

FACULTY DEVELOPMENT PROGRAMME

on

INTEGRATING SUSTAINABILITY IN HIGHER EDUCATION

December 11 - 16, 2023

Detailed Report

One-Week Online Interdisciplinary Faculty Development Programme on "Integrating Sustainability in Higher Education" organized by the Department of Commerce and IQAC, Shyam Lal College, University of Delhi in collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre, Hansraj College, University of Delhi under the esteemed aegis of the Malaviya Mission Scheme by University Grant Commission from December 11th- 16th, 2023. Higher education institutions bear a profound responsibility in a world confronting urgent sustainability challenges such as climate change, resource depletion, and social disparities. They assume the pivotal role of agents in addressing these challenges by shaping the next generation of leaders and the workforce. However, faculty members must have comprehensive training and resources to disseminate and investigate sustainability adeptly.

The themes of the FDP are as follows:

- Sustainability - Introduction to the Concept and Models
- Emerging Sustainable Business Strategies – Circular Economy,
- Supply Chain Sustainability etc.
- Role of SDG Goals and Networking
- Sustainability and Communication
- Understanding ESG Framework for Higher Education
- Sustainability Reporting
- Social Impact Assessment and Outcome Measurement
- Sustainable Higher Education – Focus on the holistic development of Students.

The initiation of this Faculty Development Programme (FDP) coincided with the unveiling of the Vikshit Bharat@2047 portal by the Honorable Prime Minister, Shri Narendra Modi Ji, on the same date. The FDP witnessed active engagement from 60 participants hailing from various parts of the country. These participants enthusiastically shared, expressed, and explored their perspectives on sustainable development within the realm of higher education. Thirteen esteemed experts from diverse prestigious institutions delivered insightful talks, enriching the FDP sessions with their knowledge and experiences. The synchronicity of these events underscores the shared commitment towards advancing sustainable practices in education, aligning with the national vision for a developed India by 2047.



SLC (University of Delhi)
SHYAM LAL COLLEGE



University of Delhi
DEPARTMENT OF COMMERCE & IQAC

(Accredited by NAAC with 'A++' grade)

in collaboration with

MAHATMA HANSRAJ MALAVIYA MISSION
TEACHER TRAINING CENTRE

HANSRAJ COLLEGE

University of Delhi

(Accredited by NAAC with 'A++' grade)

under the aegis of

Malaviya Mission Scheme, UGC

is organizing a

One-Week (Online) Interdisciplinary
Faculty Development Programme

on

INTEGRATING SUSTAINABILITY IN
HIGHER EDUCATION

Registration Link:

<https://forms.gle/GnX8BnMa399zUBw6A>

December 11 - 16, 2023

Live Online Sessions (02:00 PM - 05:00 PM)

Last date for Registration:

December 5, 2023



Organizing Team

Prof. Ruchika Ramakrishnan
FDP Convenor, SLC

Ms. Sonia Mudel
FDP Coordinator, SLC

Padma Shri Dr. Punam Suri
Chairman, Governing Body, Hansraj College
Patron

Mr. Ashutosh Yadav
Coordinator, MHRFDC

Prof. Kusha Tiwari
IQAC Director, SLC

Dr. Manisha
Organizing Member, SLC

Ms. Deepshikha Yadav
Deputy Coordinator, MHRFDC

Prof. Rabi Narayan Kar
Principal, SLC

Ms. Priya Khanna
Organizing Member, SLC

Prof. (Dr.) Rama
Principal, Hansraj College
Chairperson, MHRFDC

Dr. Anurag Kakkar
Deputy Coordinator, MHRFDC



SLC (University of Delhi)
SHYAM LAL COLLEGE

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DEPARTMENT OF COMMERCE & IQAC



is organising a
One-Week (Online) Interdisciplinary FDP
(December 11 - December 16, 2023)

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MAHATMA HANSRAJ MALAVIYA MISSION TEACHER TRAINING CENTRE
HANSRAJ COLLEGE
University of Delhi

under the aegis of
Malaviya Mission Scheme, University Grants Commission



Prof. Prem Narayan Singh
Director, IUCTE, BHU



Prof. K. B. Das
VC, CUJ



Prof. Kavita Sharma
DOC, DSE, UoD



Prof. Rupam Kapoor
Dept. of Botany, UoD



Prof. Runa Sarkar
IIM Calcutta



Prof. Haneet Gandhi
Dean Admissions, UoD



Prof. Alok Saklani
SRHU, Dehradun



Prof. Rajeev Sijariya
Dean, ABVSME, JNU



Prof. Ashu Gupta
Dept. of Chem, SLC



Prof. P. M. Mohan
Pondicherry University



Dr. Radhika Gupta
Dept. of Chem, SLC



Dr. Neha Bhardwaj
FMS, UoD



Dr. Shweta Jha
Apeejay School of Management



Prof. Subhasis Ray
XIMB

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December 11 - 16, 2023

LIVE SESSIONS (02:00 PM - 05:00 PM)

Date	2:00 pm – 3:30 pm	3:30 pm – 5:00 pm
December 11, 2023	Prof. Prem Narayan Singh Director, IUCTE, BHU (Inaugural Address)	Prof. Ashu Gupta Dept. of Chem, SLC and Dr. Radhika Gupta Dept. of Chem, SLC
December 12, 2023	Prof. Runa Sarkar IIM Calcutta	Prof. Kavita Sharma Dept. of Commerce, DSE, University of Delhi
December 13, 2023	Prof. Haneet Gandhi Dean Admissions, University of Delhi	Prof. Subhasis Ray Xavier Institute of Management, Bhubaneswar
December 14, 2023	Prof. Rupam Kapoor Department of Botany, University of Delhi	Prof. P.M. Mohan Pondicherry University
December 15, 2023	Prof. Alok Saklani SRHU, Dehradun and Dr. Shweta Jha Apeejay School of Management	Prof. Rajeev Sijariya Dean, ABVSME, JNU
December 16, 2023	Dr. Neha Bhardwaj FMS, University of Delhi	Valedictory Session

Day 1 - December 11, 2023

Session 1 (02:00 pm to 03:30 pm) - Inaugural Programme on Integrating Sustainability in Higher Education

Resource Person - Prof. Prem Narayan Singh, Director, IUCTE, Banaras Hindu University

The chief guest of the inaugural of the FDP was Prof. Prem Narayan Singh, Director, IUCTE, BHU. Ms. Sonia Mudel welcomed the esteemed guests and participants in the inaugural session. Prof. Kusha Tiwari addressed the participants on how education helps in enhancing sustainable development. Prof. Prem Singh eloquently highlighted the pivotal role of academia in promoting sustainable practices. Emphasizing the need for a holistic approach, he underscored how integrating sustainability into the curriculum enhances students' critical thinking and equips them to navigate complex environmental and social issues. Prof. Singh emphasized ancient India's contribution to sustainable development. Hindu and Buddhist philosophies emphasized the interconnectedness of all living beings and the need for harmony with nature. Concepts like "Ahimsa" (non-violence) and "Dharma" (righteousness) encouraged a balanced and sustainable way of life. Prof Singh discussed the same by citing many historical examples from Indian Literature.





Chat Messages

Search chat

Shikha khera 24:50
Assistant Professor
Delhi Technological University

Priyanka Yadav 25:25
Ms. Priyanka Yadav, Assistant Professor, Department of Commerce, Shyam Lal College (M), University of Delhi

pankajkumarchaudhary 27:09
Pankal Kumar Chaudharv SLC DU

Session 2 (03:30 pm to 05:00 pm) - Green Chemistry: An Imperative Course for HEIs for a Sustainable Future

Resource Persons - Prof Ashu Gupta, Professor, Department of Chemistry, SLC, and Dr. Radhika Gupta, Assistant Professor, Department of Chemistry, SLC

Professor Ashu Gupta initiated the session by underscoring the significance of chemistry in our daily lives, delving into critical issues arising from scientific advancements, such as the Bhopal gas tragedy. Prof. Gupta comprehensively elucidated the 12 principles of green chemistry, encompassing waste prevention, atom economy, and the design of safer chemicals, solvents, and auxiliaries, among others.

Dr. Radhika delved into the practical applications of green chemistry for Higher Education Institutions (HEIs) aiming for a sustainable future. She specifically discussed biodiesel concepts, detailing the process of producing biodiesel using readily available materials like regular oil. Dr. Radhika showcased laboratory experiments related to biodiesel and also explored the potential of magnetic nanoparticles in mitigating water pollution, presenting intriguing experiments involving the use of potatoes as magnetic nanoparticles.

The session concluded with a formal vote of thanks, acknowledging the active participation of attendees and addressing their queries. Participants expressed their enjoyment of the informative and engaging session.

Recording... You are viewing Prof. Ashu Gupta's screen View Options Sign in View

Importance of Chemistry in Everyday I

1. Good pharmaceutical drugs to cure various diseases such as cancer, malaria, etc.
2. Safe drinking water and sanitation
3. Safety considerations such as light-weight helmets, fire retardants, safety air bags, etc.
4. Herbicides and pesticides to ensure pest control and protect crops, and fertilizers to increase crop production
5. Improved transportation for energy efficiency and reduced emission, with a use of catalytic converters.

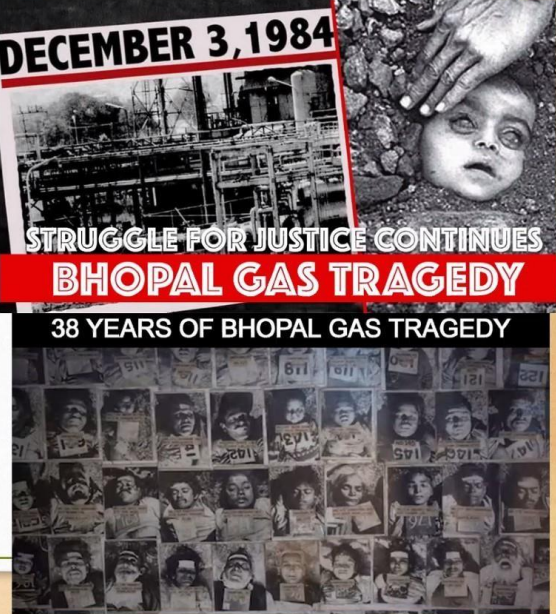
From Rashmi Kiran to Everyone
Dr. Rashmi Kiran, K.B. Women's College, B.N.M.U.

Unmute Start Video Participants 24 Q&A Chat 13 Share Screen Pause/Stop Recording Show Captions Raise Hand Apps Whiteboards Leave

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Industrial Disasters

Union Carbide Company, India, was synthesizing a pesticide named 'carbaryl' in Bhopal. A disaster known as Bhopal gas tragedy is considered to be one of the worst industrial disasters, which occurred on **2nd-3rd Dec 1984 due to a leak of methyl isocyanate (MIC).** ~ 4000 people lost their lives and 2,00,000 were seriously injured. Studies by ICMR showed that people died due to suffocation and also due to toxins that caused swelling in the brain, leading to disorientation and finally death. They found 21 chemicals in the body of dead, main being MIC.



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Ms. Sonia Mudel | Prof. Ashu Gupta | Dr. Radhika Gupta | Hansraj College

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6. Design for Energy Efficiency

Energy requirements should be recognized for their environmental and economic impacts and should be minimized. Synthetic methods should be conducted at ambient temperature and pressure.

6CO₂ + 6H₂O $\xrightarrow{\text{Photosynthesis}}$ C₆H₁₂O₆ + 6O₂

carbon dioxide water glucose oxygen

Ultrasonic irradiation in a liquid solution

Formation of the cavitation bubble

Growth of the bubble

5,000 K
1,000 bar

Extreme conditions released

physical effects at low frequencies (20-60 kHz) chemical effects at high frequencies (150-2,000 kHz)

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Participants (27)

Panelists (6) | Attendees (21)

- MS Ms. Sonia Mu... (Co-host, me) [mute] [video off]
- M Hansraj College (Host) [mute] [video off]
- PA Prof. Ashu Gupta [mute] [video on]
- MP Ms. Priya Khanna (Co-host) [mute] [video off]
- DM Dr. Manisha [mute] [video off]
- Dr. Radhika Gupta [mute] [video off]

Invite | Mute All | ...

Zoom Webinar | You are viewing Dr. Radhika Gupta's screen | View Options

Ms. Sonia Mudel | Dr. Radhika Gupta | Prof. Ashu Gupta | Hansraj College

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BIODIESEL

❖ Because of the serious environmental and health problems, attention is turning to the development of alternative fuel sources that are cleaner burning.

Thomas York, Butterworth | http://www.cartoon-warehouse.com

Chemists have created a substitute for diesel called as "BIODIESEL"

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Participants (27)

Panelists (6) | Attendees (21)

- MS Ms. Sonia Mu... (Co-host, me) [mute] [video off]
- M Hansraj College (Host) [mute] [video off]
- Dr. Radhika Gupta [mute] [video on]
- DM Dr. Manisha [mute] [video off]
- MP Ms. Priya Khanna [mute] [video off]
- PA Prof. Ashu Gupta [mute] [video off]

Invite | Mute All | ...

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Ms. Sonia Mudel | Prof. Ashu Gupta | Hansraj College

#IndiasGreenFuture

Impetus to Ethanol Blending in Petrol Program

Promoting Waste-to-Wealth
Aatmanirbhar Kisan
Aatmanirbhar Bharat

FUELLING THE GREEN ECONOMY

Jan, 2003: India allowed sale of 5% ethanol blended petrol in nine States and four UTs	8.5%: Current blending of ethanol with petrol	2025: New target to achieve 20 percent ethanol blending	\$4 bn: Expected annual savings on import bill due to 20 per cent blending
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- PM Modi to release report of Expert Committee on Roadmap for ethanol blending in India 2020-25.
- Pilot project for E100 dispensing from 3 locations at Pune launched.
- These initiatives will bring all stakeholders together and will act as a stepping stone in achieving the target of E20 by 2025-2026.
- Impetus to advanced biofuels, fillip to alternative low-carbon transport fuels, boost to distillation capacities, big boost to farmers' income & welfare.

Participants (27): Panelists (6), Attendees (21)

Ms. Sonia Mu... (Co-host, me) | Hansraj College (Host) | Dr. Radhika Gupta | Dr. Manisha | Ms. Priya Khanna | Prof. Ashu Gupta

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Ms. Sonia Mudel | Prof. Ashu Gupta | Hansraj College

Utilization of Green Chemistry Principles

- Less hazardous synthesis
- Use of renewable feedstocks
- Design for degradation
- Designing safer chemicals
- Design for energy efficiency
- Catalysis
- Use of benign solvents

Participants (26): Panelists (5), Attendees (21)

Ms. Sonia Mu... (Co-host, me) | Hansraj College (Host) | Dr. Radhika Gupta | Ms. Priya Khanna | Prof. Ashu Gupta

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Day 2 - December 12, 2023

Session 1 (02:00 pm to 03:30 pm) - Empowering the Future Guardians of the Galaxy: Lessons in Sustainability

Resource Person - Prof. Runa Sarkar, Indian Institute of Management, Calcutta

The session started with a brief introduction and welcome of the speaker Prof. Runa Sarkar by Ms. Priya Khanna. Prof. Runa Sarkar opened the discussion by outlining the significance of incorporating Sustainability into teacher training programs and the reasons why those who work in the field of knowledge transmission need to be adept at doing so. She also emphasized how a wide range of social issues that require attention arise as a result of economic disparity and stressed the necessity of integrating these topics into education and working toward solutions.

In keeping with COP28, Prof. Sarkar also spoke about Green Finance and Sustainable Finance. Other topics discussed by her include Forward Value Chain, Sustainable Development according to Brundtland Commission Report. She proposed co-creating knowledge as a means of integrating sustainability into education. There are two methods to do this: co- learning and learning by doing. Prof. Runa discussed that a Good Management Practice is one that helps a business to sustain in a manner which is reasonably profitable, that is, it is a Sustainable Management Practice. But, it's not the other way around. Not every Sustainable Management Practice is a good management practice.

In her closing remarks, Prof. Sarkar talked about the UNESCO toolkit for sustainability, which includes 15 goals to be met for each of the 17 Sustainable Development Goals. She proposed a method by which Higher Education Institutions (HEIs) may extract some, if not all, of the kit's objectives and attempt to accomplish them one at a time.

A formal vote of gratitude was held to finish the session, recognizing the attendees' active engagement and answering their questions. The interesting and educational workshop were well-received by the participants.

Recording... You are viewing Prof. Runa Sarkar's screen View Options Sign in View

Addressing the Conceptual and Pedagogical Challenges of Integrating Sustainability in Management Education


Runa Sarkar
Professor, Economics, IIM Calcutta

Ms. Priya Khanna
Ms. Priya Khanna
Prof. Runa Sarkar
Hansraj College
Dr. Manisha

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What does “integrating sustainability in Management Education” actually mean?



Conceptually...

- Is it about mainstreaming, *i.e.*, inserting/adding sustainability-related issues and topics to more “classical,” established Management Education?
- Is it about “changing course,” *i.e.*, questioning the ideology, assumptions, purpose, content, and process of Management Education in light of sustainability-related challenges?



On a pedagogical level, two approaches possible:

- “transmission absorption” of established knowledge areas
- co-construction of knowledge understanding through interactions between instructors and participants, with more emphasis on the delivery process than on content
- When does one use which approach?

Prof. Runa Sarkar

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Modes of integration

1. Discipline-based integration

- anchoring point is the business discipline
- sustainability added as a dimension of this body of knowledge

2. Strategic-/competitive-based integration

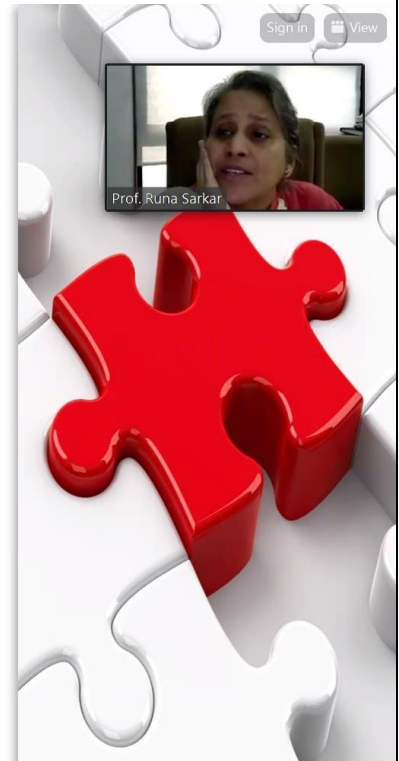
- anchoring point is strategy of the organization
- sustainability viewed as a potential contributor to firm's competitive advantage

3. Integration by application

- managerial tools and approaches from business disciplines applied
- tools address a sustainability challenge

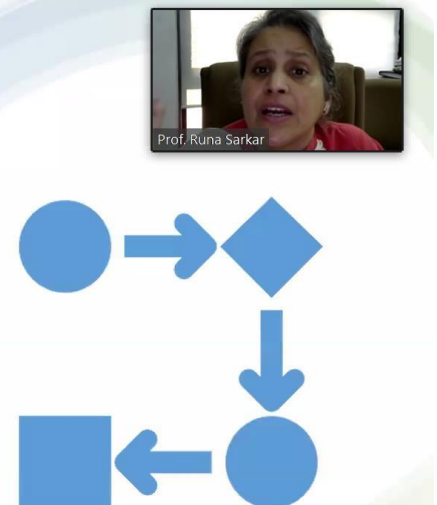
4. Systemic integration

- anchoring point is a social-ecological-economic challenge defined from an interdisciplinary perspective



Systemic Integration: An adaptive approach

- Neither discipline nor application nor strategic integration rely on an adaptive approach to integration: they promote the view that sustainability needs to be “added on” to existing curricula without questioning the epistemology or/and purpose of Management Education curriculum.
- The starting points of these three forms of integration are the curricula *per se*; as such these forms do not themselves contribute to questioning entrenched assumptions related to Management Education
- So, in the (not so) long run, one must redesign the curriculum with sustainability as an anchoring point
- This is a challenge given
 - the polymorphous meaning of sustainability making it a difficult anchor
 - Educators may struggle to prioritize sustainability topics to address in business curriculum
 - the role of Management Education in contributing to the idea of a sustainable world, as the concern that current late capitalist economic system is not ecologically sustainable and increases social, economic, and cultural inequalities is not irrefutable



Recording... You are viewing Prof. Runa Sarkar's screen View Options Sign in View

Stages of integration




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Finally...Assess suitability of curriculum using Competence mapping techniques

- Useful, both from the supply side and the demand side
- Excellent tool for employer engagement
- Could use UNESCO's toolkit that defined 15 Learning Objectives for each of the 17 SDGs classified into three levels:
 - 5 Cognitive learning objectives - knowledge and thinking tools to better understand a given SDG;
 - 5 Socio-emotional goals - social skills to collaborate, negotiate and communicate to promote the SDGs, and self-reflective values, attitudes and incentives
 - 5 Behavioral objectives that describe action skills
- Defined for higher education, in general

Groups 1&2
Independent classification of the 255 SDG-LOs (defined by UNESCO) to select the ones for BAM.
Sharing of the results.
Review and discussion of discrepancies and making of the final assignment.

Group 1
Matching between SDG-LOs for BAM (from the ones defined by UNESCO) with the existing SCM-LOs (developed in the EDINSOST framework).
When needed, rewriting or adding of LOs.

Group 2
Monitoring of the work done by Group 1.

Groups 1&2
Discussion and final drafting of the SCM for BAM.

EDINSOST2-SDG members
Discussion of the differences between the SCM for BAM, Engineering and Education.
Preparation of the final SCM for BAM with the agreed numbering.

Company representatives

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Zoom Webinar

Ms. Priya Khanna
Prof. Ruchika R...
Dr. Manisha

Recording...

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Integrating sustainability

- Developing Sustainability oriented Curricula and Research practices
- Moving from traditional to newer paradigms of Sustainability
- Role of Leadership and building institutional capacity
- Integrating students as catalysts for change
- Campus Operations to be integrated in Sustainability projects
- Developing Connectedness to Natural Environment, Society, and the Business World

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Session 2 (03:30 pm to 05:00 pm) - Driving Sustainability through Higher Education

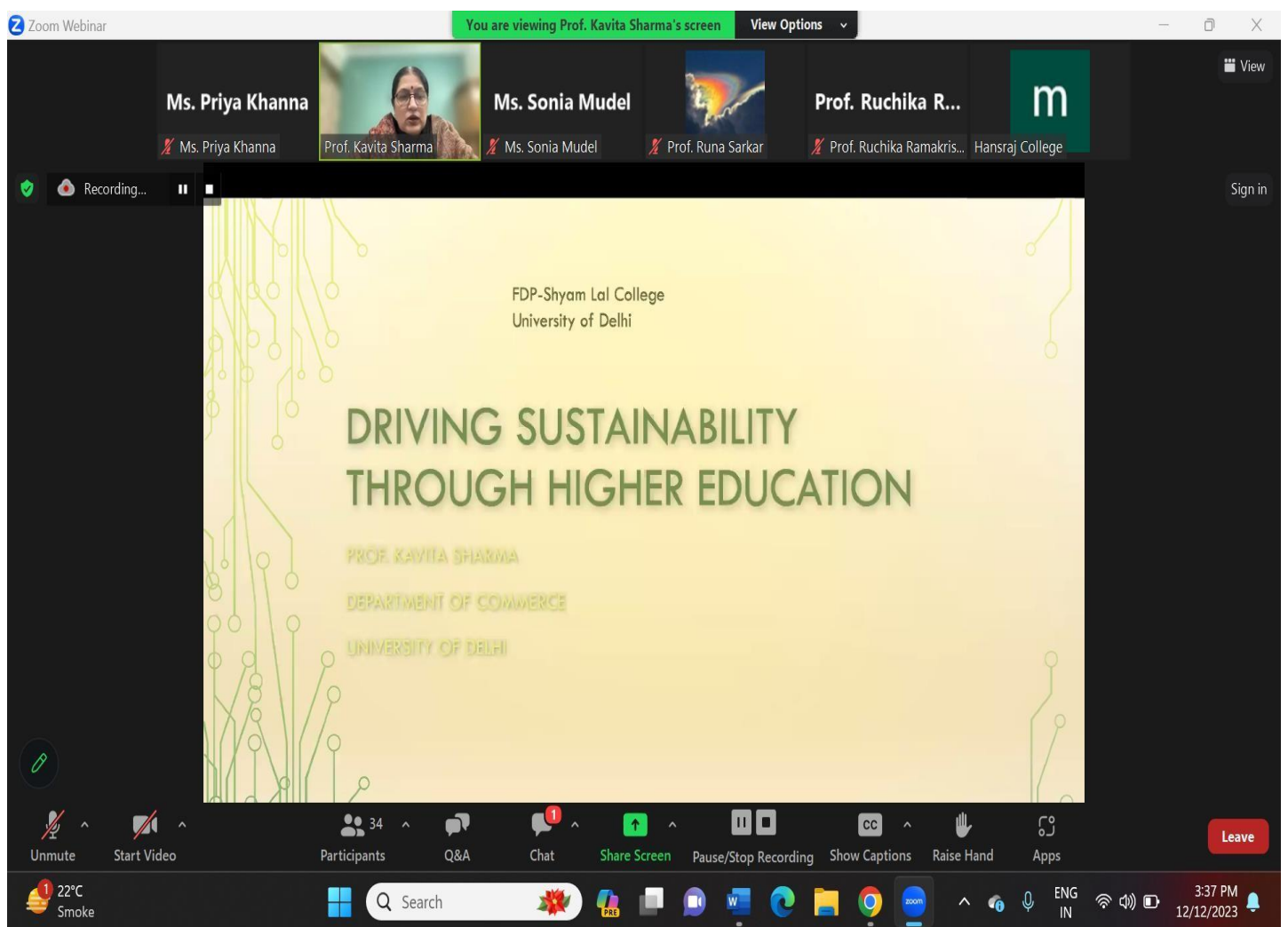
Resource Person - Prof. Kavita Sharma, Dept. of Commerce, DSE, University of Delhi

Prof. Kavita Sharma was given a brief introduction and welcomed by Ms. Priya Khanna in the beginning of the session. Prof. Kavita Sharma initiated the session discussing the necessity of using SDGs by academicians and students. She said the UN SDGs have brought a change in the thought process that has shifted the focus to Education for Sustainable Development. Today, we are doing more justice to the Sustainability agenda through course creation, that is a separate course on sustainability. She also suggested that integration of sustainability in education should not only be in a peripheral manner but besides adding a new course altogether on sustainability, we must try to incorporate sustainability in Core courses as well. She said the automatic linking of sustainability is necessary in learning objectives, for it to get integrated in our pedagogies so that effects can be seen in learning outcomes. But she also highlighted that the biggest limitation faced in doing so is the disparity between practice and theory.

Prof. Sharma mentioned that Course creation is the catalyst of change. It is an initial level at which we need to work in order to achieve our aim of integrating sustainability. She listed 3 pillars of HEIs that can contribute towards sustainability namely, teaching, practice and research.

Prof. Sharma concluded the session by mentioning that pedagogy is the last mile of journey which is to be taken by teachers to integrate sustainability into education. Some provisions of NEP 2020 were also discussed.

The session ended with a formal vote of thanks, acknowledging the active participation of attendees and addressing their queries. Participants expressed their enjoyment of the informative and engaging session.



Zoom Webinar | You are viewing Prof. Kavita Sharma's screen | View Options

Ms. Priya Khanna | Prof. Kavita Sharma | Ms. Sonia Mudel | Hansraj College

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ADDRESSING SDG4

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Ms. Priya Khanna | Prof. Kavita Sharma | Ms. Sonia Mudel | Hansraj College

Recording...

OBSTACLES TO TRANSFORMING HIGHER EDUCATION

- The modern university is the embodiment of the mechanistic, utilitarian worldview that shaped the scientific and industrial revolutions. Separating pure from applied, objective from subjective; emphasizing manipulation, control, and quantitative measurement; and utilitarian philosophy shape academic functioning.
- The academy is deeply involved in providing expertise for an "unsustainable" world economy.
- Academic work -research, teaching and service - is organized in disciplines such as psychology, engineering, and theology – in a silo manner.

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Ms. Priya Khanna



Ms. Sonia Mudel



Ms. Priya Khanna

Prof. Kavita Sharma

Ms. Sonia Mudel

Hansraj College

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NEP, 2020 intends to have number of initiatives :

1. Ending Fragmentation
2. Imaginative/flexible curriculum
3. Credit Based System
4. Multiple Entry and Multiple Exit points
5. Structure and length of Programmes
6. Academic Bank of Credit (ABC)
7. Multidisciplinary Education and Research Universities (MERU)

MULTIDISCIPLINARY EDUCATION IN THE INDIAN HIGHER EDUCATION SYSTEM (HES)

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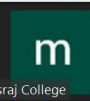


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Ms. Priya Khanna



Ms. Sonia Mudel



Ms. Priya Khanna

Prof. Kavita Sharma

Ms. Sonia Mudel

Hansraj College

Recording...

Sign in

OTHER INITIATIVES

- **Pedagogy** will focus on communication, discussion, debate, research, and cross-disciplinary thinking.
- HEIs will prioritize **research and innovation** through start-up incubation centers, technology development centres, and interdisciplinary research. They will focus on infectious diseases, epidemiology, virology, diagnostics, instrumentation, and vaccinology. The NRF will support a vibrant research and innovation culture across HEIs, research labs, and organizations.
- An **Academic Bank of Credit (ABC)** established to digitally store academic credits earned from recognized Higher Education Institutions (HEIs).

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Focused Areas under the NEP

- **Embracing Multi-disciplinarity:** Singularity in terms of acquiring knowledge in a particular discipline lacks the understanding of the complexity and interplay of various factors in the causation as well as finding a durable solution to a problem.
- **Adopting an inclusive approach:** The NEP 2020 focuses on providing accessible, inclusive and equitable education. The pedagogy used in a classroom must reflect the inclusive approach so that learners can relate what is taught in the class with the multiple perceptions and realities they experience.
- **Learning mode centric pedagogy:** The key modes of learning, viz. physical or offline, online, hybrid or blended modes, and flipped classroom necessitate varying pedagogies suited to the channel/s of communication characteristic to each mode of learning.

Method based pedagogy: There are multiple methods of learning which can be the desired learning outcomes or degrees of active participation of learners in the teaching-learning process both within and outside the classroom.

Geeta Saini raised hand

Day 3 - December 13, 2023

Session 1 (02:00 pm to 03:30 pm) - Developing Bhartiya Pedagogy for Higher Education

Resource Person - Prof. Haneet Gandhi, Dean Admissions, University of Delhi

At the start of the session, Dr. Manisha welcomed and greeted the guest; and gave a quick introduction to Prof. Haneet Gandhi. Prof. Haneet Gandhi explained the connection between ecosystem, admission and sustainability. She has given complete detail of Delhi university admission process, and also explained that how even during the time of pandemic the admission procedure went well. She also added to discussion that how they are trying to make the entire procedure of admission paperless, which is very sustainable and good for the environment.

A formal vote of thanks was held at the end of the session to acknowledge everyone's active participation and answers to their questions. Attendees conveyed their satisfaction with the thought-provoking and captivating lecture.



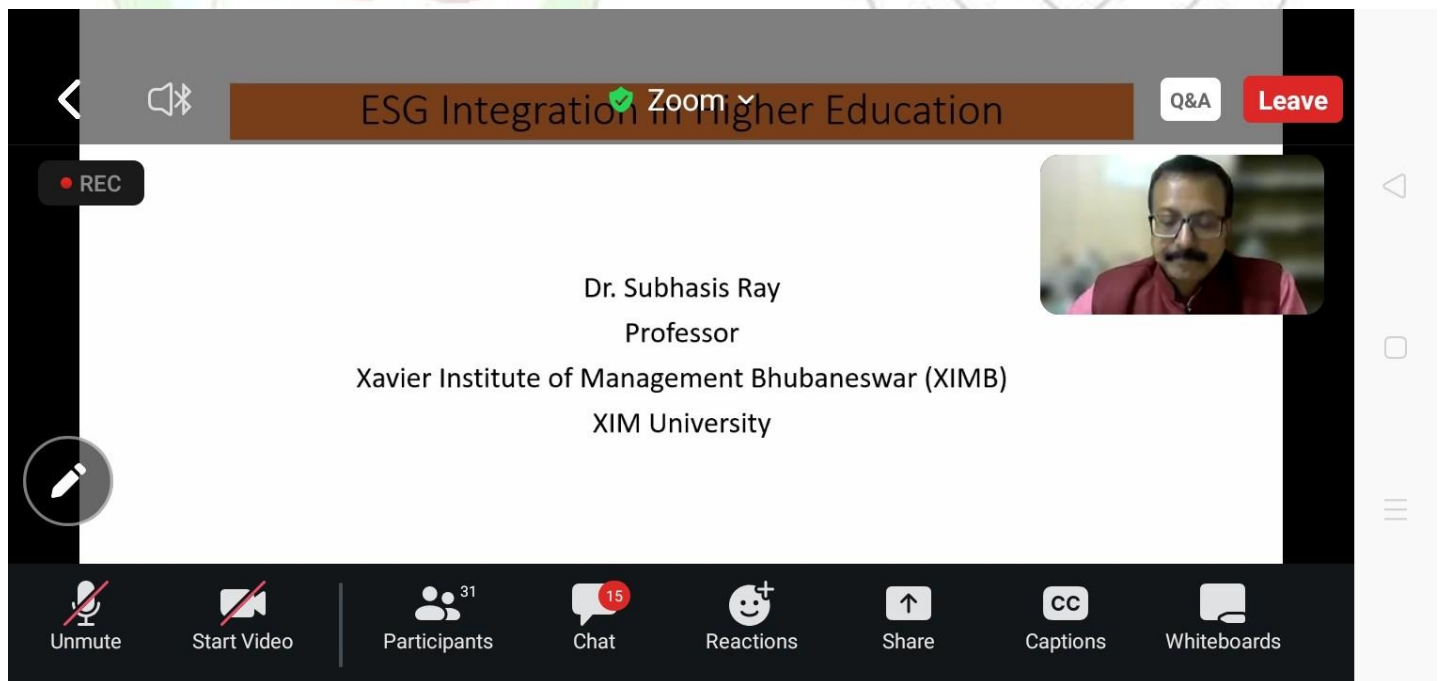
Session 2 (03:30 pm to 05:00 pm) - ESG in Higher Education: From Strategy to Execution

Resource Person - Prof. Subhasis Ray, Xavier Institute of Management

Beginning with the session, Dr. Manisha greeted the second speaker of the day, gave a quick introduction to Prof. Subhasis Ray. Prof. Subhasis Ray, who is a professor of sustainability, started his session with some brainstorming sessions and asked the audience questions like who is responsible for climate change and who's going to save the planet from this harm. Then he discussed in detail about the seventeen SDG goals, what they are aiming for and what is happening in the other parts of the world for achieving these goals.

Prof. Ray not only discussed the problem but also suggested very useful and effective remedies to solve the sustainability issues which have been adopted globally. At the end of the session Prof. Ray concluded the session and answered the participant's questions.

The session concluded with a formal vote of thanks and gratitude, acknowledging the participants' active participation and responding to their queries. The attendees found the session to be both educational and captivating.



The screenshot shows a Zoom meeting interface. At the top, the meeting title is "ESG Integration in Higher Education" with a "Zoom" logo and a "Leave" button. Below the title, there is a "REC" indicator and a video thumbnail of Dr. Subhasis Ray. The main content area displays the following text:

Dr. Subhasis Ray
Professor
Xavier Institute of Management Bhubaneswar (XIMB)
XIM University

At the bottom, there is a toolbar with icons for Unmute, Start Video, Participants (31), Chat (15), Reactions, Share, Captions, and Whiteboards.



REC

Environmental

- Renewable Fuels
- Greenhouse gas emission
- Energy Efficiency
- Climate Risk
- Water Management
- Recycling process
- Emergency preparedness



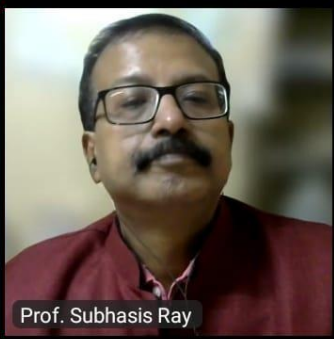
Zoom

Q&A Leave

REC



Dr. Manisha



Prof. Subhasis Ray



Hansraj College

- Unmute
- Start Video
- Participants ²⁴
- Chat
- Reactions
- Share
- Captions
- Whiteboards

Day 4 - December 14, 2023

Session 1 (02:00 pm to 03:30 pm) - HEIs for Climate Change Resilience, Adaptation and Mitigation

Resource Person - Prof. Rupam Kapoor, Dept. of Botany, University of Delhi

The session started with a brief introduction and welcome of the speaker Prof. Rupam Kapoor by Ms. Priya Khanna. Prof. Rupam Kapoor started the session by stating the fact that 2022 was the hottest year and the cause for this was Green House Gases effect on climate. She differentiated between two schools of thoughts on Global Warming wherein one says that global warming results in climate change and the other believes that global warming is a part of climate change. She also mentioned that although water bodies are moderators of climate change, it has a detrimental impact on marine life.

Prof. Kapoor highlighted the Impact of Climate Change on India. She, then, discussed the role of India in meeting the targets that have been set for climate change during COP26 held in Glasgow, UK. She also talked about Carbon Footprints and suggested ways to decrease them such as installing energy friendly energy resources, replacing single use things with reusables etc.

According to Prof. Rupam, key drivers to integrate sustainability are education and training. She also discussed Sustainability initiative by HEIs that can be incorporated through Induction in curriculum, Extra- curricular activities and outreach programs.

To conclude the session, she mentioned the inclusion of EVS as a compulsory subject in all disciplines under NEP 2020. She also highlighted that the syllabus of the subject includes aspects of climate change in great detail, unlike earlier, which is necessary for sensitization of students.

A formal vote of gratitude was held to finish the session, recognizing the attendees' active engagement and answering their questions. The interesting and educational workshop were well-received by the participants.

Zoom Webinar

Recording... Sign in View

Prof. Rupam Kapoor Ms. Priya Khanna Prof. Ruchika Ramakrishnan

m **Ms. Sonia Mudel**

Hansraj College Ms. Sonia Mudel

Unmute Stop Video Participants 27 Q&A Chat 22 Share Screen Pause/Stop Recording Show Captions Raise Hand Apps Leave

21°C Smoke Search ENG IN 2:08 PM 12/14/2023

Zoom Webinar You are viewing Prof. Rupam Kapoor's screen View Options

Ms. Priya Khanna Ms. Priya Khanna Prof. Rupam Kapoor Prof. Ruchika R... Prof. Ruchika Ramakris... Hansraj College

Recording... Sign in

HEIs FOR CLIMATE CHANGE RESILIENCE, ADAPTATION AND MITIGATION

Prof. Rupam Kapoor
Department of Botany
University of Delhi
Delhi-110007

Participants (31)
Panelists (5) Attendees (26)

- MP Ms. Priya Kha... (Co-host, me) [mute] [video off]
- M Hansraj College (Host) [mute] [video off]
- R Prof. Rupam K... (Co-host) [mute] [video on]
- MS Ms. Sonia Mudel (Co-host) [mute] [video off]
- PR Prof. Ruchika Ram... (Co-host) [mute] [video off]

Unmute Start Video Participants 31 Q&A Chat 27 Share Screen Raise Hand Apps More Leave Invite Mute All

21°C Smoke Search ENG IN 2:10 PM 12/14/2023

Zoom Webinar

Ms. Priya Khanna | Prof. Rupam Kapoor | Prof. Ruchika R... | Hansraj College

Recording...

Natural Greenhouse Effect

Human Enhanced Greenhouse Effect

21°C Smoke

2:14 PM 12/14/2023

Zoom Webinar

Ms. Priya Khanna | Prof. Rupam Kapoor | Prof. Ruchika R... | Hansraj College

Recording...

Causes of Climate Change

- Rapid industrialization
- Energy use
- Agricultural practices
- Deforestation
- Consumer practices
- Livestock
- Transport
- Resource extraction
- Pollution

21°C Smoke

2:15 PM 12/14/2023

Participants (32)

Panelists (5) | Attendees (27)

- MP Ms. Priya Kh... (Co-host, me)
- m Hansraj College (Host)
- R Prof. Rupam ... (Co-host)
- MS Ms. Sonia Mudel (Co-host)

Webinar Chat

RS Richa Suri Rastogi, Associate Professor, Department of Economics, ARSD College, University of Delhi

Who can see your messages? Recording On

To: Hosts and panelists

Type message here...

Zoom Webinar | You are viewing Prof. Rupam Kapoor's screen | View Options

Ms. Priya Khanna | Prof. Rupam Kapoor | Prof. Ruchika R... | Hansraj College

Climate Change

A triple threat for the ocean

Burning fossil fuels, deforestation and industrial agriculture release carbon dioxide (CO₂) and other heat-trapping gases into our atmosphere, causing our planet to warm. The ocean has buffered us from the worst impacts of climate change by absorbing more than 90 percent of this excess heat and about 25 percent of the CO₂, but at the cost of causing significant harm to marine ecosystems.

> 90% HEAT | ~25% CO₂

WARMER | **LESS OXYGEN** | **MORE ACIDIC**

- SEA LEVEL**: Sea level rise is accelerating, flooding coastal communities and drowning wetland habitats.
- BLEACHING**: Warm-water coral reefs (marine biodiversity hotspots) could be lost if the planet warms by 2°C (3.6°F).
- TOXIC ALGAE**: Larger and more frequent blooms are making fish, birds, marine mammals and people sick.
- HABITATS**: Lower oxygen levels are suffocating some marine animals and shrinking their habitats.
- ACIDIFICATION**: More acidic water harms animals that build shells, such as corals, clams, and oysters.
- FISHERIES**: Disruptions in fisheries affect the marine food web, local livelihoods, and global food security.

Participants (32) | Panelists (6) | Attendees (26)

Search

- AK AMIT KAPOOR
- BK Balram Kindra
- DJ Dr jasmeet kaur
- DS Dr Sudhir Kumar Yadav
- DM Dr. Mala k.s
- DM Dr. Manika Jain
- DM Dr. Megha Jain
- DS Dr. Shailja Singh
- DT Dr. Tanu
- GS Geeta Saini
- MK Mukesh Kumar

Lower All Attendees' Hands

Unmute | Start Video | Participants | Q&A | Chat | Share Screen | Raise Hand | Apps | More | Leave

21°C Smoke | Search | ENG IN | 2:20 PM 12/14/2023

Zoom Webinar | You are viewing Prof. Rupam Kapoor's screen | View Options

Ms. Priya Khanna | Prof. Rupam Kapoor | Prof. Ruchika R... | Hansraj College

Impact of Climate Change in India

1. Increase in Heat Wave
2. More Erratic Monsoons
3. Increase in Droughts and Floods
4. Rise in Sea Level
5. Tropical Storms

Droughts are expected to be more frequent in some areas, especially in **north-western India**, Jharkhand, Orissa and Chhattisgarh.

Melting of glaciers also threaten the higher reaches of the Himalayas, which increases flow of water in the rivers, resulting in higher flood risks. **The Indus, Ganga and Brahmaputra basins** are considered particularly at risk of increased flooding.

Participants (35) | Panelists (6) | Attendees (29)

Search

- MP Ms. Priya Kha... (Co-host, me)
- M Hansraj College (Host)
- R Prof. Rupam K... (Co-host)
- MS Ms. Sonia Mudel (Co-host)
- PR Prof. Ruchika Ram... (Co-host)
- PP Prof. P. M. Mohan

Invite | Mute All | Leave

Unmute | Start Video | Participants | Q&A | Chat | Share Screen | Raise Hand | Apps | More | Leave

21°C Smoke | Search | ENG IN | 2:23 PM 12/14/2023

Zoom Webinar | You are viewing Prof. Rupam Kapoor's screen | View Options

Ms. Priya Khanna | Prof. Rupam Kapoor | Prof. Ruchika R... | Hansraj College

Economic and Social Impact of Climate Change in India

Agriculture and Food Security
Seasonal water scarcity, rising temperatures, and intrusion of sea water would threaten crop yields, jeopardizing the country's food security.
Under 2° C warming by the 2050s, the country may need to import more **than twice the amount of food-grain** than would be required without climate change.

Water Security
An increase in variability of monsoon rainfall is expected to increase water shortages in some areas.
Studies have found that the threat to water security is very **high over central India, along the mountain ranges of the Western Ghats, and in India's northeastern states.**

Energy Security
Climate-related impacts on water resources can undermine the two dominant forms of power generation in India - **hydropower and thermal power generation** - both of which depend on adequate water supplies to function effectively.

Participants (37): Panelists (6), Attendees (31)

Ms. Priya Kha... (Co-host, me) | Hansraj College (Host) | Prof. Rupam K... (Co-host) | Ms. Sonia Mudel (Co-host) | Prof. Ruchika Ram... (Co-host) | Prof. P. M. Mohan

Unmute | Start Video | Participants | Q&A | Chat | Share Screen | Raise Hand | Apps | More | Leave

21°C Smoke | Search | 2:25 PM 12/14/2023

Zoom Webinar | You are viewing Prof. Rupam Kapoor's screen | View Options

Ms. Priya Khanna | Prof. Rupam Kapoor | Hansraj College | Prof. P. M. Mohan

What can you do to Reduce your Carbon Footprints?

Install **Solarpanels** or switch to **Green power**

Choose **Reusable, Ditch Single-Use**

Install **Draught-proofing**

Shop **Second Hand**

Buy **Local food**

Reduce **Food Waste**

Replace **Halogen Lights**

Train, Tram, Bus, Bike & Walk more

Thermostat to **20C in Winter & 25C in Summer**

Participants (38): Panelists (6), Attendees (32)

Search

AK AMIT KAPOOR | AM Awanish mishra | BK Balram Kindra | D Dipank | DJ Dr jasmeet kaur | DS Dr Sudhir Kumar Yadav | DM Dr. Mala k.s | DM Dr. Manika Jain | DM Dr. Megha Jain | DN Dr. Nidhi Gandhi | DS Dr. Shaiija Singh

Unmute | Start Video | Participants | Q&A | Chat | Share Screen | Raise Hand | Apps | More | Leave

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Lower All Attendees' Hands

Session 2 - (03:30 pm to 05:00 pm) - Ensuring Environmental Sustainability: Importance of Marine Science

Resource Person - Prof. P. M. Mohan, Pondicherry University

At the start of the session, Ms. Priya Khanna greeted and gave a quick introduction to Prof. P. M. Mohan. Prof. P. M. Mohan initiated the session discussing the meaning of environment and how it is different from ecosystem. He then delved into the bifurcation of the ecosystem into two parts namely, terrestrial ecosystem and aquatic ecosystem. Brief discussion on how both are different was done. He further progressed to discuss the Marine Ecosystem in detail.

Prof. Mohan also covered environmental sustainability, the effects of human activity on the environment, particularly marine ecology, and the implications for human health. He emphasized the distinctive qualities of the marine ecosystem and informed us that the global body of knowledge regarding marine ecosystems is very little. Prof. Mohan also mentioned how India's coastline might contribute to economic growth by creating jobs. He also mentioned the importance of understanding the science of the ocean to avoid crop failure because of monsoonal failure and emphasized how marine ecosystems may preserve our world by storing carbon emissions caused by anthropogenic actions.

He talked about how marine ecology can help meet future consumption demands as he concluded the session. The session ended with a formal vote of thanks, acknowledging the active participation of attendees and addressing their queries. Participants expressed their enjoyment of the informative and engaging session.

The screenshot displays a Zoom Webinar window. At the top, it says "Zoom Webinar" and "You are viewing Prof. P. M. Mohan's screen". Below this, there are five video thumbnails: Ms. Priya Khanna, Prof. P. M. Mohan, Prof. Ruchika Ramakrishn..., Hansraj College, and Ms. Sonia Mudel. The main content area shows a presentation slide with the following text: "ENSURING ENVIRONMENTAL SUSTAINABILITY: IMPORTANCE OF MARINE SCIENCE", "Dr. P. M. MOHAN PROFESSOR", "DEPARTMENT OF OCEAN STUDIES AND MARINE BIOLOGY", "PONDICHERRY UNIVERSITY OFF CAMPUS", "BROOKSHABAD, PORT BLAIR - 744 112", "ANDAMAN AND NICOBAR ISLANDS", and "DECEMBER - 2023". The Zoom control bar at the bottom includes icons for Unmute, Stop Video, Participants (36), Q&A, Chat, Share Screen, Pause/Stop Recording, Show Captions, Raise Hand, Apps, and a Leave button. The system tray at the bottom right shows the date and time as 3:04 PM on 12/14/2023.

Zoom Webinar

Recording... Sign in View

Participants (35)

Panelists (5) Attendees (30)

Q Search

- AK AMIT KAPOOR
- BK Balram Kindra
- D Dipank
- DM Dr Megha Jain
- DS Dr Sudhir Kumar Yadav
- DM Dr. Mala k.s
- DM Dr. Manika Jain
- DN Dr. Nidhi Gandhi
- DP Dr. Parminder Kaur
- DS Dr. Saubhgyalaxmi Singh
- DT Dr. Tanu

Lower All Attendees' Hands

Ms. Sonia Mudel

Ms. Sonia Mudel

Unmute Stop Video Participants Q&A Chat Share Screen Raise Hand Apps More Leave

NIFTY +1.23%

Search

ENG IN 3:03 PM 12/14/2023

Zoom Webinar

You are viewing Prof. P. M. Mohan's screen View Options

Ms. Priya Khanna Prof. Ruchika R... Hansraj College

Recording... Sign in

Environmental sustainability concerns the natural environment and how it endures and remains diverse and productive.

Since natural resources are derived from the environment, the state of air, water, and climate is of particular concern.

Environmental sustainability requires society to design activities to meet human needs while preserving the life support systems of the planet.

This, for example, entails using water sustainably - using renewable energy and sustainable material supplies (e.g. harvesting wood from forests at a rate that maintains the biomass and biodiversity)

Webinar Chat

- DM Dr. Manika Jain Associate Professor Department of Commerce Atma Ram Sanatan Dharma College, University of Delhi
- RS Richa Suri to Everyone Richa Suri Rastogi, Associate Professor, Department of Economics, Atma Ram Sanatan Dharma College, University of Delhi
- DP Dr. Parminder Kaur to Everyone Dr. Parminder Kaur Assistant Professor ARSD College University of Delhi.

Who can see your messages? Recording On

To: Hosts and panelists

Type message here...

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21°C Smoke

Search

ENG IN 3:11 PM 12/14/2023

Zoom Webinar

Ms. Priya Khanna | Prof. P. M. Mohan | Prof. Ruchika Ramakris... | Hansraj College | Ms. Sonia Mudel

Recording...

THE EFFECTS ON THE ENVIRONMENT

- Loss of ecosystem stability:
- Decline in ecosystem services:
- Loss of genetic resources:
- Altered biogeochemical cycles:
- Increased risk of species extinction

AFFECTS HUMANS

- Reduced food security:
- Decline in human health:
- Economic losses:
- Loss of cultural values:
- Increased vulnerability to natural disasters:
- Reduced resilience to climate change:

21°C Smoke

3:19 PM 12/14/2023

Zoom Webinar

Ms. Priya Khanna | Prof. P. M. Mohan | Prof. Ruchika Ramakris... | Hansraj College | Ms. Sonia Mudel

Recording...

Terrestrial Ecosystem

A terrestrial ecosystem is a land-based population of species that includes biotic and abiotic interactions in a specific area.

The temperature range, average quantity of precipitation, soil type, and amount of light received help to determine the type of terrestrial ecosystem present in a particular location of continents and islands.

The terrestrial ecosystem covers 144,150,000 km², or 28% of the Earth's surface.

12/14/2023 11

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3:21 PM 12/14/2023

Zoom Webinar | You are viewing Prof. P. M. Mohan's screen | View Options

Ms. Priya Khanna | Prof. P. M. Mohan | Prof. Ruchika R... | Ms. Sonia Mudel

Recording...

Ocean depths

The vastness of the oceans can be hard to grasp. Scroll down for an idea of just how deep they go

Water covers **70%** of our planet
365,654,520 square kilometres

0m / sea level
40m Recreational diving limit
195m Photic Zone / Aphotic Zone
318m World SCUBA dive record
535m Bottlenose dolphins feeding range
1035m Estimated depth reached by classified US military submarines

Unmute | Start Video | Participants (34) | Q&A | Chat | Share Screen | Pause/Stop Recording | Show Captions | Raise Hand | Apps | Leave

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Zoom Webinar | You are viewing Prof. P. M. Mohan's screen | View Options

Ms. Priya Khanna | Prof. P. M. Mohan | Prof. Ruchika R... | Ms. Sonia Mudel

Recording...

The **8000 km length** of coastline legally provided India with **2.4 million square km of marine environment (1.7 + 0.7)**.
These resources (living and non-living) will be exploited for our country's future needs.
So, it also provides different kinds of employment for the future.
The variation of climate change like **monsoonal rain** will always depend upon the **ocean water movement (currents)**.
If we understand the **science of ocean**, it can be possible to **save our crops from monsoonal failure**.

Unmute | Start Video | Participants (36) | Q&A | Chat | Share Screen | Pause/Stop Recording | Show Captions | Raise Hand | Apps | Leave

21°C Smoke | Search | ENG IN | 3:35 PM 12/14/2023

Zoom Webinar You are viewing Prof. P. M. Mohan's screen View Options

Ms. Priya Khanna Prof. P. M. Mohan Prof. Ruchika R... Ms. Sonia Mudel

Recording...

It has been identified that after **2050, the availability of fossil fuels will be meagre or nil.**

However, marine scientists identified that **we had crystalized methane below 2000 m depth of the ocean.**

This can be extracted by having fossil gas that can be used **for our future energy needs.**

Unmute Start Video Participants 34 Q&A Chat Share Screen Pause/Stop Recording Show Captions Raise Hand Apps Leave

Breaking news Unfolding now Search ENG IN 3:40 PM 12/14/2023

Day 5 - December 15, 2023

Session 1 (02:00 pm to 03:30 pm) - A Case Study of Implementation of Select SDGs in a HEI

Resource Persons - Prof. Alok Saklani, SRHU, Dehradun and Dr. Shweta Jha, Apeejay School of Management

The session started with a brief introduction and welcome of the speaker Prof. Alok Saklani and Dr. Shweta Jha by Dr. Manisha.

Prof. Alok Saklani opened the session by introducing the 17 SDG Goals, adding that the aim of these goals is to achieve universal health coverage, and provide access to safe and affordable medicines and vaccines for all. He put great emphasis on the adoption of environment friendly practices such as E- Vehicles, Energy audit, waste recycling system, environment audit, green audit and so on.

In keeping with the SDG goals, Prof. Saklani further discussed the mental health of the youth. He suggested that, to overcome these setbacks and address long-standing health care shortcomings, increased investment in health systems is needed to support countries in their recovery and build resilience against future health threats.

Adding to this, Dr. Shweta Jha, discussed SDG 6, that is to ensure availability and sustainable management of water and sanitation for all. She also added that community services projects are the need of the current education system, which can build a strong nation.

A formal vote of gratitude was held to finish the session, recognizing the attendees' active engagement and answering their questions. The interesting and educational workshop were well-received by the participants.





Session 2 (03:30 pm to 05:00 pm) - Integrating Sustainability in Business Administration Curriculum

Resource Person - Prof. Rajiv Sijariya, Dean ABVSME

Prof. Rajiv Sijaria was welcomed and briefly introduced by Dr. Manisha. Prof. Sijaria discussed the importance of harmonizing higher education with sustainable development goals through vasudaiva kutumbakam. Prof. Sijariya, mentioned the importance of having gender equality and empowering women and girls, adding that gender equality is not only a fundamental human right, but also a necessary foundation for a peaceful, prosperous and sustainable world.

He further shared his views on sustainable agriculture. He said that the food and agriculture sector offer key solutions for development and is central for hunger and poverty eradication. In continuation to this, he concluded his discussion by mentioning that all the seventeen goals are most important to make the world a better place to live. The quote “One earth, one nature and one family” is indeed meaningful only if we work together as family and protect our mother nature.

The session ended with a formal vote of thanks, acknowledging the active participation of attendees and addressing their queries.

Recording Paused | You are viewing Prof. Rajeev Sijariya's screen | View Options | Sign in | View

FDP shyamal ppt on SDGs on 15 Dec 23 (2) [Protected View] - PowerPoint

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

1 2 3 4 5 6 7

MMS-UGC, SLC, HANSRAJ COLLEGE
ONE-WEEK (ONLINE) INTERDISCIPLINARY FACULTY DEVELOPMENT PROGRAMME ON
INTEGRATING SUSTAINABILITY IN HIGHER EDUCATION 15 DECEMBER 2023 TIME: 3:30-5:00

Harmonizing Higher Education with Sustainable Development Goals through Vasudaiva Kutumbakam

Prof. Rajeev Sijariya
Dean
Atal Bihari Vajpayee School of Management and Entrepreneurship,
Jawaharlal Nehru University, New Delhi

Prof. Rajeev Sijariya

Ms. Sonia Mudel
Ms. Sonia Mudel

Prof. Ruchika R...
Prof. Ruchika Ramakrishn...

Hansraj College

Dr. Manisha
Dr. Manisha

Unmute Start Video Participants 36 Q&A Chat 7 Share Screen Resume/Stop Recording Show Captions Raise Hand Apps Whiteboards Leave

Zoom Webinar | Recording... | Sign in | View

Participants (32)

Panelists (5) Attendees (27)

Ms. Sonia Mu... (Co-host, me) [M] [A] [V] [M]

Hansraj College (Host) [M] [A] [V] [M]

Prof. Rajeev Sijariya (Co-host) [M] [A] [V] [M]

Prof. Ruchika Ram... (Co-host) [M] [A] [V] [M]

Dr. Manisha (Co-host) [M] [A] [V] [M]

Ms. Sonia Mudel

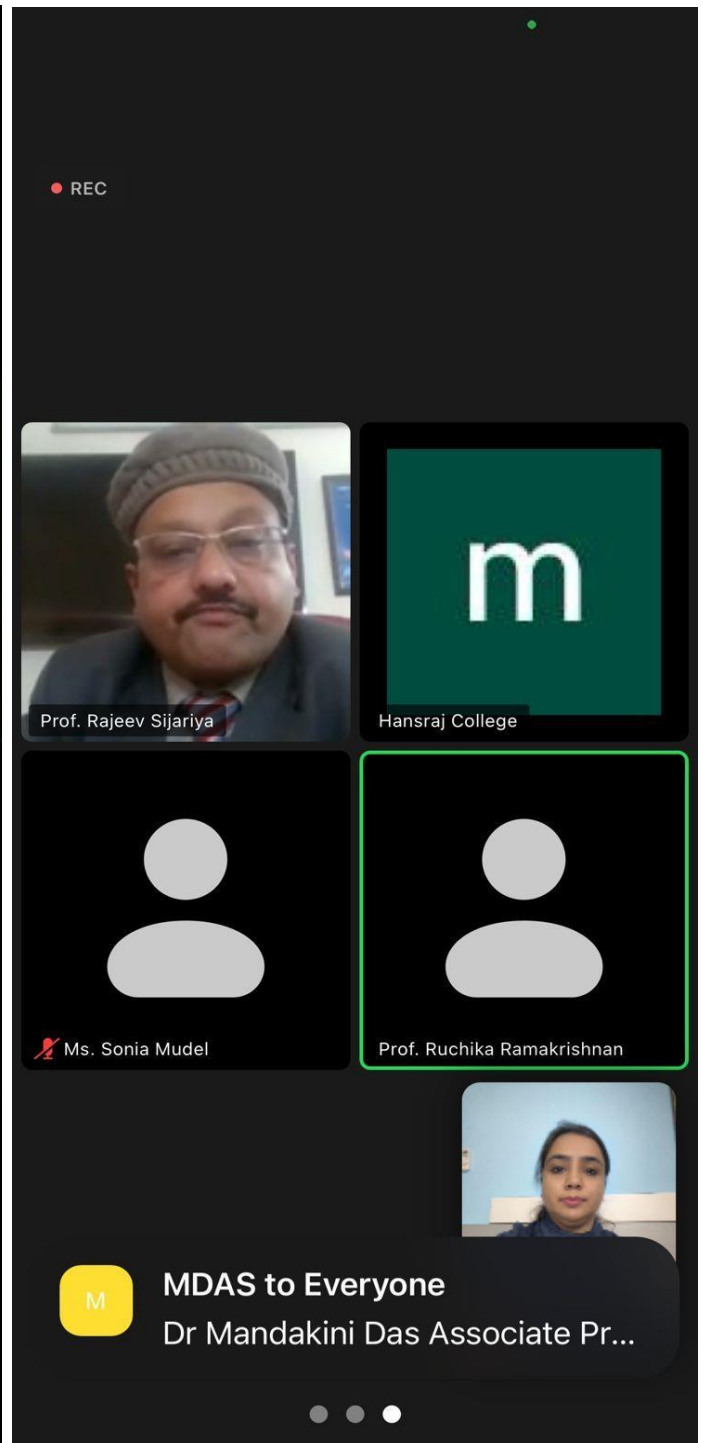
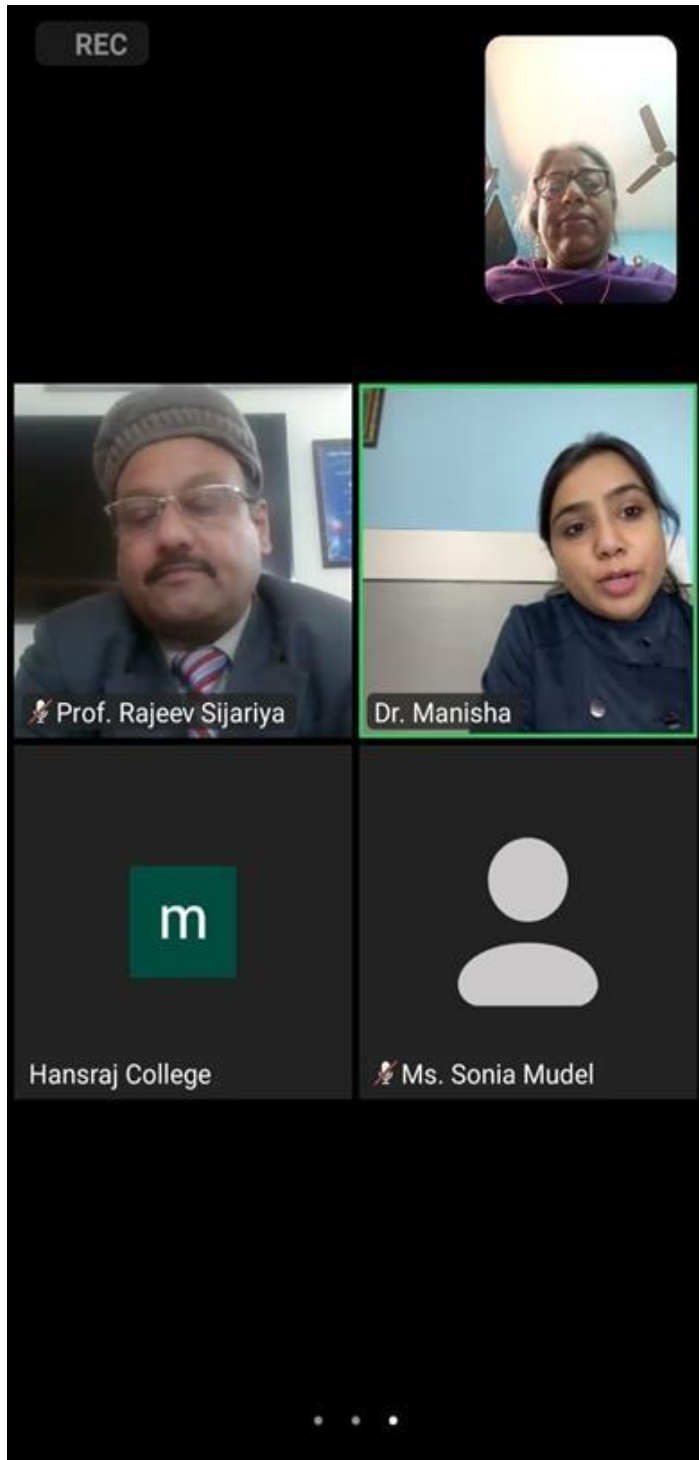
Prof. Ruchika Ra...
Prof. Ruchika Ramakrishnan

Dr. Manisha

Hansraj College

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Type here to search | 21°C | ENG 4:42 PM IN 12/15/2023



Day 6 - December 16, 2023

Session 1 (02:00 pm to 03:30 pm) - Sustainability Communication in HEIs: A Holistic Development.

Resource Person - Dr. Neha Bhardwaj, Assistant Professor, FMS, University of Delhi

Dr. Neha Bhardwaj delved into the facets of social, economic, and environmental activities that strive for equity, viability, and sustainability. Emphasizing the significance of effective communication in the realm of sustainable development, she underscored the necessity of conveying its principles. Sustainable development, as she highlighted, serves as the guiding path toward a future that embraces economic growth, social justice, environmental stewardship, and robust governance.

Furthermore, Dr. Bhardwaj articulated how communication plays a pivotal role in fostering productivity among employees, facilitating collaboration with partners and suppliers, and connecting with stakeholders. The discourse elucidated the importance of communication in, about, and for sustainability, shedding light on the detailed discussion of Target 4.7, focusing on Education for Sustainable Development and global citizenship.

In essence, the comprehensive dialogue underscored the transformative role of sustainable communication in fostering holistic development among all stakeholders, making a compelling case for the imperative of cultivating sustainable universities.

The screenshot shows a Zoom meeting interface. At the top, it says "Recording..." and "You are viewing Dr. Neha Bhardwaj's screen". The main content is a slide titled "Why communicate ??". The slide is divided into three columns:

- Creates productivity among employees**
 - Enhances efficiency by ensuring employees have the necessary knowledge to do their job well
 - Creates commitment
 - Breaks down knowledge silos
- Facilitates collaboration with partners and suppliers**
 - Smoothens transactions among value chain
- Connect with stakeholders**
 - Create awareness
 - What you communicate, affects the brand

On the right side of the Zoom window, there is a list of participants:

- Dr. Neha Bhardwaj (video on)
- Ms. Sonia Mudel
- Hansraj College
- Ms. Priya Khanna
- Dr. Manisha

At the bottom of the Zoom window, there is a toolbar with various controls: Unmute, Start Video (Alt+V), Participants (16), Q&A, Chat (3), Share Screen, Pause/Stop Recording, Show Captions, Raise Hand, Apps, Whiteboards, and Leave.

Zoom Webinar | You are viewing Dr. Neha Bhardwaj's screen | View Options

Recording... | Sign in | View

Country Initiatives - India

- National Education Policy 2020 underscores the importance of making environmental education an integral part of school curricula at all stages.
- 2023: **India ranked eighth out of 59 countries and the European Union** (collectively accounting for 92% of global greenhouse gas emissions) on climate performance according to the Climate Change Performance Index
- National Curriculum Framework mentions climate change 52 times

Ms. Sonia Mudel
Hansraj College

Ms. Priya Khanna

Participants (36)
Attendees (31)

Search

- AK AMIT KAPOOR
- BK Balram Kindra
- D Dipank
- DA Dr Amit Kumar
- DJ Dr jasmeet kaur
- DM Dr Megha Jain
- DM Dr. Mala k.s
- DM Dr. Manika Jain
- DN Dr. Nidhi Gandhi
- DS Dr. Shailja Singh
- DS Dr. Sirtaj Kaur

Lower All Attendees' Hands

Unmute | Start Video | Participants (36) | Q&A | Chat | Share Screen | Apps | Whiteboards | More | Leave

Type here to search | 21°C Haze | ENG 3:05 PM IN 12/16/2023

Zoom Webinar | You are viewing Dr. Neha Bhardwaj's screen | View Options

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TARGET 4-1 FREE PRIMARY AND SECONDARY EDUCATION	TARGET 4-2 EQUAL ACCESS TO QUALITY PRE-PRIMARY EDUCATION	TARGET 4-3 EQUAL ACCESS TO AFFORDABLE TECHNICAL, VOCATIONAL AND HIGHER EDUCATION	TARGET 4-4 INCREASE THE NUMBER OF PEOPLE WITH RELEVANT SKILLS FOR FINANCIAL SUCCESS	TARGET 4-5 ELIMINATE ALL DISCRIMINATION IN EDUCATION
TARGET 4-6 UNIVERSAL LITERACY AND NUMERACY	TARGET 4-7 EDUCATION FOR SUSTAINABLE DEVELOPMENT AND GLOBAL CITIZENSHIP	TARGET 4-A BUILD AND UPGRADE INCLUSIVE AND SAFE SCHOOLS	TARGET 4-B EXPAND HIGHER EDUCATION SCHOLARSHIPS FOR DEVELOPING COUNTRIES	TARGET 4-C INCREASE THE SUPPLY OF QUALIFIED TEACHERS IN DEVELOPING COUNTRIES

Ms. Sonia Mudel
Hansraj College

Ms. Priya Khanna

Dr. Manisha

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UN Secretary-General António Guterres at the International Association of University Presidents Triennial Conference 2021
 “ We call on universities, through your teaching, research, and innovation, to continue to make a profound contribution to the 2030 Agenda.”

UN Deputy Secretary-General Amina J. Mohammed at the High-Level Americas University Presidents Meeting 2022
 “ Universities are places that nurture incubation, exchange, innovation and interdisciplinary analysis, setting the pathway to change.”

UN Director General Audrey Azoulay, at the World Higher Education Conference 2022
 “ Knowledge is absolutely critical in a world of complexity and challenges, like climate disruption, digital revolution or deepening of inequalities after the pandemic. We need to be able to rely on strong higher education all around the world.”

Dr. Neha Bhardwaj

Ms. Sonia Mudel
 Ms. Sonia Mudel
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 Hansraj College

Ms. Priya Khanna
 Ms. Priya Khanna

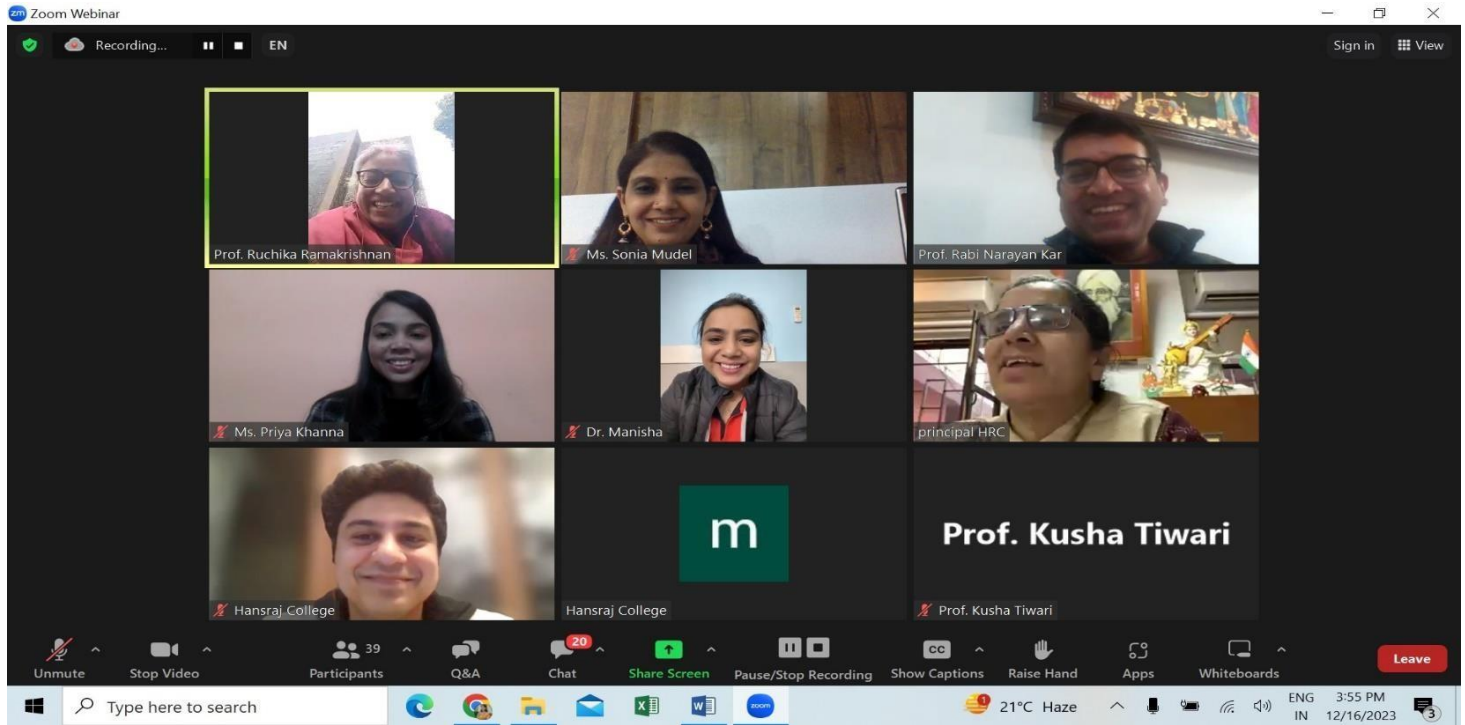
Dr. Manisha
 Dr. Manisha

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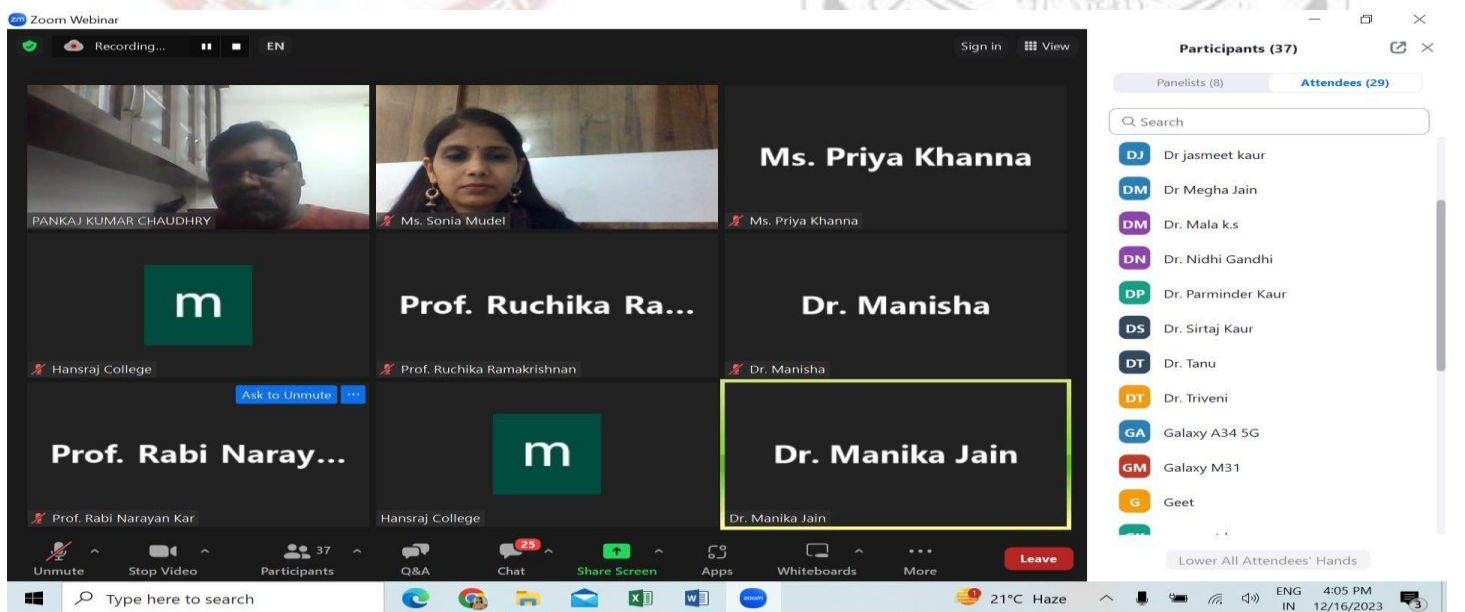
Session 2 (03:30 pm to 05:00 pm) - Valedictory Session

The One-Week Faculty Development Programme (FDP) on "Integrating Sustainability in Higher Education" has culminated with a spirit of knowledge sharing and collaborative learning. The valedictory session witnessed enlightening addresses by distinguished speakers, Prof. Rabi Narayan Kar, Principal, SLC and Prof. Rama, Principal, Hansraj College both eminent figures in the realms of education and literature. Prof. Kar provided insightful perspectives on the critical role of sustainability in shaping the future of higher education. His words emphasized the need for a holistic approach to education that integrates environmental consciousness, social responsibility, and ethical leadership.

Prof. Rama, further enriched the session. Her address highlighted the importance of education in fostering a sustainable mindset among students and educators. She encouraged and motivated us to have more such collaborations between the two colleges. Prof. Kusha Tiwari, Director of IQAC at SLC, shed light on the imperative of sustainable development within higher education. She extended her congratulations to the organizers of the FDP, acknowledging the successful completion of the Programme.



Adding a dynamic touch, the valedictory session also featured live feedback from participants. Their testimonials echoed the success of the FDP in providing a platform for meaningful discussions, collaborative learning, and practical insights into incorporating sustainability in academic practices. The live feedback not only celebrated the achievements of the Programme but also served as a testament to its enduring impact on the participants.



Towards the end of the Valedictory Session, Prof. Ruchika Ramakrishnan, FDP Convenor, through her words of appreciation, congratulated Prof. Rabi Narayan Kar, Principal, SLC, Prof. Rama, Principal, Hansraj College, Prof. Kusha Tiwari, IQAC director at SLC, Ms. Sonia Mudel, FDP Coordinator, organizing members Dr. Manisha and Ms. Priya Khanna, Mr. Ashutosh Yadav, Coordinator, MHRFDC, Ms. Deepshikha Yadav, Deputy Coordinator, MHRFDC and Dr. Anurag Kakkar, , Deputy Coordinator, MHRFDC for successful completion of the Programme. Concluding the session, Ms. Sonia Mudel extended a formal expression of gratitude. Her words of thanks encapsulated appreciation for the collective efforts that made this event successful, acknowledging the contributions of participants, speakers, and organizers.

