact of Public Distribution System on Food Security (1 February 2017).
Dr. Dipa Sinha (School of Liberal Studies, Ambedkar University Delhi)	Women Status in a Changing Village and a Changing India (15 February, 2017).
Prof. Sangeeta Bansal (Centre for International Trade and Development, JNU)	Corporate Social Responsibility Act in India: An Early Assessment (22 March 2017).
Dr. Ananya Ghosh Dastidar (Department of Business Economics—University of Delhi South Campus)	Policy Challenges in the Emerging Market Economies (EMEs) in the Wake of Global Financial Crisis (12 April 2017).

Economic Seminar Series for the Academic Year 2017-18

<p>Dr. Murali Kallummal (Centre for WTO Studies, Indian Institute of Foreign Trade)</p>	<p>Three Decades of Multilateralism: Rise of Domestic Regulation as a Major Determinant of International Trade (17 August 2017).</p>
<p>Dr. Surajit Das (Centre for Economic Studies and Planning, JNU)</p>	<p>Impact of the GST on Indian Economy (31 August 2017).</p>
<p>Prof. Arup Mitra (Institute of Economic Growth, New Delhi and Director General, NILERD)</p>	<p>Informal Sector: The Inter Sectoral Linkages (September 14, 2017)</p>
<p>Dr. Amit Thorat (CSR, JNU)</p>	<p>Mindsets, Beliefs and outcomes (November 9, 2017)</p>

Short-term Training Programme on

“Data Science Applications for Sustainability”

July 10-12, 2017



TERI SAS has organized a short-term 3 days training programme from 10-12th July, 2017 on Data science applications for sustainability. The idea was to understand how field of data science can be useful for applications under three pillars of sustainability and integration among them. Focusing one pillar in a day, we had sessions focusing on environmental, social and economic sustainability, and the last session on integration of all through data science. On the first day, the experts discussed environmental sustainability and analysis using empirical approach. Often analysis is carried out using both spatial and non-spatial data. The second day was devoted

on social sustainability aspect. Similarly, the field of data science is playing huge role in the field of medical research and health care by providing holistic view of the system ranging from public health and biomedical science, mimicking expert opinion (e.g., IBM Watson etc.), and by generating self-learning systems. The third day was focused on economic sustainability. The expert in the area highlighted on the usage of data science and its applications, where it is used and how the data can be generated and explained using econometric models in time series and panel data. He explained about the software like R and Python with hands on session on R.

Field Trip to Madhya Pradesh:

Students from the MSc. Economics batch of 2016 – 18 got an opportunity to meet with the Honourable Chief Minister of Madhya Pradesh Shree Shivraj Singh Chauhan during March 2017 as part of the field trip undertaken by the students in the second semester.

The students got an opportunity to review the challenges and achievements of the Narmada Seva Yatra by conducting primary survey during the education tour. The survey highlighted the importance of awareness regarding policies, community empowerment and reshaping of social practices at the grass root level for better implementation of policies.



Students of MSc Economics with Sh. Shivraj Singh Chauhan, Chief Minister for the state of Madhya Pradesh.



Proficiency in econometrics and statistical softwares: The programme equips students with quantitative techniques such as statistics, econometrics, time series, and environmental evaluation. Students are well trained in using econometrics software such as STATA, Eviews, R, etc. as well as in modelling, forecasting, and analysis.

Ability to think: The Master's Thesis and several term papers that students write throughout the course not only help build their analytical thinking but also encourages students to think about various economic problems and to apply the knowledge acquired throughout the course.

Presentations: Presentation forms a very important part of the student evaluation. It helps built conceptual clarity and trains the students to present their ideas in a logical and coherent manner. Also, at the final stage of thesis, students are required to present their final analysis to a panel of experts and peers. This ensures a better comprehension of the concepts and also trains them to present their ideas in a coherent and logical manner.

STUDENT'S PROFILE



Ambica Chopra



Academic background	BA(H) Economics, Gargi College, University of Delhi
Internship	Ministry of Finance, Government of India (May-July 2017)
Area of interest	Advanced Econometrics, Time Series, Ecological Economics, Health and Environment.
Thesis Title	Estimating Marginal Value of Safety in Indian labor market

Amit Singh



Academic background	BA (H) Economics, Deshbandhu College, University of Delhi
Internship	IFCI Factors Limited(May-July 2017)
Area of interest	Advanced Econometrics, Time Series and Regression Analysis, Indian Agricyulture in Global Setting, Economics of Health and Environment.
Thesis Title	Energy Efficiency Analysis for LED Bulbs in New Delhi

Anjali Agarwal



Academic background BA(H) Economics, Kirori Mal College, University of Delhi

Internship NITI Aayog (May-June, 2017)

Area of interest Microeconomics 2, Time series and regression analysis, Advanced econometrics, Economics of health and environment.

Thesis Title

Arihant Jain



Academic background BA (H) Business Economics

Internship Council of Energy Environment and Water (May-July 2017)

Area of interest Advanced Econometrics, Indian agriculture in Global Setting, Time Series, Economics of Health and Environment.

Thesis Title Interaction analysis: case of electricity discoms

Ashmita Bandyopadhyay



Academic background BA Economics (H), Vivekananda College, University of Delhi

Internship National Council of Applied Economic Research (May-July 2017)

Area of interest Time Series, Indian Agriculture, Economics of Health and Environment.

Thesis Title Measuring the Ecological Footprint of Tourism in India

Bhakti Anand



Academic background BA (H) Business Economics

Internship Office of MP Gajendra Singh Shikawat, Lok Sabha (May-July 2017)

Area of interest Advanced Econometrics, Time Series Regression, Indian Agriculture in Global Setting, Economics of Health and Environment.

Thesis Title Sustaining the Use of Biochar- An Economic and Ecological Dimension

Devleena Nag



Academic background	BA Economics(H), Shaheed Bhagat Singh College, University of Delhi.
Internship	Ajnasy Tech Solutions Pvt Ltd (June 2017)/Campus Dope (Oct-Mar2014)
Area of interest	Microeconomics 2, Indian Agriculture in a global setting, Economics of Health and Environment, Ecological Economics.
Thesis Title	Economic Growth and Women workforce participation in Delhi NCR

Karan Bhasin



Academic background	BSc Economics (H), London School of Economics and Political Sciences, University of London International Programmes
Internship	Convergence International Pvt. Ltd. (2017), C I Network Technologies Pvt. Ltd.(2016), Public Policy Research Centre (2015), DU360 (2014).
Area of interest	Monetary Policy, International Economics, Finance and Capital Markets, Speculation and Bubbles in financial assets, Regulatory and Institutional Economics.
Thesis Title	Environmental Governance in India: An inefficient outcome due to lack of "specialized" and strong institution?

Kavitha Srikanth



Academic background	B.Com(H) M.O.P.Vaishnav College, Chennai; PG diploma (Economics), University of London International Programmes
Internship	Lucas TVS (April-June 2013 and April-June 2014); Envecologic (May-July 2017)
Area of interest	Ecological Economics, Indian Agriculture in a Global Setting, Time series, Advanced Econometrics.
Thesis Title	Is it possible for small farmers to benefit out of commodity exchanges?

Meghna Yelluru



Academic background	BA (Economics), St. Xavier's College, Ahmedabad, Gujarat University; Diploma in Journalism, Express Institute of Media Studies
Internship	Nielsen (May-July, 2017), The Indian Express, Mumbai (2014-2015) Financial Express, Mumbai (2015)
Area of interest	Ecological Economics, Time series, Advanced Econometrics, Environmental Valuation, Indian Agriculture in a Global Setting.
Thesis Title	Understanding farmer's capacity to adapt to changes in climate: Too poor to adapt

Nupur Tandon



Academic background	BA Economics (H); Kamala Nehru College, University of Delhi
Internship	Hindustan Petroleum Corporation Limited - A GoI Enterprise (Finance Department: 2017); Centre For Civil Society (Research Internship: 2014-15)
Area of interest	Advanced Econometrics, Time Series Analysis, Indian Agriculture in a Global Setting, Economics of Health and Environment.
Thesis Title	Impact-Analysis of Oil Shocks on the Indian Economy

Poorva Bansal



Academic background	BA Economics (H); Sri Guru Gobind Singh College of Commerce
Internship	Office of Member of Parliament, Mr Dilip Tirkey (May-July 2017)
Area of interest	Time series, ecological economics, indian agriculture in a global setting, economics of health and environment.
Thesis Title	Understanding the Inequality and Development Patterns using Political Ecology as a tool of enquiry.

Prachi Jhamb



Academic background	BA (H) Economics, Dayalbagh University, Agra
Internship	Deft Advisory and Research Pvt Ltd (May-July 2017)
Area of interest	Time series, advanced econometrics, economics of health and environment, Indian Agriculture.
Thesis Title	Economic ecological modelling of Najafgarh drain

Pranav Vikram Mayekar



Academic background	BE (H) Civil Engineering, BITS Pilani
Internship	Clartax
Area of interest	Time Series, Indian Agriculture, Security Analysis and Portfolio Management, Financial Intermediaries.
Thesis Title	Role of tax subsidy in integrating the formal and informal sector in the e-waste collection.

Pratishtha Khanduri



Academic background	BA (H) Economics, JDMC, University of Delhi
Internship	Office of Member of Parliament, Mr Dilip Tirkey (May-July 2017)
Area of interest	Time Series, Indian Agriculture, Economics of Health and Environment.
Thesis Title	Assessing health and social vulnerability to climate change in Urban India

Ritu Ahuja



Academic background	BA (H) Economics, Kirorimal College, University of Delhi
Internship	Nathan Associates (May-June, 2017)
Area of interest	Advanced Econometrics, Time Series Analysis, International Financial Management, Consumer Behaviour, Financial Intermediaries, Institutions and Regulations.
Thesis Title	Environmentally Conscious Consumer Behaviour

Sameeksha Jain



Academic background	Bachelor of Business Studies, (BBS) College/University
Internship	
Area of interest	Advanced Econometrics, Time Series Analysis, Ecological Economics, Economics of Health and Environment.
Thesis Title	Exposure to Air Pollution and Vulnerability: A Quantitative Analysis Organization

Sanya Sharma



Academic background	BA (H) Economics, SGGSCC, Delhi University
Internship	WWF (May-July 2017)
Area of interest	International Financial Management, Time Series Analysis, Ecological Economics, Indian Agriculture, Introduction to sustainable development.
Thesis Title	Is consumption a good proxy for wellbeing?

Sarthak Ashri



Academic background BA (H) Economics, Satyawati College (M), University of Delhi
Internship wildlife institute of India (May-July 2017)
Area of interest Advanced econometrics, time series, ecological economics, health economics.
Thesis Title Green economic valuation of seagrass relative to corals and mangroves

Satarupa Chakravarty



Academic background BA (H) Economics, Daulat Ram College, University of Delhi
Internship Institute of Economic Growth (May-July 2017)
Area of interest Time Series Analysis, Advance Econometrics, Economics of Health and Environment, Indian Agriculture in a Global Setting
Thesis Title Unreliable public water supply and household coping mechanisms.

Shrishti Puri



Academic background BA (H) Economics, Jesus and Mary College, University of Delhi
Internship Envecologic, (May-July 2017).
Area of interest Advanced Econometrics, Time Series, Economics of Health and Environment, Ecological Economics.
Thesis Title Impact assessment of the effectiveness of Green Nudges.

Shweta Agrawal



Academic background BA (H) Economics
Internship American Express (May-July 2017)
Area of interest Advanced Econometrics, finance, consumer behavior, Indian agriculture.
Thesis Title Consumer awarness and responses towards eco-labelled products

Srishti Kuchhal



Academic background	BA (H) Economics, Lakshmbai College, University of Delhi
Internship	Amorphos chemicals (May-July 2017)
Area of interest	Ecological economics, Indian agriculture in lobal setting, Time Series, economics of health and environment.
Thesis Title	Are residents willing to pay for the sustainable construction of green buildings?

Sumedha Shukla



Academic background	BA (H) Economics, ARSD College, University of Delhi
Internship	Center for Policy Research, Department of Science and Technology, IISc Bangalore (May-July 2017)
Area of interest	Advanced Econometrics, Time Series Analysis, Advanced Microeconomics, Health.
Thesis Title	Understanding Variation Pro-Environmental Behaviour Across Occupations

Sunakshi Budhiraja



Academic background	BA (H) Economics, Daulat Ram College, University of Delhi
Internship	Research FICCI (May-July 2017)
Area of interest	Time series Analysis, Advance Econometrics, Economics of Health and environment, Indian Agriculture in a Global setting.
Thesis Title	Water footprint and virtual water trade in textile industry.

Swati Asnani



Academic background	BA (H) Economics, Daulatram College, University of Delhi
Internship	Institute of Economic Growth, University of Delhi
Area of interest	Agriculture Economics, Health Eco, Tie series, Advanced Trix.
Thesis Title	Economic-ecological modelling of Sambhar Lake

Trisanki Saikia



Academic background	BA (H) Economics, Christ University, Bangalore
Internship	Hi-Aware, TERI (May-July 2017)
Area of interest	Advanced Econometrics, Time Series, Microeconomics II, Indian Agriculture in a global setting.
Thesis Title	Disaster Resilient Housing in Uttarakhand

Twinkle Roy



Academic background	BSc (Economics) - Symbiosis International University
Internship	Birla Group of Companies Pvt. Ltd (2017); KPMG (2014)
Area of interest	Econometric Analysis, International Trade, Energy Economics.
Thesis Title	Resilience and Adaption Strategies of Sustainable Livelihood in Gopal Nagar, West Bengal.

Vandana Gupta



Academic background	BA (H) Economics, Shyama Prasad Mukherjee College, University of Delhi
Internship	Ernst & Young (May-July 2017)
Area of interest	Advanced Econometrics, Time Series, Microeconomics II, Indian Agriculture in a global setting.
Thesis Title	Environmental Behaviour and Urban Household Energy Use

RECRUITERS

- Alicon Catstallooy Ltd
- Boston Strategies International
- Centre for Development Economics, University of Delhi
- Centre for Science and Environment
- CHEORS
- CII
- Consumer Unity and Trust Society
- CRU Group
- D School
- Delhi School of Economics
- Development Alternatives
- Faculty of Management Studies, University of Delhi
- Flipkart
- Food Corporation of India
- Forest Research Institute
- Greenpeace India
- Genpact
- Group Concorde
- GroupOn
- IBM
- ICRIER
- IIM Bangalore
- India Development Foundation
- India Infrastructure Publishing Pvt. Ltd.
- Indian Agriculture Research Institute
- Indian Institute of Foreign Trade
- International Labour Organization, New Delhi
- Indian Oil
- Institute of Economic Growth
- Institute of Rural Development, Anand
- Institute of Rural Research and Development
- ISID
- KPMG
- Liberty Institute
- Mentor Together
- Ministry of Commerce and Industry, Government of India
- Ministry of Finance, Government of India
- Ministry of Heavy Industries and Public Enterprise, Government of India
- Ministry of Statistics and Programme Implementation, Government of India
- MSME foundation
- National Commission for protection of Child Rights, Government of India
- National Council of Applied Economic Research
- National Skill Development Council
- NCAER
- NIPFP
- Nutrition Foundation of India
- PATH
- Petronet
- Philips
- Planning Commission of India
- RIS
- RBI

Summer Internships (Previous and Current Batch)

- Institute of Economic Growth, University of Delhi
- Deloitte
- KPMG
- Ernst and Young
- Indiabulls Housing Finance
- Madras School of Economics
- Federation of Indian Chamber of Commerce and Industry
- Tata Motors
- Honeywell
- Centre for Social Science and Humanities
- Centre for WTO Studies
- Center for Advancement of Sustainable Agriculture, New Delhi
- National Institute of Public Finance and Policy
- Axis Bank
- India Infrastructure Publishing
- Delhi School of Economics
- IIM Ahmedabad
- United Nations Economic and Social Commission for Asia and Pacific
- Ministry of Finance
- Indian Council for Research on International Economic Relations
- Punjab National Bank
- Foundation for MSME Cluster
- Ministry for Statistics and Programme Implementation
- Indian Institute of Science, Bangalore



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