



TERI School of Advanced Studies

Address: Plot No. 10, Institutional Area, Vasant Kunj, New Delhi - 110 070, India.

Department of Business & Sustainability

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1. About TERI School of Advanced Studies

The TERI School of Advanced Studies 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 University'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 University 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 University 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 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. 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 17 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)
- LLM (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 University 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.

Collaborations

Stressing the importance of the international perspective in its programmes, TERI University 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 University 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 University 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).

INFRASTRUCTURE

Green Campus

TERI University 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 University 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 University. 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 University Laboratories

TERI University 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 University 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.

Environmental Monitoring Laboratory

The Environmental Monitoring laboratory (EML) provides 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 equipped with UV-Visible Spectrophotometer, GRIMM Aerosol Spectrometer, Respirable Dust Sampler, High Volume Sampler, Stack Monitoring Kit, pH Meter, Muffle Furnace, Oven, Ion Selective Electrode, Turbidity Meter, Conductivity Meter, Jar Test Assembly, COD Digester (Reflux), BOD Incubator, Sensitive Balance, Bomb Calorimeter, Kjeldahl Unit, Microscope With Camera (Primostar Halogen), Optical Partical Sizer (TSI), Potable Gas 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).

Geoinformatics Laboratory

The Geoinformatics laboratory is 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 versions of high-end latest commercial software like ERDAS Imagine, LPS, ArcGIS, TerrSet, GMS, and WEAP along with other advanced support system's mechanism.

Biotechnology Laboratories

The Biotechnology Laboratories are equipped for teaching and research in plant biotechnology. These laboratories harbour equipment such as autoclave, oven, water baths centrifuges, conductivity meter, pH Meter and ice flaking machine. They house molecular biology related equipment such as gel electrophoresis systems for nucleic acids and proteins, gel documentation system, Nano-Drop for DNA quantification, thermal cyclers, real-time PCR, refrigerators, deep freezers (-20 and -80 °C) and laminar air flow. Other equipment such as microscopes, gas chromatograph, plant growth room and plant culture room are also available. The Bioinformatics laboratory is equipped with a high capacity server, work stations and dedicated computers with advanced software such as MATLAB, GCK, PAUP and MacVector. Furthermore, the students also have access to TERI's research laboratories at Gual Pahari.

Power System Laboratory

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.

Heat Transfer laboratory

The Heat Transfer laboratory provides a platform to study various mechanisms of heat transfer such as conductive, convective and radiative heat transfer. The experiments are designed to give students the ability to do steady-state measurement and analysis of heat transfer mechanisms along with characterization of heat exchanger.

Energy Simulation Lab

Energy Simulation Lab enhances the soft computing skills of the students and enables them for modelling and simulation of energy systems. 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 Laboratories:

The Biofuel and Waste Utilization Laboratories are distributed between the TERI University 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 University, while experimental studies on biomass conversion processes such as gasification, biomethanation, and pyrolysis are carried out on facilities at TERI Gram.

The Solar Energy Laboratory has outdoor and indoor facilities for conducting experiments on characterization of solar photovoltaics modules and performance analysis of various solar thermal devices.

Centre for Excellence in Thermal Energy Storage works on finding innovative solutions in the areas of solar energy based decentralized cold storages and air cooling application, thermal storage for solar crop drying, development of thermal storage for waste heat utilization and solar thermal power generation

TERI SAS LIBRARY

The TERI University library supports the university's academic and research programmes by meeting the information requirements of students, researchers, and faculty members.

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.

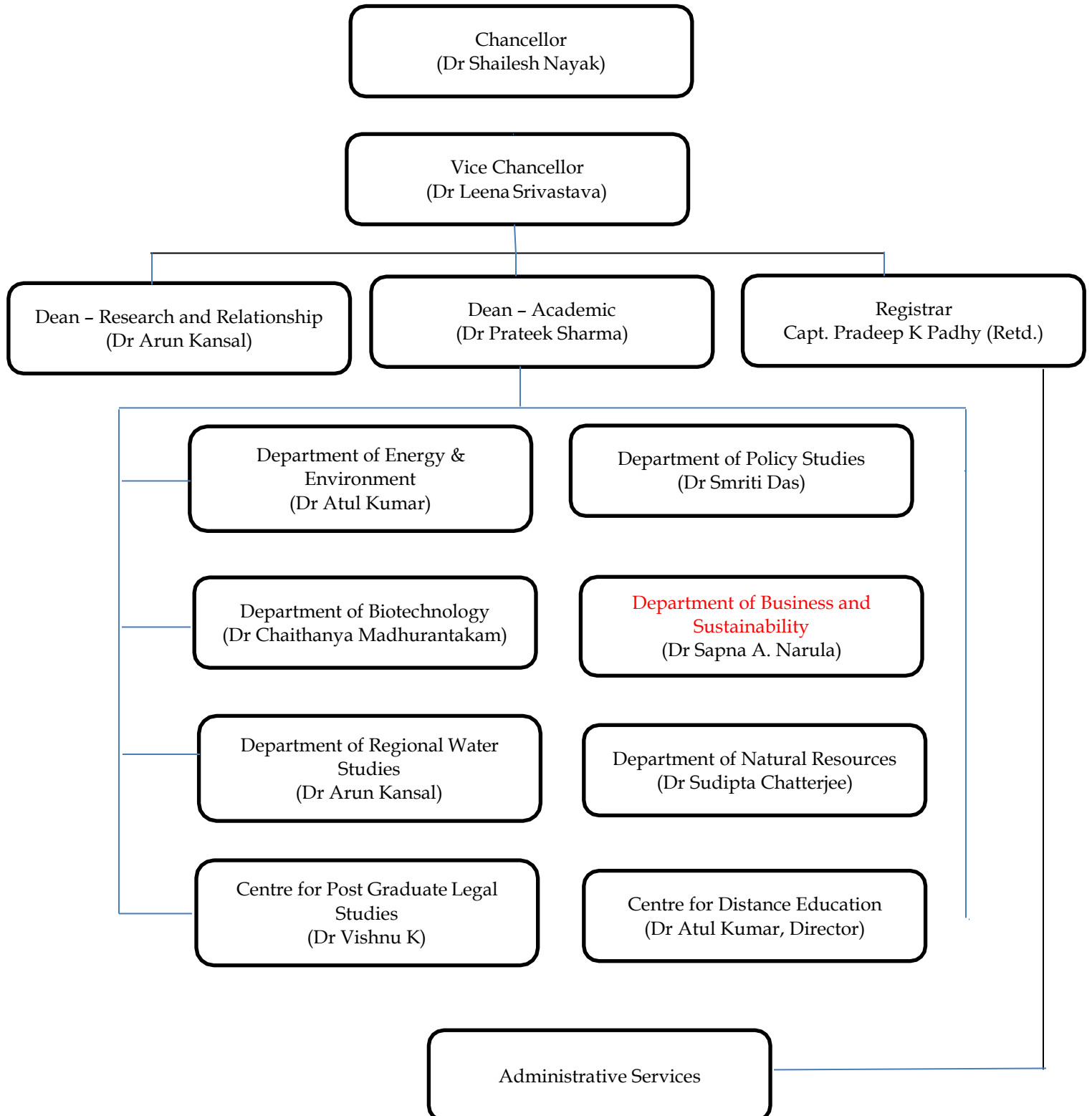
2. Department of Business and Sustainability

About the Department

The Department of Business & Sustainability is committed to the cause of continued research in sustainability for business. The department, naturally, is interdisciplinary in its approach. Its mission is to provide experience and research-based education that would equip the students to implement an integrated approach to business sustainability, so that the world we share thrives with a greener agenda. The department offers two masters programmes, MBA in Business Sustainability and MBA in Infrastructure. It also offers PhD programmes, both full-time and part-time, with the goal of capacity building in the area for the academic world and the industry. The department's areas of research include: economics of climate change, responsible investments, sustainability reporting, environmental accounting, green project financing and management, sustainable finance, carbon trading, accounting for sustainability, weather derivatives, infrastructure financing, business innovation, business strategy, international financial reporting standards (IFRS) and sustainability, green indices, environmental-social-governance issues and business, valuation of intangibles, eco-entrepreneurship and the like.

- **Vision:** To successfully integrate the values of sustainability in business practices and build a just, clean and green society.
- **Mission:** To create a pool of human resources through evidence and research-based learning who are well trained to adopt an integrated approach to sustainability in management practices

3. Structure & Organization



Dr. Sapna A. Narula

Teaching Interests: sustainable business strategy, sustainability Reporting, CSR and Business, Natural Ecosystems and Community

Research Interests: Business Sustainability, Corporate Social Responsibility, Sustainability Reporting and standards

Faculty: Dr. Ritika Mahajan

Teaching Interests: Quality Management, Organizational Behaviour, Fundamentals of Management

Research Interests: The areas of management education for sustainable development, stakeholder experiences with business sustainability

Prof. Manipadma Datta

Teaching Interests: Corporate Finance, Corporate Accounting and Reporting, Legal Aspects of Business

Research Interests: Climate Finance, Responsible Investments, Integrated Reporting, Circular Economy Finance, Weather Derivative, Circular Economy Finance to Public Management, CSR, Strategic Management, Sustainability and Creativity, Valuation of Intangibles.

Dr. Montu Bose

Teaching Interests: Statistical Methods for Management, Managerial Economics, Health Economics, Health Financing, Economics of Social Sector and Public Health

Research Interests: Health Financing, Social Sector Management, Environmental Health, Sustainable Health Systems and Epidemiological Transition

Programme Assistant: Ms. Jyoti Mehlawat

Visiting Faculty	Designation	Organization
Dr Vinay Sharma	Consultant	Partners India
Dr. Zinaida Fadeeva	Research Fellow	United Nations University-Institute for Advanced Studies
Dr. Ambika Zutshi	Associate Professor	Deakin University, Australia
Dr Santosh Pande	Director	Nihilent Technologies Ltd
Dr Nikunj Jain	Assistant Professor	International Management Institute New Delhi
Dr. Umesh Gulla	Director	DigiGYAN Institute for Professional Training & Services
Dr Santosh Pande	Director	Nihilent Technologies Ltd
Anil Gupta	Director	GVC Ltd.
Ms Neha Suri	Associate Professor	FIIB
Dr. Sanjeeva Shivesh	Director	The Entrepreneurship School
Prof Jay Seelan	Consultant (Business Incubation)	Meghalaya Basin Development Authority (MBDA), Govt. of Meghalaya
Prof Sanjay Chandwani	CEO	Centre for Market Research & Social Development
Ms. Kanchi	Forest Governance & Environment Justice	Free Lancer
Dr. Swati Dhawan	Associate Professor	Delhi University
Dr. KK Jain	Associate Professor-Finance	Business School
Dr. Subodh Jain	Chairman	Etude services
Dr. Sanjeeva Shivesh	Director	The Entrepreneurship School
Dr. Neha Suri	Associate Professor	FIIB
Lovneesh Chanana	Vice President	SAP India Private Limited
Dr. Rudra Rameshwar	Professor / Management Faculty	Thapar School of Management, Thapar Institute of Engineering & Technology University, Patiala (Punjab) India

Programmes

M.B.A. (Business Sustainability)

Programme Overview

Businesses across the globe are realizing the importance of integrating sustainability into business practices. Much of the pressure is coming in through various stakeholders, such as the customers, shareholders, and the government. This has created a need for managers in different sectors-public, private and not for profit, to maintain a balance between three pillars of sustainability i.e. people, planet and profit. The MBA (Business Sustainability) at the TERI SAS equips students with acumen to lead in a resource-sensitive world amid increasing competition and concern for sustainable development. Different courses such as Principles and Concepts of Sustainability, Climate Change and Development, Sustainability Reporting, Corporate Social Responsibility, Strategies for sustainable business, Business, Natural Ecosystems and Community, Accounting and Finance for Sustainability taught in the programme help the students recognize the need, challenges and ways to approach long-term viability of businesses through management and optimization of resources without compromising on profitability and competitiveness.

MBA (BS): Program Specific Outcomes

- Ability to formulate, implement and evaluate sustainable business strategies
- Competency to make business decisions ethically, with social and environmental consciousness
- Leadership and teamwork skills for business sustainability
- Training in tools, techniques, and frameworks to think critically and communicate effectively
- Training in quantitative and qualitative methods for research

Programme Structure

Year/Semester	Course Title	Type	Credits
1 st Year			
1 st Semester	Total Credits		23
	Principles and concepts of sustainability	Core	2
	Business ethics	Core	2
	Sustainability Reporting	Core	2
	Managerial economics	Core	3
	Marketing management	Core	3
	Fundamentals of Management	Core	2
	Business communication	Core	3
	Statistical methods for management	Core	3
	Corporate accounting and reporting	Core	3
2nd Semester	Total Credits		21
	Legal aspects of business	Core	2
	Qualitative research methods in management	Core	2
	Strategies for Sustainable Business	Core	3
	Macroeconomic Environment	Core	3
	Corporate Finance	Core	3
	Management information system	Core	2

	Advanced statistical methods for management	Core	2
	Corporate Social Responsibility	Core	2
	Organisational behavior and leadership	Core	2
2 nd year			
3rd Semester	Total Credits		21 (15+6)
	Accounting and finance for sustainability	Core	3
	Minor Project	Core	6
	Entrepreneurship	Core	2
	Supply chain management	Core	2
	Business, Natural Ecosystems and Community	Core	2
	Health Finance	Elective	3
	Corporate governance	Elective	2
	Sustainable consumption and production	Elective	2
	Techniques of environmental valuation	Elective	4
	Financial intermediaries, institutions and regulations	Elective	2
	Integrated impact assessment	Elective	4
	Derivatives and risk management	Elective	2
	International financial management	Elective	2
	Business to business marketing	Elective	2

	Urban Governance	Elective	4
	Environmental management system	Elective	4
	Brand management	Elective	2
	Security analysis and portfolio management	Elective	2
	Production and Operations Management	Elective	3
	Consumer Behaviour	Elective	2
	Project design and management for sustainable development practice	Elective	4
	Social Entrepreneurship	Elective	2
	Design Thinking	Elective	2
4 th Semester	Major project	Core	14

MBA (Infrastructure)

Programme Overview

Infrastructure is the backbone of a nation's economy and tackling infrastructure problems is a key requirement for leveraging growth especially in developing economies like India. Amidst the changing global and domestic economic order, investments in infrastructure have become crucial in order to sustain the pace of economic growth. This has created a need for managers to lead and sustain organisations involved in infrastructure business.

The TERI SAS is the first University in the country to offer an MBA programme in infrastructure. The increasing emphasis on the infrastructure sector nowadays and the requirements of the industry necessitated a review of the existing programme. It was felt that a programme more focused on the sector would attract candidates, especially the mid- career professionals. However, fresh graduates who can demonstrate the ability to cope with the rigour of the programme can also apply.

The programme not only imparts the managerial skills in core subjects like any other conventional MBA course but also equips the students with acumen in infrastructure management by offering sectoral electives in water, energy, and urban infrastructure. The aim is to achieve a critical mass of expertise for effective management of infrastructure challenges across the country.



Eligibility:

- Bachelor's degree in any discipline with English at 10+2 level
- The candidate will be shortlisted based on CAT/MAT/GMAT/CMAT/XAT scores. Candidates who have not appeared for the above exams can take the TERI SAS common entrance test.
- Candidates with more than 2 years of relevant work experience may be exempted from requirement (2) above depending on the discretion of the selection committee.

Selection Process

The candidates will be shortlisted based on CAT/GMAT/MAT/CMAT/XAT or TERI SAS entrance exam scores (Candidates with more than 2 years of relevant work experience may be exempted from this requirement), depending on the discretion of the selection committee. Selection from shortlisted candidates will be on the basis of group discussions and interviews conducted by the University at New Delhi.

MBA (Infrastructure)

Year/ Semester	Course Title	Type	Credits
1 st year			
1 st Semester	Total Credits		20
	Module 1 Basics of Infrastructure Business		
	Introduction to Infrastructure Business	Core	2
	Economics of Infrastructure and Pricing Strategies	Core	2
	Infrastructure project finance	Core	2
	Corporate Accounting and Reporting	Core	2
	Corporate Finance	Core	2
	Statistical methods for management	Core	3
	Module 2 Law & Policy Framework for Infrastructure Business		
	Legal & Regulatory aspects of infrastructure	Core	2
	Business Laws and Infrastructure projects	Core	2
	Contract Laws	Core	2
	Environmental and Social Laws	Core	1
2 nd Semester	Total Credits		20
	Module 1 Strategy and Risk		
	Business Ethics	Core	1
	Strategic planning	Core	2
	Risk analysis and Implementation Management	Core	3
	Project Planning and management	Core	2
	Bidding System Management	Core	1
	Module 2 Operational aspects of Infrastructure		
	Quality Management	Core	2
	Management information systems	Core	2
	Infrastructure organization and HR	Core	3
	Logistics and supply chain management	Core	2
	Macroeconomic Environment	Core	3
2 nd Year			
3 rd Semester	Total Credits		23 (17+6)
	Minor Project	Core	6
	Integrated impact assessment	Core	3
	Public Private Partnership	Core	2
	Corporate governance	Core	2

	Innovation and change management for infrastructure projects	Core	2
	Strategic communication and stakeholder engagement	Core	2
	Advanced Logistics and Supply Chain Management	Elective	2
	Accounting and finance for sustainability	Elective	3
	Financial intermediaries, institutions and markets	Elective	2
	Sustainable Urban Transport	Elective	2
	Entrepreneurship	Elective	2
	Urban water supply and waste management	Elective	2
	Business to business marketing	Elective	2
	Total credits		
4 th Semester	Major Project	Core	14

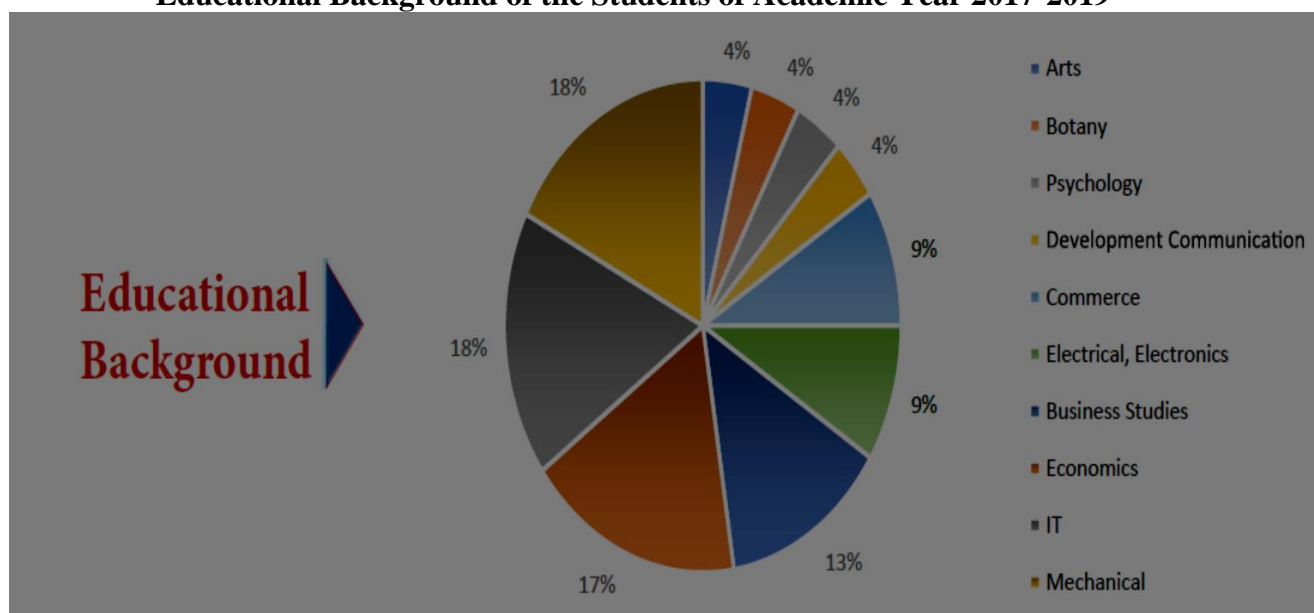
Student Intake:

Year	MBA (Business and Sustainability)	MBA (Infrastructure)	Total	Teacher-Student Ratio (Department Level)
2011-2013	29	18	47	1:15.6
2012-2014	27	14	41	1:13.6
2013-2015	8	-	8	1: 2.6
2014-2016	11	3	14	1:3.5
2015-2017	24	8	32	1: 8
2017-2019	23	-	23	1: 5.75
2018-2020	16	4	20	1: 5

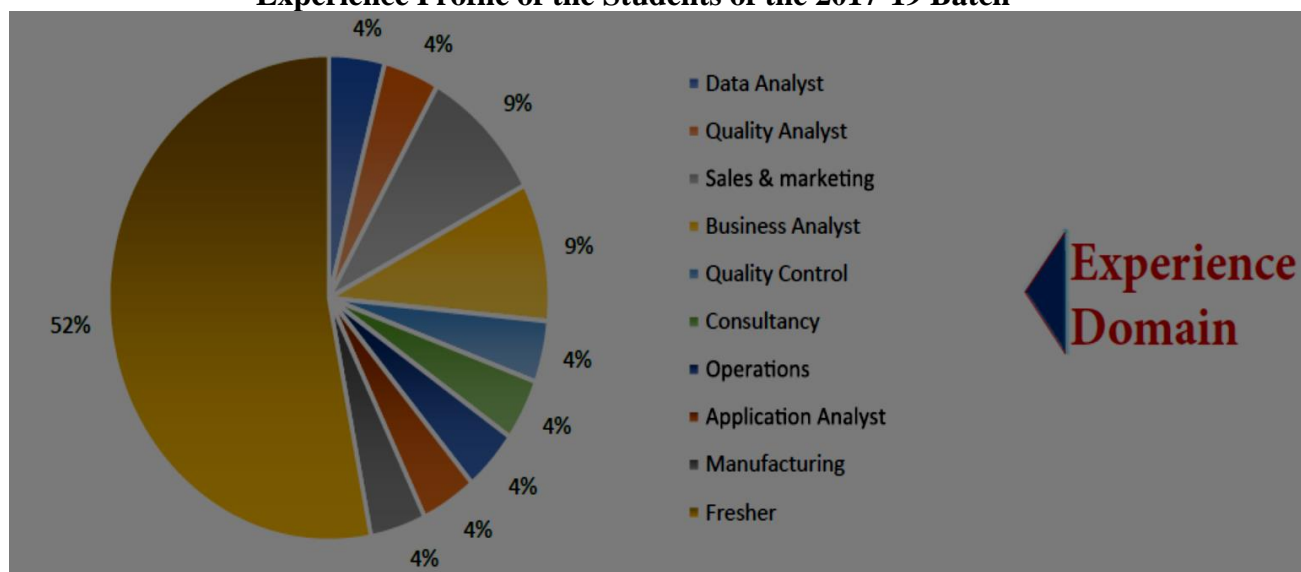
Student Profiles

Student Intake in Department of Business & Sustainability						
Year	MBA (BS)			MBA (Infra)		
	Male	Female	Total	Male	Female	Total
2017-19	10	13	23	0	0	0
2018-20	10	6	16	4	0	4

Educational Background of the Students of Academic Year 2017-2019



Experience Profile of the Students of the 2017-19 Batch



Duration of Work Experience of the 2017-19 Batch

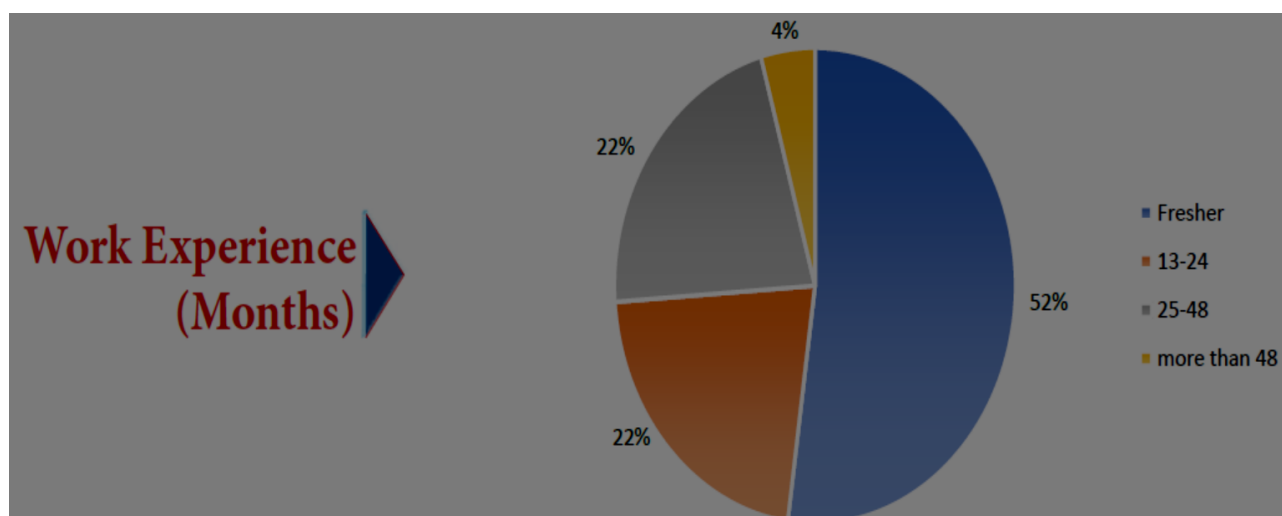


Table: Programme wise Percentage of Syllabus Revised

Programme name of revised syllabus	Year of revision	Percentage of Syllabus content added or replaced
M.B.A. (Business Sustainability)	2016	90%
M.B.A. (Infrastructure)	2015	20%

Programme name	Name of the new course introduced in last 5 years	Year of introduction
M.B.A. (Business Sustainability)	Principles and concepts of sustainability	2013
M.B.A. (Business Sustainability)	Business ethics	2013
M.B.A. (Business Sustainability)	Sustainability Reporting and CSR	2013
M.B.A. (Business Sustainability)	Managerial economics - 1	2013
M.B.A. (Business Sustainability)	Marketing management - 1	2013
M.B.A. (Business Sustainability)	Management functions and organisational behaviour	2015
M.B.A. (Business Sustainability)	Business communications	2015
M.B.A. (Business Sustainability)	Statistical methods for management	2013
M.B.A. (Business Sustainability)	Corporate accounting and reporting	2015
M.B.A. (Business Sustainability)	Legal aspect of business	2013
M.B.A. (Business Sustainability)	Managerial economics - 2	2013

Sustainability)		
M.B.A. (Business Sustainability)	Corporate finance	2015
M.B.A. (Business Sustainability)	Infrastructure policies reforms and law	2013
M.B.A. (Business Sustainability)	Management information system	2015
M.B.A. (Business Sustainability)	Quantitative methods in management - 2	2013
M.B.A. (Business Sustainability)	Accounting and finance for sustainability	2016
M.B.A. (Business Sustainability)	Marketing management - II	2014
M.B.A. (Business Sustainability)	Entrepreneurship Development and Management	2014
M.B.A. (Business Sustainability)	Corporate governance - challenges, evolution and future direction	2014
M.B.A. (Business Sustainability)	Supply chain management	2013
M.B.A. (Business Sustainability)	Contemporary issues in change management	2013
M.B.A. (Business Sustainability)	Community relationship	2014
M.B.A. (Business Sustainability)	Derivatives and risk management	2013
M.B.A. (Business Sustainability)	International financial management	2015
M.B.A. (Business Sustainability)	Business to business marketing	2014
M.B.A. (Business Sustainability)	Consumer behaviour	2014
M.B.A. (Infrastructure)	Statistical methods for management	2016
M.B.A. (Infrastructure)	Introduction to Infrastructure Business	2015
M.B.A. (Infrastructure)	Business Ethics	2013
M.B.A. (Infrastructure)	Strategic planning	2015
M.B.A. (Infrastructure)	Risk analysis and Implementation Management	2015
M.B.A. (Infrastructure)	Project planning and management	2015
M.B.A. (Infrastructure)	Bidding System Management	2015
M.B.A. (Infrastructure)	Legal & regulatory aspects of infrastructure	2015

M.B.A. (Infrastructure)	Business Laws and infrastructure projects	2015
M.B.A. (Infrastructure)	Contracts Law and Management (negotiation, management and conflict resolution)	2015
M.B.A. (Infrastructure)	Public Private Partnership - Challenges and Opportunities	2015
M.B.A. (Infrastructure)	Environmental and Social Laws	2015
M.B.A. (Infrastructure)	Macroeconomic Environment	2015
M.B.A. (Infrastructure)	Infrastructure project finance	2015
M.B.A. (Infrastructure)	Economics of Infrastructure and Pricing Strategies	2015
M.B.A. (Infrastructure)	Corporate Accounting and Reporting	2015
M.B.A. (Infrastructure)	Corporate Finance	2015
M.B.A. (Infrastructure)	Quality Management	2015
M.B.A. (Infrastructure)	Management information systems	2015
M.B.A. (Infrastructure)	Infrastructure organization and HR	2015
M.B.A. (Infrastructure)	Logistics and supply chain management	2015
M.B.A. (Infrastructure)	Strategic communication and stakeholder engagement	2015
M.B.A. (Infrastructure)	Corporate governance - challenges, evolution and future direction	2014
M.B.A. (Infrastructure)	Innovation and change management for infrastructure projects	2015
M.B.A. (Infrastructure)	Entrepreneurship Development and Management	2014
M.B.A. (Infrastructure)	Business to business marketing	2014

4. Best Practices

Our Strength: Pedagogy, Learning & Exposure

The pedagogy for both the programmes is rooted in the interdisciplinary approach the University follows. The instructors follow critical thinking approach where a student is given hands on training to provide solutions to sustainability problems the businesses are facing. The interaction is allowed between students from other departments and programmes and efforts are done to ensure that the students work on problems by knowledge exchange across disciplines. A range of open electives throughout the University facilitate this exchange. Pedagogy for MBA (Programmes) includes role-plays, group discussions, case study analysis, use of games and simulations along with lecture method. Training is also provided on softwares for data management and analysis. Teaching is research based as faculty members are extensively involved in carrying out research as well as publishing in good quality journals.





Term papers
Case studies
Debates/
Discussions
Poster
presentation
Role plays
Simulation games



Summer Internship,
and Major Research
Project
Campus 2 Corporate
programme
Field Trips
Industry Visits



Interface with Society
Community Engagement
Corporate Social Responsibility

Learning outside Classrooms

The rigorous academic curriculum is complemented with group activities and field visits. Industry interaction with sustainability experts, business heads, investors, entrepreneurs and academicians expose students to contemporary business sustainability, environmental and corporate governance issues.



Students visit Open Cast Coal Mines, Dhanbad (November 2017)



Industrial visits such as Jharkhand coal mines, Maruti and Unilever production sites instils deep interest in students. They partake ecological restoration, livelihood generation and local body and citizen interaction programs to understand industrial impacts on ecosystem services.

Students practicing CSR at the Community level



Study Tours: Study tour is an integral part of our curriculum. Students visit various places twice in their entire two-year tenure at the Institute. The places are chosen based on three criterion – at least an urban locality, at least a natural habitat and at least a village.

Study Tour at Alwar, Rajasthan 2018



Study Tour 2018: Village Sariska, Rajasthan



Study Tour 2018: Bharatpur Bird Sanctuary



Evaluation System

The Department emphasizes on continuous evaluation and unique methods of evaluating learning outcomes. Some examples are given below.

- Open book exam for the course principles and concepts of sustainability
- Research project in the course qualitative research methods in management where students conduct a primary data-based survey. Evaluation is based on various components submitted throughout the semester like abstract, literature review, proposal, and final paper.
- Fieldwork based assignment in the course Business, Natural Ecosystems and Community. Students go for field visits to suitable locations to understand various aspects taught in the course. A concept note is prepared based on the field visit and followed Presentation and submission of Field visit report. Weightage is assigned to all the components.
- Minor and Major project reports of the MBA programmes are based on experiential learning of the candidates where they spend a minimum of 6 weeks and 10 weeks respectively in the industry to gain insights into the working of organizations and put classroom learning into perspective.

- Book Review, and industry visit to study application of concepts and principles for the OB course.
- Group activity aimed at understanding the industry, competition and strategy of a firm for the course Marketing Management. The group has to choose a company in consultation with the faculty, plot the products in the product line on the PLC, create a product mix, explain the pricing strategy and provide an innovative promotional campaign

Curriculum Revision

For curriculum revision, structured feedback is collected from various stakeholders including industry experts, academicians, alumni and students through a questionnaire-based survey. In 2018, a report on structured feedback for MBA (Business Sustainability) programme was presented by the Program Coordinator to the Academic Council on behalf of the Department of Business and Sustainability. Key findings from the survey formed the basis of changes made in the MBA (BS) program from January 2018 onward including consolidation of existing courses, and introduction of new courses in demand in the job market.

Student Placements

The campus recruitment activity for the MBA (Business Sustainability) and MBA (Infrastructure) programme is conducted to serve dual purposes, placement of the students for their final project which is undertaken in the fourth semester, and the formal job recruitment on completion of the programme.

Year	Total Students	Placed	% of Students Placed
2018	31	27	87
2017	8	7	88%
2016	14	13	93%
2015	31	29	94%
2014	36	30	83%
2013	46	40	87%
2012	45	42	93%

Leading Organizations where students are placed:

Consulting <ul style="list-style-type: none"> – KPMG – E & Y – Next Gen PMS – IMRB International – Vox Populi Research – E Value Serve – Louis Berger – Emergent Ventures – Ipsos Research – Ernst & Young – IPE Global – RSM-GC 	Energy <ul style="list-style-type: none"> – IREDA – IDAM Infrastructure – Reconnect Energy – Schneider Electric – Sun Alpha Energy – Infraline energy – ICF International – World energy Council – Indian energy Exchange – SN Power(Statkraft) – EKI Energy – Intelligrow
Academic Institutions <ul style="list-style-type: none"> – Ashoka University – Next Gen PMS – Orange education 	International Organisations <ul style="list-style-type: none"> – UNIDO – WBCSD – TERI – Development Alternatives – Sulabh international – UN Global Compact
Others <ul style="list-style-type: none"> – Macmillan Publishers – Havells India – Decathlon Sports India – Shakti Pumps – Galaxy Surfactants 	Oil & Gas <ul style="list-style-type: none"> - HPCL - Bharat Petroleum - ONGC - GAIL - Oil India

<ul style="list-style-type: none"> – Godrej Agrovet – OYO Rooms – National Innovation Foundations – PPAP Automotive 	
Industry Associations <ul style="list-style-type: none"> – CII – FICCI – SIAM 	Financial Institutions <ul style="list-style-type: none"> - HSBC Bank - Mahindra Finance - American Express
IT Sector <ul style="list-style-type: none"> - TCS - Dell International - Infosys 	Cement Industry <ul style="list-style-type: none"> - Ultra Tech Cement - Ambuja Cement

Our placement process consists of two phases

Major Project

Recruitment Period

October–December 2018

Availability of Students

January–June 2019

Job Placement

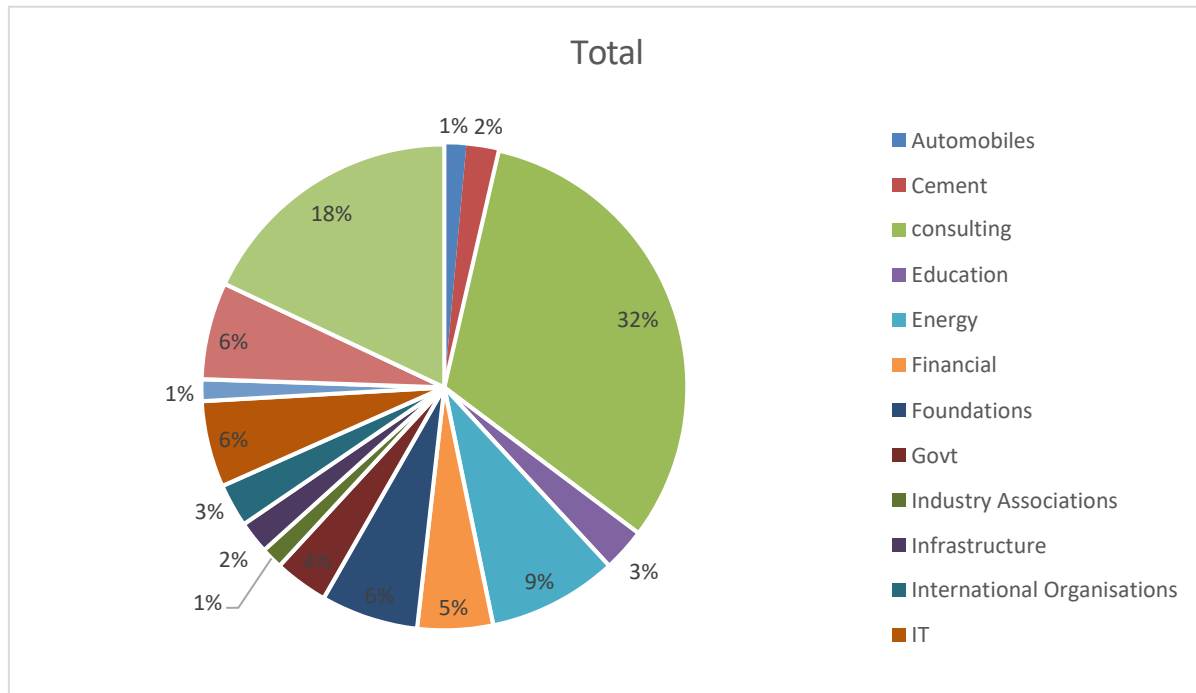
Recruitment Period

October 2018–June 2019

Availability of Students

June 2019 onwards

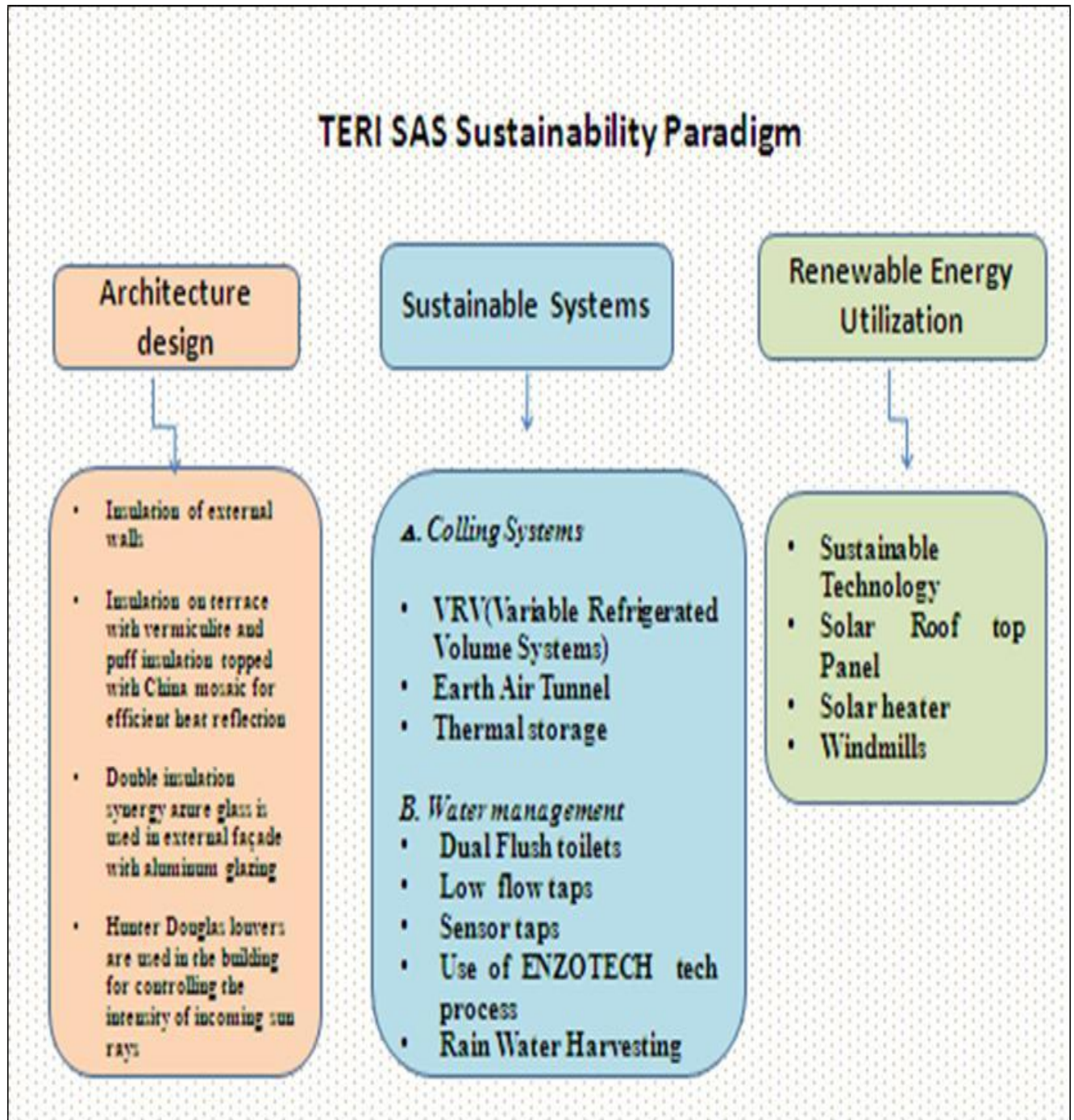
Sectoral placement of Students



Integrating Sustainability in Management Education

Our uniqueness lies in differentiating ourselves with respect to integrating sustainability with business education. We are a member of PRME (UN Initiative) and the department submitted its first PRME report in 2018. The department is fully engaged with PRME secretariat and other signatories for our commitment towards spreading awareness on responsible management education and integrating sustainability in business school curriculum. The faculty and students have been part of both PRME Asia Forums held last year in Mumbai and Delhi respectively.

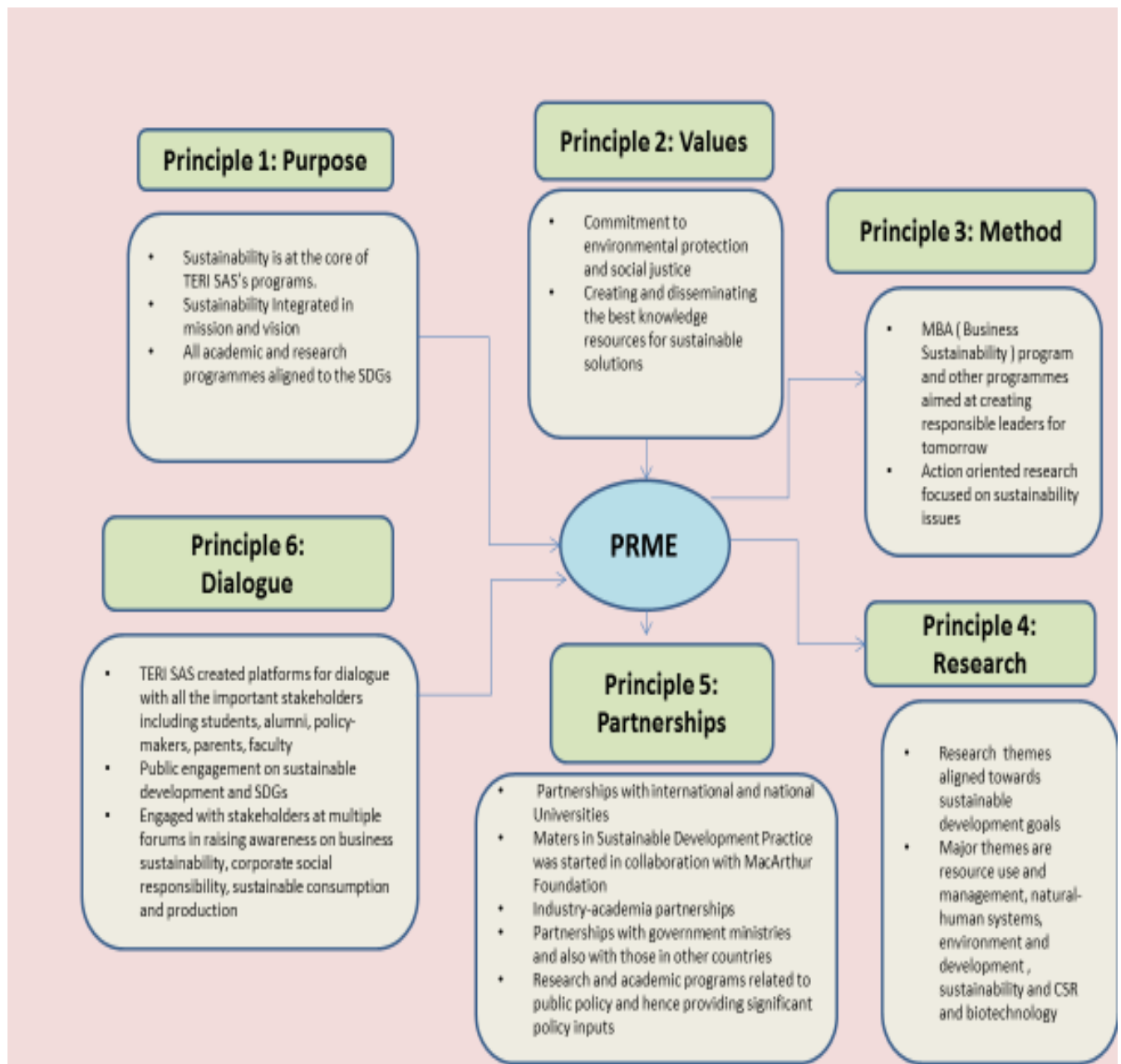
TERI SAS Sustainability Paradigm



Integrating PRME into Educational System

PRME's six principles, which each member institution is expected to abide by are also followed by TERI SAS as exhibited in the figure-2 below:

Six Major PRME Principles



The courses offered nurture students ability to inculcate management and sustainability to create sustainable business models of tomorrow, a need of the hour.

Course----Key Notes --- Key Applications

General Management Subjects	Corporate Accounting and Finance, Accounting for Finance and Sustainability	Financial statements, Leverages, Cost Accounting, Risk and return, Green Accounting, Responsible Investment	Role of Finance in Corporate strategy, Sustainable Finance
	Managerial Economics, Statistical Methods of Management, Qualitative Research Methods, Quantitative Methods in Management	Demand and Supply, Production theory, effect of taxes, Regression, Co-relation analysis, Hypothesis testing, Data collection, Research Methodologies	Economic decision making, Statistical Analytics, Forecasting, Market research
	Productions and Operations, Supply Chain Management,	Inventory management, Queuing Theory, Linear programming, Distribution Channels,	Planning and Scheduling, Logistics Network, Build and improvise supply chain
	Marketing Management, Business Communication, Organization Behavior	Marketing Mix, Motivation theories, Group vs Individual behavior	Marketing Strategies, Sales and Pricing Plans, Business proposals, Market Research, Team Building, Leadership
Sustainability Related Subjects	Business Ethics, Sustainability Reporting, Principles and concepts of sustainability	Ethics in Management, Reporting on economic, environmental, and social impacts, CSR	Sustainability risk assessment, GRI reporting,
	Strategies for Sustainable Business, Environmental Economics, Business, Natural Ecosystems and community	Core competency, Porter's generic strategies Government and fiscal policies, Environmental benefits and costs, Strategies for community relationship and engagement	Strategy Formulation, Policy making and Research Impact assessment of Business Projects

VALUES

We will incorporate into our academic activities and curricula the values of global social responsibility as portrayed in international initiatives such as the United Nations Global Compact

The Faculty is committed to systematically embed values of social responsibility across all its courses. However, there are few direct courses in our programmes which are directly linked to ethics and value. The courses are –

BUSINESS ETHICS

An important element of any corporate organization during its interactions with its environment is how it deals with ethical issues. What does it consider as acceptable /unacceptable and the extent to which a business accepts its responsibility are some key issues for study? From time to time corporate scandals have demonstrated that managerial decision-making invariably has ethical implications. However, these ethical implications are seldom given any serious thought and get viewed as just byproducts of mistaken action, instead of understanding that they comprise the prime ingredients of business decisions.

LEGAL AND REGULATORY ASPECTS OF INFRASTRUCTURE

This course provides an overview of the Constitutional and general legal context in which the infrastructure sector operates. It also covers the legislative and policy framework within which the specific infrastructure activity has to be undertaken. Special emphasis is placed on the regulatory law of different infrastructure sectors and attempts to undertake a comparative assessment of the regulatory laws and policies of different infrastructure sectors.

BUSINESS LAWS

Business works under a defined set of laws and a predictable legal regime provides a stable environment conducive for overall business development. The course covering Companies Act;

the Industries (Development and Regulation) Act 1951; Industrial Disputes Act; the Competition Act, 2002; the Arbitration and Conciliation Act, 1996; the Foreign Exchange Management Act (FEMA), 1999; introduction to taxation system; Policies relating to Foreign Direct Investment, FIIs; Multilateral Guarantee System, taught through various case studies expose students to various sets of laws and regulatory regime that interact with business on a day to day basis.

LAND, ENVIRONMENTAL AND OTHER LAWS

Laws relating to land acquisition, environment, labour etc. have an important role to play in the various phases of an infrastructure project. This course tries to analyse these laws and their application in infrastructure projects during the development, construction, operation and demobilization phases.

Method

We embed the values of environment and sustainability into our courses and actively involve organisations in developing the student experience. Our courses are backed by high-quality contemporary research and developed in consultation with industry to ensure graduates are ready for their chosen career. We highlight several exemplary units below:

PRINCIPLES & CONCEPTS OF SUSTAINABILITY:

This course focuses to empower students to critically analyse different, often competing, definitions of sustainability driven by perspectives and interests of societal stakeholders. It introduces sustainability visions and practices relevant for the business community. A special emphasis is given to provide historical perspective to the concepts, and strategies employed by businesses and their stakeholders as well as various ideological interpretations of these concepts and strategies in individual contexts. Finally, students are encouraged to work with discussion of multiple solutions for sustainability challenges.

INTRODUCTION TO SUSTAINABLE DEVELOPMENT

The course seeks to build an inter-disciplinary perspective on understanding sustainable development concerns and challenges. This course familiarizes students with current debates and perspectives in analyzing constraints and opportunities for sustainable development. It also aims to provide students with a general introduction to the basic core competencies and practical skills required of a “generalist” development practitioner.

CORPORATE ACCOUNTING AND REPORTING

The course is designed in a way to make the program participants learn the basics of accounting; how the accounting information system works in a firm; how the accounting information does help managerial decision-making process; how to analyze the performance vis-à-vis financial health of the firm; and, how accounting acts as a control mechanism.

STRATEGIES FOR SUSTAINABLE BUSINESSES

This course is a basic strategic management course covering all aspects of strategy i.e. environmental analysis, internal analysis, strategic advantage analysis, strategy formulation, implementation and control. The course has been designed keeping in view the increasing need for environmental sustainability into products, markets and functional strategies of companies as demanded by stakeholders and regulatory authorities and hence at each step, due emphasis has been given on the sustainable aspect of strategy formulation and implementation.

ENVIRONMENTAL ECONOMICS:

This course familiarizes students with the theory and application of economics to environmental problems and prepare them for analyzing issues in environmental economics and policy. It focuses on the design of cost-effective environmental policies and on methods for determining the value of environmental amenities. The course relies on select mathematical methods and techniques such as differentiation, select methods in econometrics.

BUSINESS, NATURAL ECOSYSTEMS AND COMMUNITY

Biodiversity and ecosystems are increasingly being recognized as critical natural resource and business issues as geographical areas selected by organizations as a source of materials or supplies

are relied upon at an operational level and impact business decision making. There may also be non- financial costs that warrant recognition and measurement, with reference to water scarcity issues and knock on impacts of industrial production on other local industries such as farming or fishing. However, there are other impacts on natural resources which need immediate attention in context of business dependencies and community development. The course explores the drivers, regulatory pressures, frameworks and, most significantly, the business case for ecosystem service measurement and management and social issues associated with it.

ACCOUNTING AND FINANCE FOR SUSTAINABILITY:

The course intends to expose the learners to the emerging world of sustainability-centered accounting and finance. The field is emerging. There are many challenges to standardize the practices. Different experiments and research are on. So, it's a felt need of importance that the budding managers develop a clear perspective to actively contribute to the evolving process of newer paradigm.

SUSTAINABLE CONSUMPTION AND PRODUCTION:

Countries in South Asian region are witnessing rapid transformation. It is evident that future prosperity and transition to sustainability in this region will be highly influenced by changes in development of the countries and businesses as well as in consumption patterns and lifestyles. There are noticeable awareness generation and capacity building initiatives aiming to promote a shift towards sustainable consumption and production (SCP) patterns and resource efficiency for green growth and poverty reduction in South Asian region. The enabling policy environment needs to be strengthened through enhanced capacity of future decision makers in order to ensure balance between demand and supply side towards SCP. Advanced knowledge, skills and commitment of policy makers and graduates today are critical constituents necessary to structure and successfully implement sustainable development policies in future. India in particular, with its young population is likely to rise from twelfth-largest consumer market today, to become world's fifth-largest consumer market by 2025. While the significance of SCP and resource efficiency is well accepted in India, imparting knowledge to policy and decision makers shall facilitate an enabling environment for comprehensive integration of SCP into policy making. This is being aimed through the first-of-its-kind post graduate course in India for young policy and decision makers

4. PhD Programme

The Doctoral Program is intended to encourage meaningful research on issues that have a potential fallout on the sustainability of business. Most of our students are exploring issues related to business sustainability, CSR, Environmental management etc. The thought process behind TERI SAS - in addition to building capacity around various themes of sustainable development - was to develop an infrastructure aligned with the different teaching programmes, so students could study real and practical aspects of sustainable development. To move further in this direction, the courses were developed against the backdrop of sustainable development.

Preferred areas of research

- Corporate Social responsibility
- Socially Responsible Businesses
- Sustainability Reporting and Standards
- Strategies for Sustainable Businesses
- Responsible Management Education
- Organizational Behavior, Change Management, leadership
- Sustainable Health Systems
- Building inclusive and Sustainable Supply Chains
- Sustainable Finance

Admissions

Admission are made based on written tests and interview. A weightage of 70% to the written tests and 30% to the performance in interviews shall be given. Written test will have two papers of equal weightage. Paper I will be on 'Research Methodology' which will be a common paper for admission in all departments of the University. Paper II will be department/subject specific.

Time Limit for PhD Work:

(a) Candidates having a B.Tech./M.A./M.Sc. or equivalent degree are required to be registered for a period of not less than three years from the commencement of course work (date of registration). In exceptional cases the minimum period of registration may be reduced to two years with the approval of the Academic Council. The minimum period of registration for candidates having an M.Tech. or M.Phil equivalent degree is two years. The minimum period of registration for part-time students will be five years

(b)* A candidate is normally expected to submit his/her thesis within five years from the date of registration. This period may be extended by the Academic Council as a special case to a maximum of seven years after which the registration will stand cancelled.

(c) A full-time candidate may be allowed by the Chairperson, Academic Council, to convert his/her registration into part-time registration only after completion of three years from initial registration or after submission of a synopsis, whichever is earlier.

(d) Full-time Ph.D. scholars with M.Tech. qualification can be permitted to convert their registration from full-time to part-time after one year or after completion of course work and comprehensive examination whichever is later, if they get employed in the University's/ TERI's sponsored projects.

(e) Full-time Ph.D. scholars in the Faculty of Applied Sciences with M.Sc. qualifications can be permitted to convert their registration from full-time to part-time after two years or after completion of course work and comprehensive examination, whichever is later, if they get employed in the University's/TERI's sponsored projects. Such conversion will be permissible only if the work is in the projects of the University/TERI and not for employment outside. This provision will also be applicable to Ph.D. scholars with a B.Tech. degree.

* This maximum time period for submission of thesis is under review and is likely to be revised downward, subject to approvals.

PhD students Enrolled at DBS

Name	Topic	Year of registration	Supervisor	Whether Awarded
Achla Behl	A study on the Evaluation of the Mobile Medical Units (MMUs) in Uttarakhand	7/1/2010	Dr Sapna A.Narula	
Vipan Kumar	Mapping Climate Technologies for Energy Sector in India: A Comparative Study vis-à-vis China and US	2010-11	Dr Sapna A. Narula	Yes
Neeraj Dangi	Consumer Buying Behavior in organic food and the role of eco-labels	2011-12	Dr Sapna A. Narula	
Anupriya Sharma	A Study of Environmental and Social Practices in Indian Textile Industry	1/7/2013	Dr Sapna A. Narula	
Nidhi Gautam	Searching for Financial Sustainability of Micro, small and Medium Enterprises (MSMEs) in India: An analysis in retrospect and prspect	1/7/2013	Dr. Akash Sondhi	
Amit Kumar Thakur	Corporate Social Responsibility and Business Sustainability in India - In Retrospect and Prospect	7/22/2013	Dr Manipadm Datta	
Shinu Vig	Corporate governance and sustainable value creation in Business: A study of select Indian firms	7/22/2013	DrManipadmaDatta	
Vivek Tyagi	Studying cases of business failures: A critical analysis aiming enhanced business sustainability	1/6/2014	Dr Manipadma Datta	Yes
Sangeeta Agasty	Diffusion of cleaner production innovation in MSME sector in India: a study of Drivers and inhibitors in select sectors	7/21/2014	Dr Sapna A. Narula	
Sulaksha Shetty	A study on organisation and its leadership for sustainable development with particular reference to the Indian situation	1/5/2015	Dr Manipadma Datta	
Anushree Poddar	CSR Orientation, Implementation and its relation	7/20/2015	Dr Sapna A. Narula	

	with Firm Performance - A study of selected firms in India			
Himanshu Arora	A study on sustainability reporting process & practices of energy sector	7/20/2015	Dr Sapna A. Narula	
Manjusha Jain		7/24/2017	Dr Manipadma Datta	
Amit Nanda		1/18/2018	Dr Ritika Mahajan	

5. Research

The Faculty has an ambitious research agenda that is built upon multidisciplinary and interdisciplinary work, international research collaborations and a deep understanding and appreciation of global social responsibility.

At the Department of Business and Sustainability, we believe it is our inherent duty to help businesses embrace sustainability at all levels

- Faculty engaged in both research and consultancy assignments with corporates / multilateral organizations.
- Sectoral focus of our research engagements is diverse i.e. **infrastructure, energy, textiles, mining, hospitality, agriculture and forestry, oil and gas, health, education**
- Teaching in MBA programmes is deeply embedded around the research.
- Findings of this research reach the classrooms in form of **business cases, practical modules, role playing and publications.**
- Students are involved in live research projects being undertaken by faculty.

Through a dedicated team of research scholars, the faculty is undertaking research in following areas:

- Corporate Sustainability
- CSR and Business Ethics
- Sustainability Reporting and Sustainability standards
- Responsible Investments
- Business, Ecosystems and Community
- Integrating Sustainability in Management Education (SIME)

- Financial Reporting and International Financial Accounting Standards (IFRS), Green Indices
- Financial and Weather Derivatives
- Climate Change and Implications on Business
- Sustainable Consumption and Production
- Green supply Chains
- Agribusiness and Food Supply Chain issues
- Environmental Health, Equity in Healthcare Access and Financing, Health Systems and Epidemiological Transition
- ICTs for Sustainable Development
- Eco-entrepreneurship
- Infrastructure Financing and Projects
- Value chain Analysis of Forest Products

PARTNERSHIPS (Deptt. Specific)

Besides the University level collaboration, the Department has very specifically engaged with business schools in various capacities for knowledge exchange. There are regular visits of faculty from these schools who interact with staff and students as teaching and engagement. The department is also seeking more collaborations with Universities across the world

Deakin University, Australia

Western Sydney University, Australia

Copenhagen Business School, Denmark

Martin Whitman School of Management, Syracuse University, US

Deptt of Management, RMIT, Australia

Appalachian State University

United Nations University, Japan

University of Graz, Austria

Friere University, Berlin

RESEARCH & CONSULTANCY PROJECTS

SN O	SPONSOR'S NAME	PROJECT NAME	PROJECT INVESTIGATOR	PROJEC T START DATE	PROJECT CLOSING DATE	CURREN CY	PROJECT AMOUNT SANCTIONED
1	Decentralized Off Grid Electricity Generation in Developing Countries*	University of Dundee	Dr. Arabinda Mishra/ Dr. Sapna A. Narula/ Dr. Gopal Sarangi	01.04.2009	31.03.2016	INR	19,984,843
2	Registration Fee	Building Learning in Sustainability Science (BLISS)	Dr. Sapna Narula Arora	16.05.2013	31.07.2013	INR	2,50,000
3	Sustainable livelihood activities on reclaimed open cast coal mines: a technology enabled integrated approach in Indian Coal sector**	Ministry of Coal	Dr. Arabinda Mishra/Dr. Sudipto Chatterjee/Dr. Sapna Arora Narula	01.04.2015	31.03.2018	INR	30,000,000
4	Amar Ujala Publications Limited, Bharat Petroleum Corporation Limited, Mature Media Limited, Orient Cement Limited, Agriculture Skill Council of India, Jindal Saw Limited, Container Corporation India Limited, The Cotton Corporation of India Limited & Misc.	International Conference on Business Economics and Sustainable Development - 2018	Dr. Manipadma Datta	22.02.2018	23.02.2018	INR	744,492
5	German Cooperation Deutsche Zusammenarbeit	Hosting of Exhibition on German Energy Transition in TERI SAS on behalf of GIZ Betreuung der Wanderausstellung Deutschlands Energiewende Project	Dr. Rajiv Seth	19.03.2018	23.03.2018	INR	408,870
6	Ernst & Young	International Conference on Business, Economics and Sustainable Development (ICBESD 2019)	Dr. Manipadma Datta	17.01.2019	18.01.2019	INR	1,000,000
7	Hazardous Substance Management (HSM), Chulalongkorn University and United Nations Environment Programme	Key Person of Module 4 'Business Models' in Asian Circular Economy Leadership Academy	Dr. Ritika Mahajan	01.11.2018	31.03.2019	USD	7,500
8	L&T Financial Services	Finclusion: Empowering	Dr. Sapna Narula	01.02.2019	01.02.2019	INR	3,80,650

		Women through Digital Finance	Arora				
9	University of Guelph	Research Grant: A study of MSME Enterprises	Dr. Sapna Narula Arora	01.04.2014	31.03.2016	CAD	7,500
10	Deakin University	Sustainability Strategies of Indian Hotel Industry	Dr. Sapna Narula Arora	01.04.2013	31.03.2015	AUD \$	2,275
11	Sonalika Social Development Society, Agriculture Insurance Company of India Limited, Indian council of Agricultural Research, Agricultural Insurance Corporation of India, TATA Trusts, Syracuse University, CSIR+OTHER SOURCES	International Conference on Agribusiness in Emerging Economics - 2018	Dr. Sapna Arora Narula	03.01.2018	04.01.2018	INR	19, 50, 000
12.	Indian Oil, PPAP Automotives, SB Energy	MDP on Sustainability Reporting	Dr. Sapna Arora Narula	16. 8.2018	17.8.2018	INR	3.00.000

*This project was in conjunction with Deptt of Policy Studies, TERi SAS

**This project was in conjunction with Deptt of Natural Resources, TERi SAS

6. Management Development Programme

One of the main objectives of our department is to encourage learning at all levels of management and hence need to provide capacity building in area of sustainability and CSR for working professionals is our prime focus. Conducted both structured and tailor-made MDPs on Sustainability Reporting, Corporate Social Responsibility, Integrating Sustainability in Business where we had participants from diverse industry sectors including Hindustan Petroleum, ONGC, BCCL, Vedanta, Mahindra and Mahindra.

- Two days Training of Trainers programme was held during World Environment Day Celebration at Dhanbad on **“Eco-Restoration and Livelihood activities in Coal Mining Areas”**. This training was attended by **40 officials of BCCL** i.e, Assistant Environment Managers, Management Trainees and others. The programme was inaugurated by Shri B K Panda, Director (Personnel), BCCL, Shri D. Gangopadhyay, Director (Technical) P&P, BCCL. Dr. Sapna A. Narula delivered a lecture on Sustainable Livelihoods , Dr. Sudipto Chatterjee deliberated the participants about Eco-restoration on Coal Mining Areas, Dr. Raj Shekhar (Sr. Scientist, CIMFR) Talked about the Carbon Sequestration and Climate Change, Dr. S K Maiti (Prof. ISM, Dhanbad) delivered a lecture on Land Reclamation and Dr. Ajay Kumar (Sr. Scientist ,CIMFR talked about Clean Coal Technologies)



List of other MDPs organized are –

- Reporting Sustainability in Business at TERI School of Advanced Studies, New Delhi (August 20-21, 2018)
- MDP for Bharat Coking Coal Ltd Official on Feb 14-15, 2018 on Eco-Restoration and Livelihood activities in Coal Mining Areas: Opportunities and Challenges
- MDP on Eco-restoration & Sustainable Livelihoods for BCCL Officers at Dhanbad (June 6-7, 2017)
- Sustainability for HPCL Officers (March 20-21, 2017)
- Reporting Sustainability in Business (July 6-8, 2016)
- Building Learning in Sustainability Science (BLISS) Winter School on Sustainable Consumption and Production from 02-Nov-2015 to 06-Nov-2015 (5 days); funding agency: United Nations Environment Programme
- Building Learning in Sustainability Science (BLISS) Summer School on Sustainable Consumption and Production from 18-Apr-2016 to 22-Apr-2016 (5 days); funding agency: United Nations Environment Programme
- Workshop on Business Communication from 17-Mar-2015 to 17-Mar-2015 at TERI University

- Co-organized Seminar on Qualitative Research Methods for Interdisciplinary Research from 07-Apr-2016 to 08-Apr-2016 at TERI University
- Co-organized Building Learning in Sustainability Science (BLISS) Summer School on Embracing People and Planet from 10-Mar-2014 to 14-Mar-2014 at TERI University
- Seminar on Student's Initiative for Integrated Rural Development (SIIRD) from 20-Feb-2015 to 20-Feb-2015 at TERI University

7. Outreach

INTERNATIONAL CONFERENCE ON AGRIBUSINESS IN EMERGING ECONOMICS (JANUARY 3-4, 2018)

This conference brought together scholars, practitioners, policymakers, and other stakeholders from around the world to present and share their original research and expertise on agribusiness in the developing and emerging economies. The conference covered a broad spectrum of themes, methodologies, and research approaches including empirical, conceptual, review, and case studies. Whitman School of Management, the South Asia Centre at Syracuse University in the United States and the Journal of Agribusiness in Developing and Emerging Economies (JADEE) were the primary collaborator of the conference. Over 230 participants from India, Bangladesh, United Kingdom, Nepal, Nigeria, Mexico, the United States of America, Uganda, Indonesia, Malaysia, and Iran attended the conference, which was a great platform to showcase work in the field of agribusiness. The conference was kept in lines with the SDGs where keynote speakers from around the world chaired various sessions, these sessions were co-hosted by ICIMOD, ICAR, IFPRI, UN Global Compact, BCCL, HUC, Amul Dairy, Sonalika Tractors.

International Conference on Agribusiness in Emerging Economics



INTERNATIONAL CONFERENCE ON BUSINESS, ECONOMICS & SUSTAINABLE DEVELOPMENT (ICBESD 22 - 23 2018)

In view of the changing scenario of risks, environmental and otherwise, it has become imperative for a paradigm shift in business and economics. We need a development that will have zero impact on environment and should not be at the cost of posterity: sustainable development. In fact, business is being increasingly viewed by all the stakeholder groups involved as a powerful force in promoting the cause of sustainable development. The future lies with firms that internalize stakeholder inclusivity, resource efficiency, and environmental conservation as key elements in their core business strategy and process. However, it is easier said than done.

A plethora of research works are already in place to take up the challenges. Sustainable business or business sustainability is no more that unknown in our economic vocabulary.

The efforts have received a new fillip with the declaration of Sustainable Development Goals (SDG)- the 2030 Agenda by the UN. In this backdrop, the Department of Business and Sustainability, TERI SAS, the pioneer institution of international importance in sustainability research, had resolved by providing a platform to the likeminded researchers by hosting its annual international conference: ICBESD 2018. The conference brought together various stakeholders including academia, industry, government, to discuss the need, challenges, and roadmap to approach long-term viability of business without compromising on profitability, competitiveness, and sustainable development.

ICBESD 2018



The First International Conference on Business, Economics, and Sustainable Development organized in 2018 (ICBESD 2018) was a grand success with your active participation and patronage all over the globe. Here is a glimpse of The 2nd International Conference on Business, Economics and Sustainable Development (ICBESD 2019) held on January 17-18, 2019, in collaboration with the Government of India Rooftop Solar Assistance Program supported by the World Bank.

Papers received: more than 150

Participants: around 200

Countries represented: UK, Canada, Italy, Kuwait, Bangladesh, Bahrain, Malaysia, Nigeria, Mexico, Spain and Poland.

Institutional Representation:

- IIMs, IITs, B-schools like MDI, IMT, Symbiosis, BITS Pilani,
- Central Universities of Kashmir, Haryana, Rajasthan and the like,
- JNU, BHU, AMU, DU, University of Calcutta
- corporate organizations like EY, PwC, Adani Port and SEZ Ltd., Indian Railways



PRAVAAH 2017 /- 2018





**CEO
ROUND TABLE
ON
RESPONSIBLE
BUSINESS**

**Masterclass
on
Business
Sustainability**

GREEN SHIFT
INNOVATIVE SOLUTIONS
FOR A GREEN INDUSTRY





MAD-ADS

Sustainability Quiz

**Sustainability
through your lens**

Film Making

Just A Minute

 terisas.ac.in/pravaah  pravaah@terisas.ac.in  www.fac-book.com/PravaahTERI/  https://www.instagram.com/pravaah_teri/  Wednesday, 31st October



TERI SAS joined L and T financial services as an academic partner for a participatory dialogue on opportunities and challenges of digital finance for women empowerment.



Dr. Sapna A. Narula delivers a talk on Leadership for Sustainability at Faculty of Business and Law at [Deakin University](#), Australia, as a visiting Academic.



Experiential learning is an important part of MBA curriculum at TERI SAS. As a part of their field trip to Goa during March 4-8, students of MBA (Business Sustainability) visited Hindustan Unilever Ltd, Vedanta Eco-restoration and CSR initiatives and TERI field sites to study sustainability strategy, CSR practices and upcoming sustainable technologies.





8. Publications

Narula, S.A., Magray, M.A., Mathur, A (2019).: Business –Community Engagement: A Case of Mining Company in India (Accepted in Business Strategy and Development)

Poddar, A., Narula, S.A. & Zutshi, A. (2019) A Study of Corporate Social Responsibility Practices of the top BSE 500 Companies in India and their alignment with Sustainable Development Goals CSR and Environmental Management (published online March, 2019: doi.org/10.1002) (Impact Factor: 4.918)

Poddar, A. & Narula, S.A. (2018) Sustainability Reporting practices in India: A Study of Selected Conglomerates; *Strategic Change*, 27 (6), 543-557

Narula, S.A., Magray, M.A., Desore, A. (2018): A Sustainable Livelihood Framework to implement CSR in Coal Mining Sector, *Journal of Sustainable Mining*, 16 (2), 83-9.

Kumar, V. & Narula, S.A. (2017): Social Networking Analysis of Renewable Energy Research in India, *Journal of Scientiometric Research*, 6(92), 102-108.

Narula, S.A. and Bhattacharyya, S., (2017): Off-grid Electricity Interventions for Cleaner Livelihoods: A Case study of Value Chain Development in Dhenkanal District of Odisha. *Journal of Cleaner Production*, 142, pp.191-202. (Impact Factor of Journal: Five-year Impact Factor: 6.2 and current year:5.715).

Desore, A. and Narula, S.A. (2017), An Overview on Corporate Response towards Sustainability 12. Issues in Textile Industry. *Environment, Development and Sustainability*, pp.1- 21. (2015-16 RG Journal Impact: 1.54)

Magray, M.A., Narula, S.A & Anwer, R. (2017): Scope of Lac as Enterprise Development in Jharkhand; *Indian Journal of Economics and Development*, 13 (2), 387-392 (NAAS Score of Journal- 4.82).

Khanna, A. B. & Kumar, V. (2017): Mobile Medical Units-Can they improve the quality of Health Services in Developing Countries? *Journal of Health Management*, 19 (3), 508-521

Agasty, S., Raut, M., Narula, S.A., Yap, N., Vaidyanathan G (2016): Using Innovation Diffusion Approach to understand factors determining Innovative Practices amongst microunits at Kolkata and Howrah; *International Journal of Development and Social Research*, 4(2) , 1-18.

Khanna, A. B. & Narula, S.A. (2016): Mobile Health Units: Mobilizing healthcare to reach unreachable, *International Journal of Healthcare Management*, 1-9.

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Narula, S.A. & Upadhyay, K.M. (2011) Product and Market Strategy Dilemma: Are Strategies of Pesticide manufacturers Green? *Social Responsibility Journal*, Vol.7, No.2, 282- 294.

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Narula, S.A. & Chopra, S. (2010) Identifying Stakeholders' Needs and Constraints Adoption of ICT Services in Rural Areas: The Case of India, *Social Responsibility Journal*, Vol.6, No.2, 222-236.

Narula, S.A.; Sikka, B.K.& Singh S. (2005): on Strategic Planning Framework for Hortibusiness in Uttaranchal: The TOWS Matrix Approach presented in Annual Conference of Indian Society of Agricultural marketing, Pantnagar, *Indian Journal of Agricultural Marketing*, Vol 19, No.2, Conference Spl., May-August,2005, pp 229-237 ISSN: 0971-8664.

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Bose M. (2018): Development, Globalization and Its Impact on Health Status: A Study from Developing Countries Perspective, *International Journal of Healthcare Sciences*, Vol.5(2). pp. 366-73. ISSN: 2348-5728.

Mahajan R. and Bose M. (2018): Business Sustainability: Exploring the Meaning and Significance, *IMI Konnect*, Vol. 7(2), pp. 8-14. ISSN: 2321-9378.

Bose M. and Dutta A. (2015): Inequity in Hospitalization Care: A Study on Utilization of Healthcare Services in West Bengal, India, *International Journal of Health Policy and Management*, Vol. 4(1), pp. 29-38.

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Mahajan, R., Agrawal, R., Sharma, V. and Nangia, V.K. (2014): Factors affecting Quality of Management Education in India: An Interpretive Structural Modelling Approach, *International Journal of Educational Management*, Vol. 28 No. 4, pp. 379-399.

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Nangia, V.K., Sharma, V., and Mahajan, R. (2012): Postgraduate Management Education in India- A Researcher's Perspective, *Indore Management Journal* (ISSN No: 0975-1653), Special Issue, pp. 309-326. Mahajan, R., Nangia, V.K. and Sharma, V. (2014), "Management Education: Is it only for Business, *Asian Management Review*, 9(3), 52-57.

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Datta M. Factors Affecting the Borrowing Decisions of Indian Corporates: How Far They Differ from the Global Trend? —An Empirical Study, *Indian Accounting Review*. Vol.11, no.2.

Chapters in Books:

Narula S.A., Magray M.A. (2017) Ensuring Sustainable Production and Consumption Patterns 13 Adoption of Voluntary standards in Global Agri supply Chains: Way Forward in light of SDGs. (Edited by Syed Munir Khasru), *Towards Sustainable Development: Lessons from MGDs & Pathways for SDGs*.1st ed. Vol 1. Dhaka: IPAG, The institute for Policy, Advocacy and Governance, 397-403.

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Thakur, A., Zutshi, A & Narula, S.A. (2015): *Integrating and Implementing CSR: A Case of Concor in India in CSR in Developing countries: Towards a Development Oriented Approach* (Eds. Dima Jamali, Charlotte Karam& Michael Blowfield), Greenleaf Publishing

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Issues and Future Directions, 83-97 (Eds. Bhat, R. & Gomez-Lopez, V.M.), Wiley Blackwell, ISBN 978-1-118-47460

Vipan, Kumar, Sapna A Narula, Naresh Kumar (2013): Computational GIS Based Mapping of some Indicators of primary education in India, Book Chapter in 'India Science and Technology, Vol 2, Published by Cambridge University Press, ISBN 9789382264743.

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Narula, S.A., Kataria, A. & Arora, P. (2009): Customer Knowledge and Awareness towards Insurance Products in Rural Areas of Indore District in Conf. Proceedings of 2nd Conference on Marketing to Rural Customers, IIMK publication.

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Narula S.A. & Upadhyay K.M (2008): Product and Market Strategy Dilemma: How Firms in Pesticide Industry Shall Win the Race in Handbook on Management cases, eds. B.S. Sahay, Tojo Thatcherkey, G.D. Sardana; Allied Publishers, New Delhi, pp.360-375. ISBN:81-8424- 390-1.

Narula S.A., Upadhyay K.M., Sikka, B.K. (2008): Green Product Portfolio for Indian Pesticide Companies: An Analysis based on Market Attractiveness vs. Environmental Attractiveness International Conference on Green Marketing held at IMT, Ghaziabad September 26, 2008; In Green Marketing, (Eds Chakraborty & Rao), pp. 404-414 ISBN:81- 84-24-355-3.

Narula S. A., (2008): Leveraging ICT to Link Farmers to Markets: A Case of Indian E- Business Models Paper presented in International Conference on Technology and Innovation in Marketing held at IMT, Ghaziabad during 18-19 April, 2008; published in Technology and Innovation in Marketing, ed. By Rajat Gera, Allied Publishers, New Delhi, pp.49-58; ISBN: 81-84-24-308-1.

Sikka B.K, Narula S.A. & Suri P.K. (2008): Linking Farmers to Markets: A Case of Indian Fresh Produce Supply Chains Paper presented at Annual Conference on Global Institute of Flexible Systems Management (GLOGIFT 2008) held at Steven Institute of Technology, New Jersey, USA; published in Flexible Enterprise for Global Business, (eds. Edward Stohr & Susheel ISBN:978-81-906294-1-6.

Sharma, Nikhil & Narula, S.A. (2008): Design and Implementation of Communication Strategy in Rural Markets: A Case of Tata Shaktee GC Sheet Brand Paper presented at Conference on Marketing to Rural Consumers-Understanding and Tapping the Rural Market Potential held at IIM, Kozhikode, April 3-5, 2008., published in Conference Proceedings Marketing to Rural Consumers, IIMK publication.

B.K. Sikka, Narula, S.A., (2006): Global Competitiveness of Organic Produce: Opportunities, Challenges and Strategies Paper presented at Annual Conference on Global Institute of Flexible Systems Management (GLOGIFT 2006), Asian Institute of Technology, Bangkok, Thailand: In Management of Innovation, Technology, Transfer & Flexibility for Competitiveness in Globalized World(Eds. Himangshu Pal, Nazrul Islam, Manoj Kr. Sharma) ISBN:81-903397-6-1.

Bose M. (2016): Access to In-Patient Healthcare in West Bengal: A Benefit Incidence Analysis, Population, Health & Environment, Eds. Unisa S. et.al., Rawat Publications,

Bose M. (2014): Pattern of Morbidity and Access to Health Care in West Bengal (PhD thesis), online:http://gnhe.funsalud.org.mx/Documentos/Thesis_Montu%20Bose.pdf.

Bhattacharya, J., Banerjee S., and Bose M. (2013): On Assessment of Women Empowerment at Individual level: An Analytical Exposition, Development and Sustainability: India in a Global Perspective, Edited by Prof. Sarmila Banerjee and Prof. Anjan Chakrabarty, Springer.

Articles in Magazines:

Bandhyopadhyay, K.R. and Mahajan, R. (2017): Faculty Experiences with Teaching Sustainability in Management Education: A Study of Select Management Institutions in India, Sustainability in Management Education: In Search of a Multidisciplinary, Innovative and Integrated Approach through University Leadership, Scholarship and Partnerships, New Hampshire: Edward Elgar Publications

Newspaper Articles:

Narula, S. A. (2019): Demand for Sustainability Managers on the rise, India Today, April 3, 2019.

Narula, S.A. (2019): With focus on Synergy, The Tribune, Oct 10, 2018.

Narula, S. A. (2018): Creating better facilities, The Tribune, Sept 19, 2018.

Narula, S.A. (2010): Plugging Information gaps through ICTs: A Study on Prioritization of Information Related Needs of Farmers, I4D, Jan-March, 25-29.

Narula, S.A. & Nainwal N. (2010): ICTs and Agricultural Supply Chains: Opportunities for Successful Implementation, Information Technology in Developing Countries, Vol.20, No.1, 24-29.

Narula, S.A. (2009) ICT enabled Food Supply Chains, I4D (July-September 2009), Vol. VII, No.7, pp 29-31.

Narula, S.A. (2009): Social networking for Farmers, I4D, Feb 2009, pp32-34.

Narula, S.A., Sharma, N. (2008): Implementing ICTs in Agribusiness, I4D, September, 20-22 ISSN: 0972-804X.

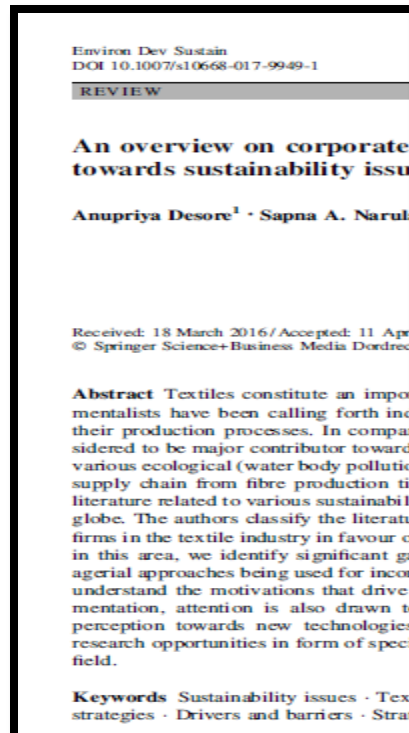
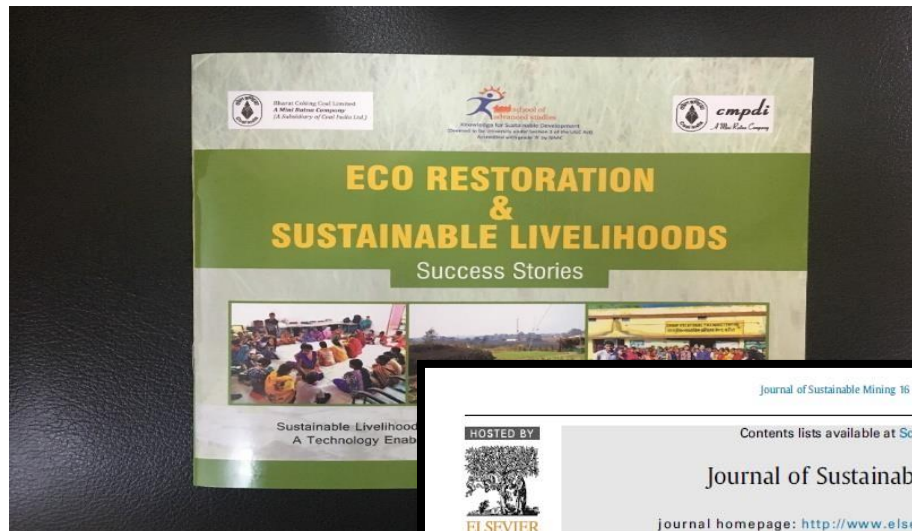
Narula, S. A.: Special issue on Water Resource Management (2012) in Resources, energy and Development, TERI Press, India

Narula, S.A.: Special issue on Agriculture and Food Security (2013) in Resources, Energy and Development, TERI Press, India

Policy Document:

Bose M., I Mukhopadhyay, G. Vaidyanathan, et al. (2017): State Health Accounts, Tamil Nadu: 2013-14; Publisher: Public Health Foundation of India, New Delhi.

Selected Publications



Events (Campus to Corporate)

Campus to Corporate is a lecture series organised by the Department of Business and Sustainability, TERI SAS with the aim of complementing classroom study with industry practices. The platform allows our students to discuss various aspects of business sustainability from challenges and opportunities with domain stalwarts, while enabling the speakers to identify partnership opportunities with TERI SAS. The series has successfully hosted speakers from organisations like Maruti Udyog Ltd., Indian Oil, HCL, Godrej, UNGC, Sonalika Group, Finovation, IHS Markit, MoEFCC, KPMG, E & Y etc.



TERI school of advanced studies
Accredited by NAAC

Transparency and accountability

- Accountability frameworks that meet expectations of diverse stakeholder groups;
- UNGCs - a logical starting point for business accountability assessment;
- Government role in establishing reporting baseline;
- Availability of timely, comparable and open data on companies' SDG performance;

Campus2Corporate (C2C)

Topic: Responsible Banking

Speaker

Namit Agarwal
Lead Specialist - Private Sector Engagement,
Oxfam India

The students of TERI School of Advanced Studies got an opportunity to gain more insights in big data and understand the challenges of high dimensional time series data. The session also focussed on clustering in the context of high dimensional data. The session ended with a discussion of strategies of handling noisy data taking the example of medical EEG analysis.

UNIVERSITY LECTURE SERIES



Dr. Subhajit Chakrabarty from
University of Massachusetts Lowell

Taking lecture on

**Challenges of high-dimensional
time series data**

Mr. Bibhuti Pradhan, GM (CSR), Indian Oil for Campus2Corporate session at TERI SAS who shared his insights into business sustainability and alternative balance sheet.

CAMPUS2CORPORATE (C2C)

— AN INDUSTRY INTERACTIVE SESSION —



“ The future of businesses lie in reforming accounting principles for accommodating environmental impact which will result in sustainable profits. ”

Mr. Bibhuti Pradhan
GM - CSR, IOCL

Mr. Harjinder Singh, a CXO level executive and expert from the Oil & Gas Industry, was the first speaker of the initiative. He delivered a very practical session on Social Profiling to a group of enthusiastic management students.

CAMPUS2CORPORATE (C2C)

— AN INDUSTRY INTERACTIVE SESSION —







The Future of the Corporate World will be in the hands of Leaders who can make sustainable Decisions. At the Department of Business and Sustainability, we prepare such Leaders through our MBA Business Sustainability Program.

TERI SAS team led by Amitav Mandal and Samarth Arora stood runner-up for 2nd Sustainability Quiz organised by UN Global Compact. Congratulations to the winners!

Students of MBA Business Sustainability - Class of 2019 and 2020, from the Entrepreneurship development cell, conducted a three-day ‘Sustainability Entrepreneurship and Innovation Lab’ at Climate Jamboree with sessions on real start-up stories, boot camp on accelerators, incubators and co-working spaces, social entrepreneurship, and Start-Up India delivered by eminent industry leaders and TERI SAS alumni.



Faculties Invited Talks

	<p>Dr Sapna A Narula, inaugurating faculty development programme on Research Methods on Data Analysis and Research at Jamia, Hamdard University</p>
	
	<p>Dr Sapna A Narula, delivering talk on Eco restoration and Sustainable livelihoods at RMIT, Melbourne</p>
	

Invited Presentations by Faculty

CSR: Reflection and the way forward, speaker in CSR Round table meet organised by Delhi Management Association, March 19, 2019

Panel discussion on Role of private sector in fighting climate change and water pollution & Driving Sustainable business practices, in Ecothon 2019, March 2, 2019

Aligning SDG goals with CSR in india Panel Discussion on Reimagining a Sustainable Future-The SDG Framework at 6th International PRME Conference, IILM, New Delhi

Business-Community Engagement: the case of a mining company in India keynote speech for session in Business Initiatives for Sustainable Development; The 8th PRME Asia Forum organised by UN Global Compact & SP Jain Institute for Management Research, Mumbai (Dec 13-14, 2018)

CSR and Sustainable Livelihoods: The Case of BCCL, Centre for Sustainable and Responsible Organisations, Deakin University, Burwood, Melbourne (March 2018)

CSR and Sustainable Livelihoods: The Case of Bharat Coking Coal Ltd at School of Accounting, Law & Policy, RMIT, Melbourne, Australia (April 2018)

Panelist in Session on Management Education at the 3rd India and Sustainability Standards: International Dialogues and Conference 2016 from 16-18 November 2016 at India Habitat Centre (IHC), New Delhi organized by CRB.

Invited to the Thematic symposium and Dialogue on Emerging paradigms of Corporate Social Responsibility, Regulation and Governance on 14-15 November, 2016 at IIM Lucknow, Nodia Campus .

Key note speaker on the topic ‘*Climate change and its impact on Agriculture: How can ICTs help?*’ in the International Conference on Environment and Agriculture in the UN Sustainable Development Goals from 17th to 19th December, 2016 at Bhopal, Madhya Pradesh, India
Sustainability in Oil and Gas Sector in Seminar on Sustainability and Sustainable Development organised by Petrotech Association and ONGC, July 2, 2013, Delhi

Innovations in m-agriculture: lessons from India at Global ICT Forum 2013 by Commonwealth Telecommunications Organisation, New Delhi, May 5, 2013.

Greening Supply Chains: Opportunities and Challenges for Indian Businesses in Symposium on Enterprise Redesign and Renewal for Sustainable Operations, Department of Management Studies, IIT Delhi, December 23, 2012

Agricultural Value Chain Development through Mobile based Information Delivery System in India in special session on *ICTs for Reaching the Stakeholder* as part of International Conference on Statistics and Informatics in Agriculture Indian Agricultural Statistics in Agriculture, New Delhi. (December 20, 2012)

Sustainable Development in India: Challenges and Opportunities in workshop on *New Product opportunities for Sustainable Development* held at Amrita University, Coimbatore

(December 2012)

Impacts of Climate Change on Agriculture: Case Studies from Assam and Maharashtra ICTs for Rural Development in Rural Marketing Summit on “Rural India in the New Millennium” on 23-24 February, 2012. Organized by Asia-Pacific Institute of Management

Climate Change with Special Reference to Agriculture for officers of NCDC in National Co-operative Development Corporation (Dec 1 2011)

Mitigating the Impact – Measures, Possibilities and Policy Aspects for officers of National Co-operative Development Corporation (Dec 1, 2011)

Research in Management Studies-A pathway for knowledge creation Faculty Development Programme on Research for management and Policy making

Climate Change and Indian Agriculture: What ICTs can deliver? eWorldForum 2011, The Ashok, New Delhi, August 1, 2011

Role of ICTs in Agriculture and Food Security at Prosper.NET Young Scientist Award Symposium organized by United Nations University at University of Phillipines, Manila, July 13,2011

Panel Discussion on e-Agriculture: Policies and Practices organized by FAO, Rome and UNESCO Chair in ICT for Development, Royal Holloway, University of London at ICTD2010 at London, 16-19 December, 2010

Empowering Farmers through m-agriculture at eIndia 2010, Hyderabad International Convention Centre, Hyderabad, August 5, 2010

Strategic Management in Pesticide Industry: Case Study of Selected Firms, Fourth International Conference on Managing in the New World Order: Strategies for Sustainable Business Development, Prestige Institute of Management Research, Indore , Jan30-31,2010

Green Supply Chain Management, presented at 2nd Supply Chain Seminar, India International Logistics Forum& Tata Diesl held at Mumbai, December 19, 2009

Empowering Farmers through ICT enabled Agricultural Supply Chains in Uttarakhand, presented at Fourth Uttarakhand Science & Technology Congress held at G. B. Pant University of
17

Agriculture & Technology, Pantnagar. November 11-12, 2009

Usage and Potential of ICT among Farmers: The Missing Link, Key Note Presentation, eIndia 2009 (India's largest ICT Event): eAgriculture, Hyderabad International Convention Centre, Hyderabad, August 25-27,2009

ICT and Agribusiness: A Suggestive Model based on Mckinsey 7S Framework paper presented in International Forum eIndia, 2008 held at New Delhi, 2008.

Awards/ Honors (Faculty)

Dr. Sapna A. Narula

Prosper.Net Scopus Young Scientist Award (ICTs and Sustainable Development) organized by United Nations University, German Federal Ministry of Education and Elsevier Publications (2011) (Runner-up) 8

Young Scientist Award, Uttarakhand Council of Science & Technology, Govt. of Uttarakhand (2009) (under the discipline Science and Society including science popularization for Work on Empowering Farmers through ICT enabled Supply Chains in Uttarakhand)

Award for **Best Research Publication** (2017), TERI School of Advanced Studies

Scholarship for participation in Panel Discussion on e-Agriculture: Policies and Practices

Organized by FAO, Rome and UNESCO Chair in ICT for Development, Royal Holloway, University of London at ICTD2010 at London, 16-19 December 2010

Best Lecture Award, AICTE sponsored Faculty Development Programme on Advances in Marketing, Jaipuria Institute of Management (2009)

Best Group Discussion Award, AICTE sponsored Faculty Development Programme on Advances in Marketing, Jaipuria Institute of Management (2009)

University Topper in master's degree M.Sc. (Gold Medalist) (1996)

Best Student Award in Miranda House, University of Delhi (1994)

Dr. Ritika Mahajan

Awarded Nancy Raina Best Research Paper Award by Integrating Spirituality and Organizational Leadership (ISOL) Foundation at the India International Centre, New Delhi in 2017

Awarded Neal Doerr Gold Medal for Best Research Paper by the Sugar Technologists' Association of India at the 71st Annual Convention & Sugar Expo, Hyderabad in 2012 .

Awarded Junior Research Fellowship by University Grants Commission in June 2010

Awarded Gold Medal for securing the highest marks in MBA in 2010

Awarded Gold Medal for securing the highest marks in BBA (Hons.) in 2008

Prof. Manipadma Datta

Best author award by ICSI for the paper published in the Chartered Secretary: 'Principles of Responsible'

Investments and Environmental, Social and Governance issues: The Emerging Horizon of Sustainability-based Decision-making in Finance

Appointed Adviser to ASSOCIATION OF BUSINESS CHAMBERS OF COMMERCE AND INDUSTRY.

Dr. Montu Bose

Global Network for Health Equity Fellowship, 2013-14.

University Grants Commission - NET, 2013.

Project Fellowship at the Department of Economics, University of Calcutta, 2009-2012 (UGC-DRS I Special Assistance programme).

Student's Activities

One of our students participated in LinkedIn's 'Get A Job' contest. The reality show aims to provide a platform for young talent to gain exposure from top corporates.



The Entrepreneurship Development Cell, managed by the students of TERI organizes regular events to promote and foster an environment of innovation and entrepreneurship. The club, led by core team of MBA students organized 'Junkyard' for the freshers during the orientation week.

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*Congratulations
to the winners!*

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2nd **SUSTAINABILITY QUIZ**
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पर्यावरण संरक्षण व स्थानीय लोगों के उत्थान को प्रयासरत रहें : डीपी

■ टेरी विवि, बीसीसीएल व सीएमपीडीआई ने किया प्रशिक्षण कार्यक्रम का आयोजन

संवाददाता > धनबाद

टेरी विश्वविद्यालय, बीसीसीएल व सीएमपीडीआई (रांची) के संयुक्त आयोजन में मानव संसाधन विभाग, पर्यावरण मंत्रालय में प्रोत्साहकों के लिए कोयला खनन क्षेत्रों में पारिस्थितिकी की पुनर्स्थापना और आजीविका संवर्धन विषय पर प्रशिक्षण कार्यक्रम का आयोजन किया गया। यह सात जून तक चलेगा। उद्घाटन बीसीसीएल के निदेशक (कार्मिक) विनय कुमार पंडा, निदेशक तकनीकी (योजना व परियोजना) देवल गंगोपाध्याय ने दीप प्रज्वलित कर किया। मौके पर निदेशक (कार्मिक) विनय कुमार पंडा ने कहा कि हमें पूर्ण उत्साह के साथ पर्यावरण संरक्षण एवं स्थानीय लोगों के उत्थान की दृष्टि में प्रयासरत रहना चाहिए। निदेशक तकनीकी (योजना व परियोजना) देवल गंगोपाध्याय ने स्थानीय लोगों को स्वरोजगार के लिए निरंतर अवसर प्रदान करने की बात कही। जिसके लिए



प्रशिक्षण कार्यक्रम में उपस्थित अधिकारी

फोटो : प्रभात खबर

प्रशिक्षण होना आवश्यक बताया। मौके पर टेरी विश्वविद्यालय के डॉ एस चटर्जी ने मुराईडीह परियोजना के अंतर्गत इको-रेस्टोरेशन में हो रहे कार्यों की जानकारी दी। उन्होंने बताया कि उत्क्रमित हुई भूमि पर उन्होंने कृषि के सफल परीक्षण किए हैं और साथ ही जैव विविधता की जानकारी दी। प्रशिक्षण कार्यक्रम में टेरी विवि के प्रशिक्षक डॉ एसए नरूला, जो परियोजना के आजीविका घटक की संचालन भी कर रही हैं, ने बताया कि इस योजना के अंतर्गत अभी तक वीटीसी बरोरा में लगभग 270 प्रतिभागियों को मशरूम खेती, बकरी पालन, मुर्गी पालन, मत्स्य पालन, एकीकृत खेती, कंप्यूटर साक्षरता कार्यक्रम और मवेशी खेती पर विभिन्न

प्रशिक्षण कार्यक्रमों के दौरान प्रशिक्षित किया है और उनमें से कई ने वित्त सहायता हासिल करने के लिए कदम उठाने शुरू कर दिये हैं।

ये थे उपस्थित : मौके पर महाप्रबंधक (मानव संसाधन) विकास कुमार, उप महाप्रबंधक (पर्यावरण) मोदी, वरीय प्रबंधक (पर्यावरण) कुमार, सहायक प्रबंधक (पर्यावरण) हरीश पाल व मुख्यालय तथा क्षेत्र के अधिकारियों व कर्मचारियों की बड़ी संख्या में भाग लिया। कार्यक्रम को सफल बनाने में टेरी विवि से सोम मंडल, सहायक प्राध्यापक अहमद व अनुश्री पोद्दार व पर्यावरण विभाग के अधिकारियों व कर्मचारियों की सराहनीय भूमिका रही।

मछली पालन करेंगी हरिणा की महिलाएं, लिखेंगी स्वरोजगार की नई इबारत

कमलिया तालाब में मछली पालन कर स्वरोजगार से जुड़ेंगी महिलाएं-उपायुक्त ने तालाब के जीर्णोद्धार का दिया निर्देश

पि. कुमार शर्मा | वाछमरा

वाछमरा प्रखंड के हरिणा पंचायत की महिलाएं नई गद्य लिखने की तैयारी कर रही हैं। महिलाएं स्वरोजगार का प्रशिक्षण प्राप्त कर अब अपने पैरों पर खड़ा होने का काम करेंगी। कल तक जो इन महिलाओं को अक्ला समझ कर धर की चहारदीवारी में कैद करने का काम करते थे। आज वहीं लोग महिलाओं के जन्मे को देख उनका उत्साह बढ़ा रहे हैं। महिलाओं को आत्मनिर्भर बनाने में टैरी विश्वविद्यालय दिल्ली की प्रो. डॉ. सपना नरला का अहम योगदान है। उन्होंने के अथक प्रयास से महिलाओं को स्वरोजगार के लिए प्रशिक्षित किया गया। जिसका कारण है कि हरिणा में स्थित कमलिया तालाब को मछली पालन कार्य के लिए चिह्नित किया गया। जल्द ही तालाब का जीर्णोद्धार कर महिलाओं को स्वरोजगार से जोड़ने का काम प्रारंभ किया जाएगा। क्षेत्र में इस तरह की पहली बार



वाछमरा में मछली पालन के लिए तालाब का निरीक्षण करते वीडियो

स्वरोजगार से जुड़ने वाली महिलाओं में काफी उत्साह देखा जा रहा है। कौशल विकास योजना की धीम पर होगा काम

महिलाओं को आत्मनिर्भर बनाने की जिम्मा उठाए टैरी विश्वविद्यालय की प्रो. डॉ. सपना

नरला ने जानकारी देते हुए कहा कि केंद्र सरकार द्वारा संचालित कौशल विकास योजना की धीम पर टैरी विवि, बीसीसीएल तथा सीएमबीडीआई रांची द्वारा कौशल क्षेत्र के प्रभावित लोगों को जगह कर प्रशिक्षण के माध्यम से उन्हें स्वरोजगार से

जोड़ा जाना है। उन्होंने बताया कि पिछले दिनों मुआईडीह कौशल क्षेत्र के पीटीसी सेंटर में प्रशिक्षण आयोजित कर परियोजना से प्रभावित क्षेत्रों के 270 लोगों को प्रशिक्षित करने का काम किया गया है। जिसमें पुरुषों से ज्यादा महिलाओं का रहान था। इस दौरान प्रशिक्षणार्थियों को मत्स्य पालन, मुर्गी पालन, मशरूम उत्पादन, बकरी पालन, एकीकृत खेती सहित अन्य आवश्यक पहलुओं पर प्रशिक्षण देकर उन लोगों को स्वरोजगार से जोड़ने में सहयोग करने का काम किया गया। इस बारे में उपायुक्त से बात करने के बाद उपायुक्त ने तालाब का निरीक्षण करवाना और इसे मछली पालन के उपयुक्त पना।

पूर्व मुखिया की अगुवाई में जुड़ता गया कारवा

टैरी विश्वविद्यालय दिल्ली, बीसीसीएल तथा सीएमबीडीआई द्वारा परियोजना से प्रभावित क्षेत्रों में रहने वाले ग्रामीणों को आत्मनिर्भर बनाने के उद्देश्य से जब मुआईडीह पीटीसी सेंटर में प्रशिक्षण प्रारंभ किया गया था। उस समय बहुत ही कम लोग उपस्थित हुए। इसके बाद हरिण पंचायत की पूर्व मुखिया रीकु देवी ने प्रशिक्षण कार्यक्रम से प्रभावित होकर पंचायत की महिलाओं को जगह कर देने का काम किया। उन्होंने उपायुक्त को सल्लाह देते हुए कहा कि केवल एक बार कमलिया तालाब का जीर्णोद्धार करने की बात कही गई और उपायुक्त ने उसे गंभीरता पूर्वक लेते हुए वाछमरा वीडियो को तत्काल तत्त्व का निरीक्षण कर अविलंब काम शुरू करने का निर्देश दे दिया। उन्होंने कहा कि महिलाओं को मछली पालन से लेकर वज्र तक मछली पालने के कार्य में विवि द्वारा हर संभव मदद किया जाएगा।

उपायुक्त के निर्देश पर कमलिया तालाब का निरीक्षण किया गया है। जीर्णोद्धार से संबंधित कइल तैयार कर संबंधित विभाग को भेजने की प्रक्रिया प्रारंभ कर दी गई है। उस तालाब का जीर्णोद्धार भूमि संरक्षण विभाग द्वारा करवा जाएगा।
गिरिजानंद किशोर, कैंडिड वाछमरा

मुराईडीह में तीन दिवसीय प्रशिक्षण शिविर का उद्घाटन

डीवै स्टार, बाराबात

वीसीपीएल सीएमपीडीआई तथा टेरी बरुविद्यालय दिल्ली के संयुक्त तत्वावधान में मुराईडीह कोलियरी कार्यालय स्थित वीटीसी सेंटर में बुधवार से तीन दिवसीय प्रशिक्षण शिविर का आयोजन किया गया। उद्घाटन समारोह को संबोधित करते हुए विवि की प्रो. डॉ. सपना नरला ने कहा कि परियोजना से प्रभावित लोगों को आत्मनिर्भर बनाना ही प्रशिक्षण का मुख्य उद्देश्य है। प्रशिक्षण शिविर के छठे चरण में लोगों को मिलाई जा रहा है। प्रशिक्षण देकर उन्हें तथा कंप्यूटर का प्रशिक्षण देकर स्वरोजगार से जोड़ने का काम किया



प्रशिक्षण शिविर को संबोधित करती हैं करुला।

जाएगा। उन्होंने कहा कि इस प्रशिक्षण सामग्री तैयार किए जाएंगे उसे दिल्ली के दौरान प्रशिक्षणार्थियों द्वारा जो भी के बाजारों में बेचकर लोगों को मुनाफा

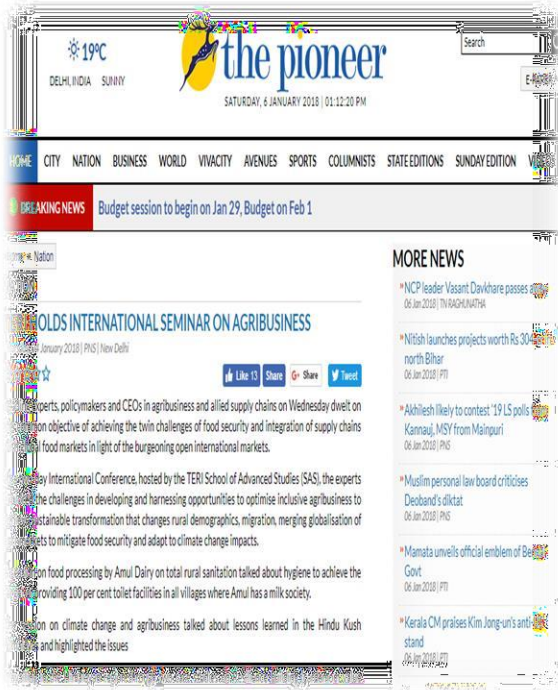
दिलाने का काम किया जाएगा। इससे पूर्व संपन्न पांच चरणों में आयोजित प्रशिक्षण को प्राप्त कर स्वरोजगार से जुड़े संतोष खानी, जगू खानी आदि की तारीफ करते हुए प्रशिक्षणार्थियों को रोल मॉडल मानते हुए ईमानदारी पूर्वक प्रशिक्षण प्राप्त करने की बात कही गई। डॉ. सपना ने जानकारी दिया कि कंप्यूटर प्रशिक्षण के लिए विवि द्वारा छह कंप्यूटर सेट प्रदान किया गया है। विवि तथा ऑस्ट्रेलियाई छात्रों द्वारा लिया जा रहा इंपैक्ट विवि द्वारा मुराईडीह कोलियरी परियोजना से प्रभावित ग्रामीणों को प्रशिक्षित किए जाने के बाद प्रशिक्षण प्राप्त करने वाले क्या कर रहे हैं। स्वरोजगार से जुड़े हैं या किसी प्रकार की परेशानी हो रही है। उसका इंपैक्ट लेने के लिए विवि से आए छात्र मुनीर अहमद, देवेन्द्र, आलोक, अभिनव, रश्मिता आरुण, स्वर्णिल तथा यूनिवर्सिटी ऑफ ग्रेड्स ऑस्ट्रेलियन छात्र मैक्स रसेला व यास्मीन प्रशिक्षण प्राप्त लोगों से जानकारी हासिल कर रहे हैं। साथ ही इन छात्र-छात्राओं द्वारा ग्रामीणों को स्वरोजगार से जुड़ने में उत्पन्न होने वाली परेशानियों को दूर करने का भी टिप्प दिया जा रहा है। छात्र छात्राओं ने बताया कि मुराईडीह में आयोजित प्रशिक्षण शिविर तथा यहां की कोलियरी क्षेत्रों में आने से अलावा अनुभव मिल रहा है।

मुराईडीह में कौशल विकास योजना के तहत प्रशिक्षण शुरू



प्रशिक्षण प्राप्त कर रही महिलाओं के साथ प्रोफेसर नरुला।

बाघमारा. कोयला मंत्रालय भारत सरकार पोषित परियोजना तथा टेरी विश्वविद्यालय दिल्ली के संयुक्त तत्वावधान में मुराईडीह कोलियरी कार्यालय स्थित वीटीसी सेंटर में शुक्रवार से तीन दिवसीय प्रशिक्षण शिविर का आयोजन किया गया। जानकारी देते हुए विवि की एसोसिएट प्रोफेसर डॉ सपना नरुला ने बताया कि प्रशिक्षण के पहले दिन कौशल विकास योजना के तहत आसपास क्षेत्र के 180 ग्रामीणों को मशरूम की खेती तथा एकीकृत कृषि प्रणाली का प्रशिक्षण दिया जा रहा है। उन्होंने कहा कि ओपन कास्ट माइंस के अंतर्गत ग्रामीणों को प्रशिक्षित कर स्वरोजगार से जोड़कर आत्मनिर्भर बनाने का काम किया जा रहा है।



Way Forward

- Strengthening MDPs/ FDPs (Pioneers in Education for Sustainable Development)
- Attracting future sustainability leaders as prospects
- Global Outreach
- Taking Industry-academia interface to the next level (Business Consulting, fellowships, Academic Chairs)
- In-house case study development
- Attracting global recruiters
- Strengthening alumni linkages
- Establishing Centre for Excellence in Business Sustainability Research
- Encouraging Entrepreneurial Culture
- Encouraging learning into SDGs thinking through teaching and research
- Curriculum Revision