

TERI SCHOOL OF ADVANCED STUDIES

PLACEMENT BROCHURE

2023

M.SC. ECONOMICS



Chancellor's Message

Established as an institution of higher learning, TERI School of Advanced Studies aims at creating knowledge and human capacity that enables transition towards a more sustainable world.

The foundation of the institute was laid by the Energy and Resources Institute a not-for-profit, independent research organization globally known for its contribution to scientific and policy research in the realm of energy, environment and sustainable development.

As a leader in sustainability education in India and abroad, TERI School of Advanced Studies (TERI SAS) has been transforming students into sustainability professionals who bring sustainable solutions to the problems that hinder growth in rapidly developing countries like ours.

With the help of an interdisciplinary curriculum taught by a multi-disciplinary faculty, the institute imparts world-class education in domains such as climate change, energy, environment, urban development, policy, water resources, biotechnology, geoinformatics and sustainability management among others.

A series of niche programmes offered by the institute that cater to the demands of the industry and are subjected to constant amendments which enable our students to face and resolve issues with ease.

The feedback from the academic peers, employers and other stakeholders always motivate us to work towards improving our teaching methodology and curriculum.

Whether it's the organizations of global relevance such as the United Nations or the organizations that work to bring change at the grass-root level, our alumni are contributing in every aspect of life across continents to make earth more sustainable for future generations.

Therefore, I welcome you all to hire our students who are competent leaders and will be great assets to organisations.



Dr Shailesh Nayak,
Chancellor, TERI SAS



Vice-Chancellor's Message

Dear Development and Industry Partners,

With an aim to create empowered professionals and thought leaders that better aligns the sustainability considerations in pursuit of economic growth and human welfare, TERI School of Advanced Studies (TERI SAS) is a unique institution of higher learning and cutting edge research.

The academic programmes at the TERI SAS have been designed by keeping in mind the challenges of rising population, already depleting and over-exploited natural resources, and opportunities for sustainable development. Over the years, our alumni engaged in diverse domains of various national and international organizations have been the ambassadors of our vision of creating knowledge for sustainable development in both public and private sectors.

The state-of-the-art research by our faculty members helps us to keep our programme curriculum cutting edge, interdisciplinary and solution-oriented. TERI SAS has been a pioneer in sustainability education and it's the unique combination of our multidisciplinary faculty and interdisciplinary curriculum that separates us from the rest of the institutes.

The curriculum ensures that the students inculcate and imbibe the problem-solving attitude through regular engagement with research projects, industry exposure and field visits.

TERI SAS believes in continuously adapting to the change taking place around the world. The feedback from the academic peers at the domestic and international levels, from employers of our alumni and other stakeholders including our students help us to make key amendments in our curriculum and teaching pedagogy.

The multicultural setting comes naturally to TERI SAS as we have students from the diverse regions across India with international students who continuously exchange ideas and experiences, making the institute truly global.

We are certain that you will find our graduates to be competent leaders who adhere to constructive engagements with analytical skills, well versed with contemporary developments in their domains and have solution-oriented approaches. Our graduates will be assets to organizations acclaiming on sustainability.

I welcome you all for the campus recruitment.

Thanking you and best regards,



Prof. Prateek Sharma
Vice-Chancellor(Acting), TERI SAS

About TERI SAS

TERI SAS (earlier TERI University) was established to disseminate knowledge arising from research and development undertaken 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.

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. TERI SAS is also accredited by National Assessment and Accreditation Council (NAAC) with grade "A".

TERI SAS academic programmes are envisioned to provide students with a holistic perspective of the subjects offered and encourage interdisciplinary learning. The University aspires to be an institution of advanced learning which meets the needs of a rapidly growing nation. The University uses modern pedagogical tools, richly supplemented by comprehensive field trips, live industry projects, and hands-on applications.

Administration

The University'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.

ACADEMICS

Since its inception, the wide array of academic programmes offered by TERI SAS 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, law, water resources, business sustainability and natural sciences for sustainable development.

INFRASTRUCTURE

TERI SAS provides well-equipped laboratories, advanced computer hardware and software, video-conferencing facilities and access to South Asia's most comprehensive library on energy and environment.

Green Campus

Spread over two acres, TERI SAS Green campus comprises of an administrative block, an office block, a convergence and a hostel block. The green campus provides a setting that enhances learning while simultaneously showcasing the concept of modern green buildings including insulation of external walls, terrace insulation, Hunter Douglas louvers, solar water heating system, waste water recycling, rainwater harvesting, solar rooftop system, LED lights and a windmill.

The Academic Council

Chairperson

Prof. Prateek Sharma

Professor & Vice Chancellor (Acting), TERI SAS

Deans

Prof. Ramakrishnan Sitaraman

Professor & Dean(Academic)

Prof. Shaleen Singhal

Professor & Dean(Research & Partnerships)

Prof. Anandita Singh

Professor & Dean(Student's Welfare)

Heads of the Departments

Dr Sudipta Chatterjee

Prof. Vinay Shankar Prasad Sinha

Prof. Naqui Anwer

Dr Sukanya Das

Dr Chaithanya Madhurantakam

Professors

Prof. Arun Kansal

Two Associate Professors from Departments

Dr Chander Kumar Singh

Dr Smriti Das

Two Assistant Professors from the department by rotation of seniority

Dr. Shruti Sharma Rana

Dr Anu Rani Sharma

Nominee by the Vice Chancellor

Prof. Shreekant Gupta

Professor, Delhi School of Economics, University of Delhi

Prof. P.S.N. Rao

Director, School of Planning and Architecture

Prof. Sagnik Dey

Institute Chair Professor, Centre for Atmospheric Sciences, Indian Institute of Technology Delhi

Prof. T C Kandpal

Professor, Centre for Energy Studies, Indian Institute of Technology Delhi

Dr. Vivek Suneja

Faculty of Management Studies, University of Delhi

Prof. Suresh Jain

Professor, IITD

Co-opted Members

Mr. Manoj Chugh

President – Group Public Affairs & Member of the Group Executive Board Mahindra & Mahindra Ltd

Mr. Rahul Mittal

Director, International Tractors Ltd.

Dr Sabhyata Bhatia

Staff Scientist VII, National Institute of Plant Genome Research, New Delhi

Mr. Shubhashis Dey

Director – Climate Policy Program, (Low Carbon Development, Air Quality & Climate Finance), Shakti Foundation

Mr. Niraj Sharma

Chief Scientist, TPE Division, CSIR-Central Road Research Institute

Dr Bidyut Kumar Bhadra

Dy. General Manager, Regional Remote Sensing Centre-North, National Remote Sensing Centre, Indian Space Research Organisation

Dr Madhusudan Sau

Executive Director, R&D Centre, Indian Oil Corporation Limited

Mr. Sudhir Vadehra

Ex-Advisor, Ministry of Power; and Executive Director, REC (Retd)

Controller of Exams

Prof. Shashi Bhushan Tripathi

Secretary

Mr. Kamal Sharma

Registrar (Officiating), TERI SAS

Board of Management

Chairman

Prof. Prateek Sharma
Professor & Vice Chancellor (Acting),
TERI SAS

Deans

Prof. Ramakrishnan Sitaraman
Professor & Dean (Academic), TERI
SAS

Prof. Shaleen Singhal
Professor & Dean (Research &
Partnerships), TERI SAS

Three eminent Academicians nominated by Chancellor

Prof Basabi Bhaumik
Former Professor, IIT Delhi

Dr Sachin Chaturvedi
Director General, Research and
Information System for Developing
Countries (RIS)

Dr Swati Basu
Former Director, National Centre for
Medium Range Weather Forecasting
and Former Scientific Secretary, PSA's
Office, Government of India

Nominee of Sponsoring Society

Dr V.P. Singh
Regional Rep for South Asia,
International Centre for Tropical
Agriculture

Prof. Nitya Nanda
Director, Council for Social
Development

Mr. O P Agarwal
Former IAS and former CEO of WRI

Two teachers (from Prof and Associate Prof)

Prof. Anandita Singh
Professor, TERI SAS

Dr Sukanya Das
Associate Professor, TERI SAS

Secretary

Mr. Kamal Sharma
Registrar (Officiating), TERI SAS

ACADEMICS

Since its inception, the wide array of academic programmes offered by TERI SAS 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, law, water resources, business sustainability and natural sciences for sustainable development.

Department of Natural and Applied Sciences

Quality of life depends on the quality and quantity of natural resources available for use in equitable ways. The world today faces an unprecedented challenge of sustainability. Finding a balance between meeting the needs of human population and maintaining integrity of nature around us is the foremost question of our times. It is imperative to understand how natural processes and systems work around us and how to best use them in pursuit of this balance. The Department of Natural and Applied Sciences (DNAS) at TERI SAS is established to impart training for engaging with the questions of natural resource management in a scientifically rigorous manner. It houses faculty members from a diverse academic disciplines with a focus on applied research for informed decision making.

DNAS offers four distinct interdisciplinary masters programs in Biotechnology, Climate Science and Policy, Environmental Science and Resource Management, and Geoinformatics; and two transdisciplinary Ph.D. Programs in Bioresources and Biotechnology, and Natural Resource Management.

Students pursuing their Master's / Doctoral programme at DNAS are exposed to an academically rigorous and interdisciplinary learning environment with a significant emphasis on laboratory work and engagement with contemporary debates, emphasizing exploration and creative thinking and application as essential ingredients of originality in research and learning.

Department of Policy and Management Studies

The primary challenge of the human being is to improve quality of life across generations, an objective now widely recognized as Sustainable Development. This challenge necessitates numerous interventions concerning each of its components: environmental, social and economic. These interventions range from eradication of hunger and poverty to reduction in inequality; from the provision of quality education, good health, decent work environment, water, sanitation, affordable and clean energy to fostering gender equality; from economic growth to effective institutions; from responsible consumption and production to taking urgent actions to combat climate change.

The Department of Policy and Management Studies (DoPMS) at TERI School of Advanced Studies (TERI SAS) aims to contribute to theoretical and empirical enquiry towards informed prescriptions, implementable policies, sustainable practices and management through research, teaching and training. The continued research in sustainability for the business is also one of the key concerns of the Department.

Faculty of the Department have disciplinary backgrounds in Anthropology, Economics, Population Studies, Sociology, Finance & Accounting, Corporate and Commercial Laws, Public Health, Strategy, Business Sustainability, Circular Economy Finance, Climate Finance, Development Studies and Public Policy. Such disciplinary enables the promotion of multi-disciplinary research and learning at the economy-society-ecology interface. The faculties are engaged in active research in their disciplines as well as within the broad theme of sustainable development. This is reflected in their publications, sponsored projects, consultancies and training programmes and supervised research. The faculty regularly engage with the scientific community through seminars and conferences, participate in different forums as experts or resource persons, and engage with the general public through their lectures, print and digital media.

Department of Sustainable Engineering

Over the past half century, the global community has been debating the mode of economic growth, amid challenges of environmental degradation, energy transition and climate change. India among the several emerging economies, though at crossroads, it has chosen a trajectory of sustainable development for ensuring inter-generational equity and inclusiveness in its growth journey. As India is growing economically amid an increased pace of urbanization, the burden on resource utilization and management has increased Substantially. Two prominent sectors such as energy and urban development facing challenges which are bound to increase due to climate change. Addressing these challenges will require trained professionals who can assess the problems, think critically by integrating multiple sectors and create evidence-based solutions. The focus of Department of Sustainable Engineering (DSE) at the TERI SAS is to develop a cadre of professionals having requisite knowledge and skillsets towards addressing the current and envisaged challenges faced by humanity by promoting scientific, technological and policy innovations for strengthening local, regional, and global development agendas.

DSE offers MTech and doctoral programmes in areas of Renewable Energy Engineering & Management (REEM), and Urban Development Management (UDM). The Department is cognizant of the complex environmental, socio-economic, and political challenges that require an integrative approach towards engineering and sustainability. The DSE encourages collaboration with relevant stakeholders including industry, government, academic & research institutions, and multi-lateral organizations to deliver practice-informed research and teaching.

The curriculum of programmes offered by DSE is an eclectic mix of foundational and advanced courses which promotes both critical and creative thinking. The students at DSE are drawn from diverse branches of engineering, science, architecture, and planning which cultivates robust peer learning. The faculty at the DSE has wide experience and expertise across multiple domains, touching upon the two main themes of the Department – renewable energy and urban development.

Coca-Cola Department of Regional Water Studies

The Coca Cola Department of Regional Studies was created in 2014 with a mission to create a cadre of water professionals who can provide systematic solutions to enhance water security. The water science and governance programme aims to prepare regional water champions who can address water problems in a holistic manner that encompasses both the science of water management and the governance and an enabling policy environment with a healthy blend of theory and practice. The teaching programme focuses on cross cutting issues of water resources through science, engineering, legal, socio-economic and institutional dimensions.

The Department offers two Master's level programmes and Ph.D. programme. The M.Sc. programme in Water Science and Governance is an interdisciplinary program with emphasis on development of social, economic, institutional and governance perspectives. The water professionals graduating from TERI SAS are equipped to examine water issues in a trans-boundary and cross-cultural framework transcending environmental science, social, economic and legal discourses. The M. Tech programme in Water Resources Engineering and Management integrates engineering and technological theories with socio-economic principles. The courses address the technical, social, economic, legal and political dimensions of water. Interdisciplinary in its scope and objectives, the programme prepares students for a rewarding and challenging career in water resources management.



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.

Organisation with which MoU is signed

Freie University, Berlin

The Heller School for Social Policy and Management,
Brandeis University

Himalayan University Consortium Charter University of
Iceland

Sambhram Institute of Technology, Bangalore & TERI,
Bangalore

The University of the West Indies, Kingston, Jamaica

Environment Protection Training and Research Institute,
Telangana, India

Karl-Franzens-University, Graz; Ca'Foscari University,
Venice; Leipzig University, Germany; Utrecht University,
Netherlands; Basel University, Switzerland; Hiroshima
University, Japan; Stellenbosch University, South Africa

Gurugram Metropolitan Development Authority, Haryana

Institute for Future Cities, University of Strathclyde,
Glasgow, United Kingdom

Kwame Nkrumah University of Science and Technology,
Kumasi, Ghana

Future Himalaya Institute (FHI), Kathmandu, Nepal

Faculty of Graduate Studies, University of Sri
Jayewardenapura, Sri Lanka

National Institute of Disaster Management (NIDM), India

Purbanchal University, Nepal

The University of Victoria, B.C., Canada
Deakin University, Australia

SM Sehgal Foundation, Gurugram

CPWD, New Delhi

University of Science, Engineering and Technology,
Gambia

Lomonosov Moscow State University

Linnaeus University, Sweden

Mahindra & Mahindra Ltd.

Humboldt University, Berlin

EKI-Energy Services Limited

Canvest Infracapital Inc., Canada

DHAN Academy, Tamil Nadu

Centre for Public Policy Research, Kerala

Emerson Electric Co (I) Pvt. Ltd, Pune, Maharashtra

National Bureau of Plant Genetic Resources

University of Rhode Island, USA



INFRASTRUCTURE

TERI SAS provides the best equipment and instruments, which includes a 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.

Green Campus

Spread over two acres, TERI SAS Green campus comprises of an administrative block, an academic block, a convergence and a hostel block. The green campus provides a landscape that enhances learning while simultaneously showcasing the concept of modern green buildings including insulation of external walls, terrace insulation, Hunter Douglas louvers, solar water heating system, waste water recycling, rainwater harvesting, solar rooftop system, LED lights and Wind turbines.

Laboratories

TERI SAS laboratories are equipped with advanced equipment and facilities to aid and stimulate research.

The different laboratories at TERI SAS are:

Environmental Monitoring Laboratory

The laboratory has been created with the objective of providing a facility with all the basic equipment required for the analysis of environmental samples (soil, waste, water, and air). It caters to the interdisciplinary application of research to all the master's students (science-based) of the Deemed university. This laboratory facility is common for M.Sc./M.Tech. (ESRM, CSP and WSG) programs

Combustion Lab

The combustion lab was established in 2009 with the initial funding received from DST project and MNRE projects. It is a small lab however equipped with instruments used for emission and thermal efficiency testing. Primarily, we conduct experiments based on internationally accepted protocols viz, water boiling test (WBT) and kitchen performance test (KPT) in the above-mentioned lab. The hood methodology is used to capture and quantify the various products of incomplete combustion.

Environment Lab

The laboratory supports master's level experiments pertinent to the laid curriculum. The lab is equipped with instruments required for environmental analysis (soil, water, and air). The laboratory is capable to perform analysis on drinking water, wastewater, surface and groundwater, soil, and sediments, including air quality monitoring, and basic microbial analysis. Laboratory also supports various training programs offered by the university in the associated fields. This laboratory facility is common for M.Sc. (ES, WSG, and CSP) programs.

Centre of Excellence in Thermal Energy Storage

The laboratory is equipped for research on new thermal storage system development for sub-ambient, low, and medium temperature applications and characterizing storage material properties for optimal system design.



Heat transfer laboratory

The laboratory provides hands-on training to students to understand various heat transfer modes, devices and to quantify their characteristics parameters or properties.



Power Systems laboratory

The lab provides fundamental experimental knowledge on different equipments used in electrical power system at various loading conditions and to measure their characteristics.

Hybrid Micro Grid (HMG) laboratory

The lab houses solar PV system, wind turbine, battery energy storage and connected together to develop a hybrid micro grid. The research facility is used for carrying out power flow experiments.

Energy Simulation Laboratory

The lab is equipped with the state of the art software used in Renewable Energy industry. The lab provides in-depth understanding on design, simulation, financial analysis and optimization of various renewable energy technologies for plant/system design and other applications.

Biofuel and Waste Utilization Laboratory

The lab is used to conduct research experiments on the combustion process, fuel properties, biomass conversion, and pyrolysis.

Solar Energy Laboratory

The lab is equipped with outdoor and indoor experimental facilities to conduct experiments on the characterization of solar photovoltaics modules, radiation measurement, and performance analysis of various solar thermal devices/systems.



Geoinformatics Laboratory

The TERI SAS geoinformatics laboratory is well equipped with state-of-the-art equipment such as state-of-the-art computers (workstations), a scanner, printer, plotter, navigation devices, infrared thermometers, etc. It has license for high -end commercial software's like ERDAS Imagine, LPS, ArcGIS, MIKE, 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 fitted with various open-source** geospatial softwares to expose our students to the powerful open-source environment.

The laboratory holds a good repository of geospatial information in both digital and hard formats. The Geoinformatics laboratory of the Department of Natural and Applied Sciences of TERI SAS has a solid network with several research establishments and Universities working in Geoinformatics and other associated fields both within and outside the country. We also support R&D activities of various centres of The Energy Resources Institute (TERI) branches located across the country.



Analytical and Geochemistry Laboratory



The analytical and geochemistry lab caters the needs for research in understanding the earth sciences problems and providing solutions to these problems. The researchers in the laboratory are currently engaged in understanding the natural occurrence of Arsenic, Fluoride and Uranium in groundwater. The lab also has developed prototype nano-materials to remove such geogenic contaminants from groundwater to provide safe drinking water. The lab has established linkages to Lamont Doherty Earth Observatory, Columbia University; Dept. of Engineering,

Massachusetts Institute of Technology, Stanford University. The lab also has developed linkages with institutions in India such as IIT Kharagpur, IIT Guwahati, Jawaharlal Nehru University, SPCB Bihar, Drinking Water Supply and Sanitation, Punjab, Board of Research in Nuclear Sciences etc. The laboratory houses several water field testing kits, flame photometer, double beam spectrophotometer, LED-Fluorimeter, Radiation Survey Meter, Air-dry Oven, Sonicator, pH meter, Muffle furnace, Ion selective Electrodes, Conductivity meter etc.

Biotechnology Laboratory

The Biotechnology Laboratories at TERI SAS are equipped for teaching and research in Biotechnology. The laboratories harbor both basic as well as sophisticated equipment used the modern biotechnology research. In addition to these, the Bioinformatics laboratory is equipped with a high capacity server, workstations and dedicated computers with advanced software such as MATLAB, GCK, PAUP and MacVector. There are two laboratories for M.Sc. teaching and two research laboratories. Furthermore, the students also have access to TERI's research laboratories at Gwal Pahari.



Some of the major equipment installed in the laboratories are listed below:

- | | | |
|--------------------------|-----------------------------|--|
| ●Real time PCR | ●Centrifuges | ●Spectrophotometer |
| ●Zeta Potential Analyzer | ●Incubator Shakers | ●SE 600 Ruby complete, 2D, Vertical Gel unit |
| ●Refrigerators | ●Thermal cyclers | ●2D Gel Electro power supply, EPS 601, GE |
| ●Microscopes | ●EVOX-XL Microscope | ●Gel Doc system XR |
| ●Laminar Flows | ●Nanodrop Spectrophotometer | ●Ice Franking Machine |
| ●Power Pack/Power supply | ●Gene Pulser X Cell | ●Growth Chamber GC - 100 |
| ●BOD Incubator | ●HB-1000 Hybridization Oven | ●Electronic Balances |
| ●Deep freezers -20°C | ●Stereo Zoom Microscope | ●Deep Freezer -80°C |
| | | ●Solar PV Simulator |

Library

One of the key infrastructures of TERI SAS is its well developed and centrally organised library. The library has a number of electronic services and an ever-wider range of resources in order to support teaching, learning and research. The Library also engages in partnership initiatives with academic colleagues and national and international universities. The services are offered electronically through a web-enabled integrated digital information system.



M.SC. ECONOMICS

Program Outline

M.Sc. Economics with a specialization in Environment and Resource economics is a unique graduate level programme, providing in-depth knowledge of the concepts, theories, techniques, policies and other applications in ecological, environmental, and natural resource economics. The programme intends to recognize, understand, analyse, and evaluate interactions between nature and society towards their implication on human well-being. In this endeavour, it aims to design and implement effective policy instruments that assist in sustaining the quality of life on earth and its enhancement over a longer time horizon. The programme offers rigorous grounding in standard economic theory and techniques and exposure to wide varieties of economic challenges due to ecological/environmental/natural resource constraints. The syllabus of the programme is frequently revised by bringing in updated curriculum and introducing hands-on- practical sessions with software packages like STATA and R. The syllabus includes case studies and examples from the domain of policymaking. Quality of the curriculum is regularly evaluated by its stakeholders, peers, alumni and employers. Faculty members, associated with the programme, are involved in active research with funded projects from the SANDEE, DST, and several other funding agencies and regularly publish in the leading journals of economics. This programme has been offered at the TERI SAS since 2009. The quality of students, their performance, placement activities and the expertise of the faculty members make it one of the flagship programmes offered at the Department of Policy and Management Studies and the Institution.

Program USP- Master's Thesis:

The Master's Thesis is a mandatory component of the MSc Economics programme. It has the highest credit load of 20 out of 72 and spreads across the entire 4th semester. It requires the student to conduct meaningful and grounded research in economics with a focus on ecological, environmental and resource economics, the specialization of the MSc Economics program. The first three semesters of MSc Economics program are designed in a way to provide skills and sound knowledge in basic economic theory and its practices. The foundations of the thesis are laid down in the core course titled "Methods of Research in Economics" (MPE 176; third semester). It takes the students through the entire spectrum of research design, that begins with theories, concepts, frameworks and models and ends with a Research Proposal for a Masters' Thesis. Ordinarily, the student will write a Master's Thesis based on this Research Proposal, under the supervision of faculty/external experts, as decided by MPEC of MSc Economics programme.

The Master's Thesis provides a hands-on opportunity to the students to apply economic concepts, theories, and methods towards analysis, appraisals, and evaluation of a wide range of environmental problems and policies so as to demonstrate their ability as research professionals. All students are supervised by one or more faculty members and every thesis is reviewed extensively by a panel of experts to ensure quality, originality and rigour. The quality of the dissertations has been appreciated in various forums including national and international conferences. Some of these dissertations have also resulted in publications in peer-reviewed journals.

Program Structure

Year	Courses	Credits	Duration*
First Year			
1st Semester	4 core courses of 4 credits	16	15 weeks
2nd Semester	4 core courses of 4 credits	16	15 weeks
Second Year			
3rd Semester	3 core courses of 4 credits + Electives courses of 8 credits	20	15 weeks
4th Semester	Master's Thesis	20	15 weeks

Semester 1

Course No.	Course Title	Type	Number of Credits
MPE 121	Macroeconomics	Core	4
MPE 113	Mathematical methods for economics	Core	4
MPE 131	Microeconomics	Core	4
MPE 115	Probability and statistics	Core	4

Semester 2

Course No.	Course Title	Type	Number of Credits
MPE 184	Development economics	Core	4
MPE 172	Econometrics	Core	4
MPE 185	Environment and economic development	Core	4
MPE 182	Growth economics	Core	4

Semester 3

Course No.	Course Title	Type	Number of Credits
MPE 124	Advanced Econometrics	Elective	4
MPE 154	Economics of health and environment	Elective	4
MPE 152	Environmental economics	Core	4
MPE 122	Indian agricultural development: Contemporary Issues	Elective	4
MPE 176	Methods of research in economics	Core	4
MPE 153	Natural resource economics	Core	4
MPE 178	Time series and regression analysis	Elective	4
MPE 193	Trade, Development and Environment	Elective	4

Semester 4

Course No.	Course Title	Type	Number of Credits
MPE 108	Master's thesis	Core	20

Faculty Profile

Dr Sukanya Das is an environmental economist with an interest in environmental valuation and policy. Prior to joining TERI SAS, she was a Faculty at Madras School of Economics for more than seven years after completing her PhD from Jadavpur University. She has an expertise in handling research projects in the area of environmental and resource economics, water economics and health economics.

She teaches courses in Environmental and Resource Economics, Environmental Valuation, Economics of Health and Environment. Her current research interests include environmental valuation particularly in the area of water and wastewater management, ecosystem services, agricultural, Water economics, Urbanization and environment.

Her research interests lie in Environmental Valuation, Water Resource Economics and Quantification of Health Impacts.



DR. SUKANYA DAS

Associate Professor and Head,
Department of Policy and Management
Studies



DR. KAVITA SARDANA

Associate Professor, Department of
Policy and Management Studies

Dr Kavita Sardana received her Ph.D. in Agricultural and Applied Economics with specialization in modeling choice-based samples from University of Georgia, US in 2010. She is a recipient of the SANDEE research grant (2014-16) to design a unique financial mechanism to compensate coffee-growers for conservation efforts on their plantations in the Kodagu district of Karnataka. She served as a member of the expert panel for environmental damage assessment, CPCB (2019-201). She has also taught at the department of Economics at Iowa State University.

Her research interests are non-market valuation of environmental goods and services and applied econometrics. Her articles have appeared in journals, including the Economic Bulletin, Journal of Agr. and applied economics, Journal of Environmental and Management, Journal of Public Economic Theory, and Crop Science.

Dr. Seema Sangita teaches Probability & Statistics, Development Economics and Trade, Development & Environment at the M.Sc. Economics programme at TERI SAS. She has a PhD in Economics from University of California at Davis. Prior to joining TERI SAS, she has worked at Humboldt State University, Global Development Network, Institute of Economic Growth and National Council of Applied Economics Research. She has published academic articles on various topics in journals such as Review of International Economics and Margin – The Journal of Applied Economic Research.



DR. SEEMA SANGITA

Assistant Professor, Department of
Policy and Management Studies



DR SHANTANU DE ROY

Assistant Professor, Department
of Policy and Management
Studies

Dr. Shantanu De Roy is an economist who specializes in Agrarian Studies, Labour Studies and issues related to Indian Economy and Development Economics. He has almost 10 years' work experience in teaching and research. Prior to joining the TERI School of Advanced Studies, Dr. De Roy was with a research institution, Foundation for Agrarian Studies and then joined the Ambedkar University Delhi (AUD) followed by St. Stephens' College, University of Delhi. He has taught at the Under-Graduate and Post-Graduate programmes in Economics. He has offered courses that include among others Macroeconomics, Growth Economics, Indian Agricultural Development: Contemporary Issues and International Economics.

Dr. Montu Bose is a trained Economist with a PhD from University of Calcutta. His expertise includes Health Economics, Applied Econometrics & Development Economics. He has more than six years of teaching and eight years of research experience. Before joining TERI School of Advanced Studies, he has also served at University of Calcutta, University of Delhi, Jadavpur University and Public Health Foundation of India (PHFI). He teaches Microeconomics, Health Finance, Statistics & Econometrics courses.



DR MONTU BOSE

Assistant Professor, Department of
Policy and Management Studies



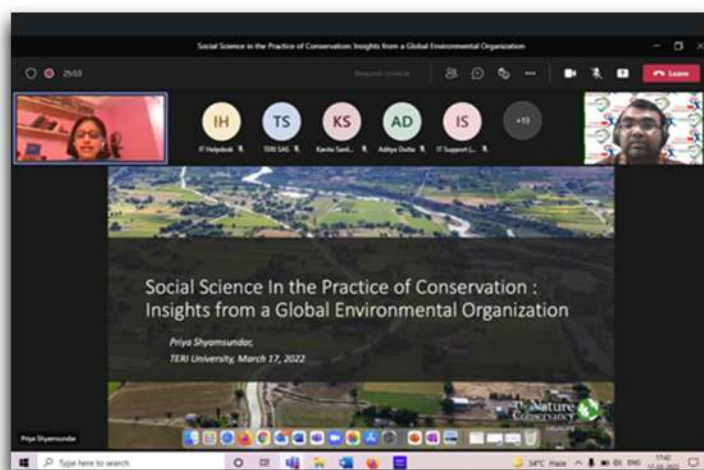
DR L. N. VENKATARAMAN

Assistant Professor, Department
of Policy and Management
Studies

Dr L. N. Venkataraman is an Assistant Professor at TERI School of Advanced Studies in New Delhi and the author of The Social Construction of Capabilities in a Tamil Village. Before joining TERI SAS, he worked as an Affiliated Lecturer at the Faculty of Education at Universität Bielefeld, Germany, and at the Centre for Development Support at the University of the Free State, South Africa. As a university professional, he has been closely associated with various scholars and public intellectuals in India and abroad; and actively sharing perspectives and delivering lectures. In addition, he was a Research Professor (Visiting) at the Faculty of Economics, Universidad Popular Autónoma del Estado de Puebla (UPAEP), Puebla, MEXICO, a Research Fellow of the Centre for Research on Higher Education and Development (CRHED) in South Africa and the Research School on Education and Capabilities (EduCap) in Germany. His expertise lies in Education and Development, Governance issues and Political-Economy & Welfare State.

Economic Seminar

Name of the Guest	Topic	Date
Ms. Vasudha Chopra, PhD Candidate at the University of Tennessee at Knoxville and TERI	Are we doing more harm than good? Hypothetical bias reduction techniques in potentially consequential survey settings	07-Oct-21
Dr. Priya Shyamsundar, Lead Economist, The Nature Conservancy	Social Science in the practice of Conservation: Insights from a Global Environmental Organizations	17-Mar-22
Anuja Malhotra & Sanchit Sethi, (Alumni)	self-reflections on the journey so far	04-May-22
Prof David Simpson, (American University, Washington DC)	The Economics of Biodiversity and Ecosystem Services	16th- 18th Aug 22
Dr Vishal Narain	Primary data collection during fieldwork	25-Nov-22
Prof Vikas Rawal, CESP JNU	Data Analysis using Secondary Data	28-Nov-22



Vasudha Chopra, a doctoral candidate at University of Tennessee at Knoxville and an alumna from the M.Sc. economics program presented a paper on bias reduction procedures in surveys in the Economics Seminar Series at TERI SAS.

Students' Profile

Key Computer skills:

R
STATA
MS Excel
Power BI
Python
SQL

Soft Skills:

Communication skills
Analytical skills
Research skills
Presentation skills

Areas of Internship:

Academic institutions & Think Tanks
Corporates
Financial Institutions like banks
Government Organizations
Research and Development Sector
Data & Analytics
ESG
Public Policy

Students' Profiles



Aastha Dutt

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Kirori Mal College, University of Delhi

Internship Organizations: KPMG

Key Skills: R, STATA



Aditya Singhai

Under graduation Course: B.A. (Hons.) Economics, Minor in Mathematics

Under graduation College: Deshbandhu College, University of Delhi

Internship Organizations: ICRIER

Key Skills: STATA, R, Python, Excel



Amulya Varma

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Bhopal School of Social Sciences, Barkatullah University

Internship Organizations: The Energy and Resources Institute (TERI)

Key Skills: R and STATA



Ankit Kumar

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: MIT WPU

Internship Organizations: Institute of Economic Growth (IEG)

Key Skills: STATA, R, Excel



Arpit Beniwal

Under graduation Course: B.Com. (Hons.)

Under graduation College: Amity College of Commerce and Finance, Amity University, Uttar Pradesh

Internship Organizations: Public Policy - PRS Legislative Research; Indian School of Business (ISB)

Key Skills: STATA, R, Python, MS Office, Literature Survey



Dipali Gupta

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Miranda House, University of Delhi

Internship Organizations: ESG Book

Key Skills: STATA, R



Divisha Garg

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Hansraj College, University of Delhi

Internship Organizations: Velocity, Hindustan Coca-Cola Beverages Pvt. Ltd.

Key Skills: STATA, R, Microsoft Power BI, MS-Office Suite



Gayatri Capoor

Under graduation Course: B.A. (Hons) Economics with minor in Commerce

Under graduation College: Jesus and Mary College, University of Delhi

Internship Organizations: The Energy and Resources Institute (TERI)

Key Skills: STATA, R



Ishita Tayal

Under graduation Course: B.A. (Hons) Economics

Under graduation College: Lakshmibai College, University of Delhi

Internship Organizations:

Key Skills: STATA, R, MS Excel



Khushboo Madaan

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Sri Guru Gobind Singh College of Commerce, University of Delhi

Internship Organizations: World Resources Institute, Competition Commission of India, Consumers India, Ken Research

Key Skills: STATA, Excel



Khushi Rani

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: ST.Xavier's College, Ranchi, Ranchi University

Internship Organizations: Council on Energy Environment and Water; National Human Rights Commission, India; Institute of Economic Growth

Key Skills: STATA, R, Introductory Python, MS Office



Kriti Sharma

Under graduation Course: BA in Economics (psychology minor)

Under graduation College: St.Xavier's College Ahmedabad, Gujarat University

Internship Organizations: World Resources Institute (WRI), India

Key Skills: STATA, SPSS, R



Krittika Dirghangi

Under graduation Course: B.Sc. Economics, (Minor- Statistics, Mathematics)

Under graduation College: Presidency University, Kolkata

Internship Organizations: IIM Calcutta, Institute of Economic Growth

Key Skills: STATA, R, SPSS



Maanya Garg

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Jesus and Mary college, University of Delhi

Internship Organizations: Economics and statistical analysis, Haryana; Niti aayog; IDFC first bank

Key Skills: R, STATA



Manvi Gupta

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Indraprastha College for Women, University of Delhi

Internship Organizations: Gender discomfort gap project under Yale and Stanford university; Center for New Economics studies

Key Skills: Excel, STATA, R



Mehak

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Lakshmibai College, University of Delhi

Key Skills: STATA, R, MS Word, MS PowerPoint



Muskan Ailawadi

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Jesus and Mary College, University of Delhi

Internship Organizations: CEEW

Key Skills: R, STATA



Muskan Mittal

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Shivaji College, University of Delhi

Internship Organizations: Indian School of Business; Inceptive Wave Private Limited

Key Skills: R, STATA



Nikita Malik

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Daulat Ram College, University of Delhi

Internship Organizations: InterGlobe Aviation Ltd. (Indigo); Source Dock Pvt. Ltd.; PAGC Foundation

Key Skills: Python, SQL, R programming, Microsoft Office, Microsoft Power Bi and Machine Learning



Nishtha Munjal

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Lakshmibai College, University of Delhi

Internship Organizations: Bharti Institute of Public Policy- Indian school of business (ISB); Gender discomfort gap project under Yale and Stanford university.

Key Skills: STATA, MS Excel, R, Python



Radha Arora

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Delhi College of Arts and Commerce, University of Delhi

Internship Organizations: Evelyn Learning Systems Pvt. Ltd. and Spire Research and Consulting

Key Skills: Python, R, STATA



Raunak Jha

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: St Xavier's University Kolkata

Internship Organizations: Growth Central VC and CONNECT Health economics outcomes research (CONNECTHEOR)

Key Skills: R, STATA



Ria Pal

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Hansraj College, University of Delhi

Internship Organizations: The Energy and Resources Institute (TERI), Nikore Associates (Economics and Policy Think Tank)

Key Skills: R, STATA



Riddhi Mehan

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: College of Vocational Studies, University of Delhi

Internship Organizations: Mahindra Group, Environmental Defense Fund (Climate Corps Fellow'22), Sirona Hygiene, Diggiplus, MarketClear, Bizzventure, Community101, InternVillage

Key Skills: STATA, R, SQL



Riddhi Mukherjee

Under graduation Course: BSc Economics with Mathematics and Statistics

Under graduation College: Bethune College, University of Calcutta

Internship Organizations: Climate Policy Initiative, India; Institute of Economic Growth

Key Skills: STATA, R, MS Excel



Ridhima Joshi

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Daulat Ram College, University of Delhi

Internship Organizations: NITI Aayog, CERC and Counsel India

Key Skills: STATA, R, Data Analysis



Rishabh Jain

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Deshbandhu College, University of Delhi

Internship Organizations:

Key Skills: R, STATA



Roopam Singh

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: University School of Management and Entrepreneurship, DTU

Internship Organizations: Directorate General of Foreign Trade (DGFT- Ministry of Commerce and Industry, Government of India), CMC Services India Pvt. Ltd.

Key Skills: STATA, R, Advanced Excel, Python (Beginner)



Sakshi Bansal

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Daulat Ram College, University of Delhi

Internship Organizations: Bharti Institute of Public Policy- Indian School of Business, National Human Rights Commission, College Dunia Web Private Limited

Key Skills: STATA, Excel, R, Python, Power BI



Sheen Bhayana

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Shivaji College, University of Delhi

Internship Organizations:

Key Skills: SQL, R, STATA, MS Excel, Tableau



Shreeya Shah

Under graduation Course: BSc Economics

Under graduation College: MIT School of Government Pune

Internship Organizations: : ISB Hyderabad, IIM Indore, Fior Markets, The Sparks Foundation, Arihant Capital Markets

Key Skills: R, STATA, Excel, Tableau



Shreya Annie Mathew

Under graduation Course: BSc Economics, Mathematics and Statistics

Under graduation College: CHRIST (Deemed to be University), Bangalore

Internship Organizations: National Mission for Clean Ganga, TERI School of Advanced Studies, Ashoka

Key Skills: R, STATA, Python, LaTeX



Shreya Gupta

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Gargi College, University of Delhi

Internship Organizations: Bharti Institute of Public Policy (ISB)

Key Skills: STATA, Fundamentals of SPSS, R, Python, Tableau



Shubhangi Chadha

Under graduation Course: B.A. (Hons.) Economics (minor in psychology)

Under graduation College: Aryabhatta College, University of Delhi

Internship Organizations: TERI School of Advanced Studies, Fintrade Technologies Pvt Ltd

Key Skills: STATA, SQL, MS Excel, Microsoft Office, R programming, Data Analysis, Statistical Analysis, Data Visualization



Simran Sukhija

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Janki Devi Memorial College, University of Delhi

Internship Organizations: Bharti Institute of Public Policy, IORA Ecological Solutions Pvt. Ltd., Biodiversity Collaborative at Ashoka Trust for Research in Ecology and Environment (ATREE), Evepaper, Stracon Business Services

Key Skills: MS Office, R Programming, STATA, Python, Power BI



Soham Roy

Under graduation Course: BTech. Electrical Engineering

Under graduation College: Jadavpur University

Internship Organizations: Institute of Economic Growth; ONGC, Unilever

Key Skills: C#, Python, SQL



Vandana Shankar Vidhani

Under graduation Course: B.A. (Economics)

Under graduation College: Fergusson College, Pune

Internship Organizations: Agnomics Analytics Lab Pvt Ltd

Post Graduate Course & College: M.B.A (Major: Marketing, Minor: International Business) ; Doon Business School, Dehradun

Internship Organizations: Saraf Group of Companies, Institute of Economic Growth, Indian School of Business, TERI School of Advanced Studies

Key Skills: STATA, R



Vanshika Jain

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Sri Guru Gobind Singh College of Commerce, University of Delhi

Internship Organizations: Bharti Institute of Public Policy- Indian School of business, ESG Book, TheWiseMoney

Key Skills: MS Office, R, STATA, Power BI



Vrinda Arora

Under graduation Course: B.A. (Hons.) Economics

Under graduation College: Dayal Singh College, University of Delhi

Internship Organizations: Municipal Councilor, Biodiversity Collaborative

Key Skills: STATA, R, MS Excel, MS PowerPoint and MS Word

Key Recruiters

Alicon Catstallooy Ltd
Boston Strategies International
Cactus Communication
Centre for Development Economics,
University of Delhi
Centre for Science and Environment
Centre for Regional Trade
CEEW
CHEORS
CII
Consumer Unity and Trust Society
CRU Group
Delhi School of Economics
Development Alternatives
Development Solutions
Faculty of Management Studies,
University of Delhi
Flipkart
Food Corporation of India
Forest Research Institute
Galytix
Grail Insights
Greenpeace India
Genpact
Group Concorde
Group On
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
IMRB
ISID
KPMG
Liberty Institute
Mentor Together
Microenergy Credits
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
Nielson India
NIPFP
Nutrition Foundation of India
PATH
Petronet
Philips
Planning Commission of India
RIS
RBI
TATA TRUST
Schneider Electric
SG Analytics
TERI
Tridge
Xceedance

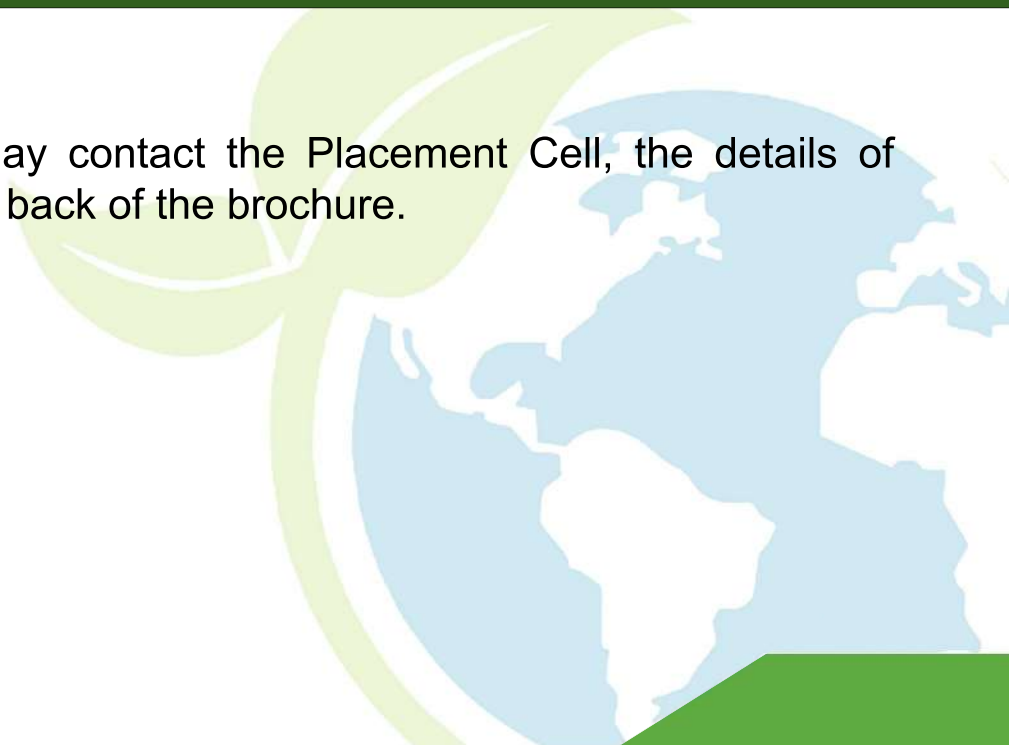
Placement Procedure

We welcome organizations to visit our campus for interviewing and selecting the students for placements. The recruiters may interact with our students through telephone, video conferencing, or in person.

Job Placement | Recruitment Period | November 2022 – June 2023

Availability of Students | May 2023 onwards

Interested organizations may contact the Placement Cell, the details of which are mentioned at the back of the brochure.



Placement Cell

Student Placement Coordinators:

Nishtha Munjal
nishtha.munjal@terisas.ac.in

Sheen Bhayana
sheen.bhayana@terisas.ac.in

Vanshika Jain
vanshika.jain@terisas.ac.in

Faculty Placement Coordinator:

Dr. Sanyyam Khurana
sanyyam.khurana@terisas.ac.in

For Further Information, Contact:

Ms Sonika Goyal
Placement Manager, TERI School of
Advanced Studies
10, Institutional Area, Vasant Kunj New
Delhi-110070, India
Email: sonika.goyal@terisas.ac.in
Website: www.terisas.ac.in
Phone: +91 11 718800222