



UGC-Malaviya Mission Teacher Training Centre Himachal Pradesh University, Shimla, HP

NEP-2020: Orientation & Sensitization Programme

Is organizing Eight days online
w.e.f. 22nd April to 30th April, 2025
Training Programme ID:- MMC-034-2025-APR-B-03680

On NEP-2020 themes for capacity building:

1. <i>Holistic & Multidisciplinary Education</i>	2. <i>Skill Development</i>
3. <i>Indian Knowledge Systems</i>	4. <i>Student Diversity and Inclusive Education</i>
5. <i>Academic Leadership, Governance and Management</i>	6. <i>Information and Communication Technology</i>
7. <i>Higher Education & Society</i>	8. <i>Autonomy to the Institution & Choice to the students</i>
9. <i>Research and Development</i>	10. <i>Curriculum Development, Pedagogy and Assessment</i>



Chief Patron

Prof. Sat Prakash Bansal
Hon'ble Vice-Chancellor
H.P. University, Shimla

Apply: <https://forms.gle/W2QtXQZkngdCruvf6>

Two live sessions daily
Session-I: 01:30 PM to 3:00 PM
Session-II: 3:00 PM to 04:30 PM



Patron

Prof. Rajinder Verma
Hon'ble Pro Vice-Chancellor
H.P. University, Shimla



Prof. Desh Raj Thakur
Director

UGC-Malaviya Mission Teacher
Training Centre,
H.P. University, Shimla



Prof. Rakesh K Bajaj
Course Coordinator

NEP Nodal Officer
Jaypee University of Information
Technology, Wagnaghat, Solan



Dr. Ashwani Kumar
Assistant Director

UGC-Malaviya Mission Teacher
Training Centre,
H.P. University, Shimla

For more details contact:

Ph.: 0177-2831364, 7006464142, 9816337725

E-mail: hrcdshimla@gmail.com

UGC-Malaviya Mission Teacher Training Centre

Himachal Pradesh University, Shimla-5

(NAAC Accredited 'A' Grade University)

Eight Days NEP 2020: Orientation & Sensitization Programme

w.e.f. 22.04.2025 to 30.04.2025

Programme Team

1. Prof. D.R. Thakur, Director
2. Prof. Rakesh K Bajaj, Course Coordinator
3. Dr. Ashwani Kumar, Assistant Director

Timing of Technical Sessions:

I 1:30 p.m. to 3:00 p.m.

II 3:00 p.m. to 4:30 p.m.

Date & Day	Session	Topic	Resource Person
22.04.2025 (Tuesday)	I	Indian Knowledge System	Prof. D.R. Thakur Director, UGC-MMTTC, H.P. University, Shimla
	II	Higher Education & Society	
23.04.2025 (Wednesday)	I	SDGs and Global Sustainability	Dr. P.C. Abhilash Institute of Environment & Sustainable Development (IESD), Banaras Hindu University, Varanasi, Uttar Pradesh pcabhilash@hotmail.com ; pca.iesd@bhu.ac.in
	II	IPR & Patents	Prof. S.S. Kanwar Department of Biotechnology, HPU, Shimla callsskanwar@hpuniv.ac.in
24.04.2025 (Thursday)	I	Skill Development	Dr. Sabu K Thomas Porgamme Director, UGC- UGC- MMTTC, University of Calicut, Kerala sabukthomas@gmail.com
	II		
25.04.2025 (Friday)	I	Accreditation and Excellence in HEIs	Prof. Sunil Kumar Khah Dean (Accreditation) and Controller of Examination, JUIT, Wagnaghat sunil.khah@juit.ac.in ; sunil_khah@rediffmail.com
	II	Research and Development	Prof. P.B. Barman Head, Department of Physics and Material Science, JUIT, Wagnaghat pb.barman@juit.ac.in
26.04.2025 (Saturday)	I	Knowledge, Technology and Wisdom in the Context of Values and Morality	Prof. Rajesh Kumar Jha, D 723, Rudra Towers, Sunderpur, BHU, Varanasi. profrkjha@bhu.ac.in ; prof.rkjha@gmail.com
	II	Student Diversity & Inclusive Education	Prof. Sarika Sharma Department of Teacher Training and Non Formal Education, Faculty of Education, JMI, New Delhi. ssharma4@jmi.ac.in
28.04.2025 (Monday)	I	Curriculum Development, Pedagogy and Assessment	Prof. Sunil Kumar Dean Students' Welfare, CUHP, Dharmshala sunilibes@hpcu.ac.in
	II	Integration of Technology in Teaching and Learning	Prof. Maitreyee Dutta NITTTR, Chandigarh maitreyee@nitttrchd.ac.in

29.04.2025 (Tuesday)	I	Connecting Teachings Research	Prof. Yash Pal Sharma Dean Life Sciences, University of Jammu, Jammu yashdbm3@yahoo.com
	II	Design and Development of MOOC's on SWAYAM Portal	Prof. Gaurav Singh Central Institute of Educational Technology, NCERT, New Delhi. gaurav.singh@ciet.nic.in ; gaurinedu@gmail.com
30.04.2025 (Wednesday)	I	Holistic & Multidisciplinary Education	Prof. D.R. Thakur Director, UGC-MMTTC, H.P. University, Shimla
	II	MCQ Test	Dr. Ashwani Kumar Assistant Director, UGC-MMTTC, H.P. University, Shimla



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**Malaviya Mission Training Programme for capacity building of Faculty
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NEP – 2020

Eight Day Orientation and Sensitization Programme under MMTTP

Academic Leadership, Governance & Management (22nd Apr –30th Apr 2025)

**Organized by Jaypee University of Information Technology in collaboration with
Himachal Pradesh University, Summer Hills, Shimla (HP)**



Day 1 Report – MMTTP (22nd April 2025)

Resource Person:

Prof Desh Raj Thakur 22.04.2025 (Tuesday)

Director, UGC-MMTTC, H.P. University, Shimla

Prof. D R Thakur (MSc., PhD, DHE, MJMC) is presently working as Sr. Professor in department of Biosciences, Himachal Pradesh University, Summerhill, Shimla, HP. He joined HP University in 2001 after serving as Lecture in Dept. of Higher Education, Govt. of HP for about seven years. D R Thakur, has served as Chairman Dept. of Biosciences & Director, International Students' Welfare, of the University and presently holding the responsibility as Director Malaviya Mission Teacher Training Centre and Dean Faculty of Life Sciences, Himachal Pradesh University, Summerhill, Shimla.

- guided two Post Doctorate Fellows, Nine Ph D, and thirty seven M.Phil students.
- Research Projects of different granting agencies and
- published hundred and seventy-eight research papers of national and international repute.
- He is Member editorial and referee of many national and international research journals.

D R Thakur has also served as Warden for about 12 years, President, Himachal Pradesh University Biological Society (HUBS), President Himachal Pradesh University Teachers' Welfare Association, General Secretary, Himachal Pradesh University, Alumni Association and Institutional Animal Ethics Committee of the University and presently Chairman of the Institutional Animal Ethics Committee. He is life members of many national and International academic bodies and visited South Africa, New Zealand, Thailand, Portugal, Greece, Canada and Germany in context with academic activities.

He has delivered many invited talks & key notes in national and international conferences, seminars and symposia. He is member expert of State Wetland Authority, HIMCOSTE, Govt. of HP, Member Task Force, MOEF&CC, Govt. of India, and Member Expert, Evaluator, Examiner, Research Advisor, subject expert of various selection committee in state and central universities and Moderator of many Academic bodies and State Public Service Commissions.

D R Thakur has served as Chairman of many committees, constituted by HP Private Educational Regulatory Commission for Examination reforms, allocations of courses & PhD students and evaluation



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of eligibility of the faculty members to be the guide of PhD students as per UGC norms etc. for all private universities in the jurisdiction of Himachal Pradesh. He has served as Chairman of the State Focus Group for development of Curriculum on Environment Science for State Curriculum Frame Work under National Education Policy (NEP- 2020) through SCERT, Himachal Pradesh. He has been awarded six Prizes and Awards by different agencies and societies. D R Thakur has been publishing on many current issues of public concern in regional and national newspapers and has published thirteen new and first records from India and pioneer to compile the breeding of some migratory ducks and faunal diversity of a High Altitude Wetland, “Chandertal” a Ramsar Site in Trans Himalayas.

Session -I (1:30PM -3:00PM) Indian Knowledge System

The first day of the Eight-Day Orientation and Sensitization Programme under the Malaviya Mission Training Programme (MMTTP), organized by Himachal Pradesh University, Shimla, was successfully conducted on **22nd April 2025**. The session began with a warm and insightful **welcome address by Dr. Ashwani**, who welcomed the participants and set the tone for the day. The session was chaired by **Prof. R.K. Bajaj**, UGC-MMTTC Coordinator, who acknowledged the importance of NEP in the context of higher education and policy planning. On the inaugural day of the NEP-MMTTC (National Education Policy – Multi-Modal Teacher Training Curriculum) Programme, Prof. D. R. Thakur delivered an enlightening and impactful talk on the Indian Knowledge System (IKS). The session aimed to familiarize participants with the profound depth and breadth of India's traditional knowledge systems and their relevance in the context of the NEP 2020. Prof. Thakur began by outlining the philosophical foundations of Indian education, drawing attention to the holistic and multidisciplinary approach followed by ancient Indian scholars. He emphasized that the Indian Knowledge System encompasses diverse domains such as mathematics, astronomy, medicine, architecture, language, arts, ethics, and governance, all of which were intricately linked to education in ancient times.

Through numerous historical references and examples, Prof. Thakur illustrated how India's ancient universities such as Takshashila, Nalanda, and Vikramshila were global centers of learning, attracting scholars from across the world. He further explained how the Indian tradition of oral transmission, experiential learning, and value-based education offers critical insights for modern pedagogical frameworks. The talk also touched upon the contributions of Indian thinkers and scientists, including Aryabhata, Charaka, Sushruta, and Panini, underscoring the scientific temperament that underpinned their work.

Importantly, Prof. Thakur connected the IKS to the vision and objectives of NEP 2020, which seeks to decolonize education and promote cultural rootedness. He urged educators to integrate elements of IKS into their teaching practices to make learning more meaningful, inclusive, and reflective of India's civilizational ethos. The session concluded with a lively interaction, where participants discussed ways to implement IKS in various disciplines. Overall, the talk served as a compelling reminder of the rich intellectual heritage of India and its potential to contribute significantly to contemporary education reforms.



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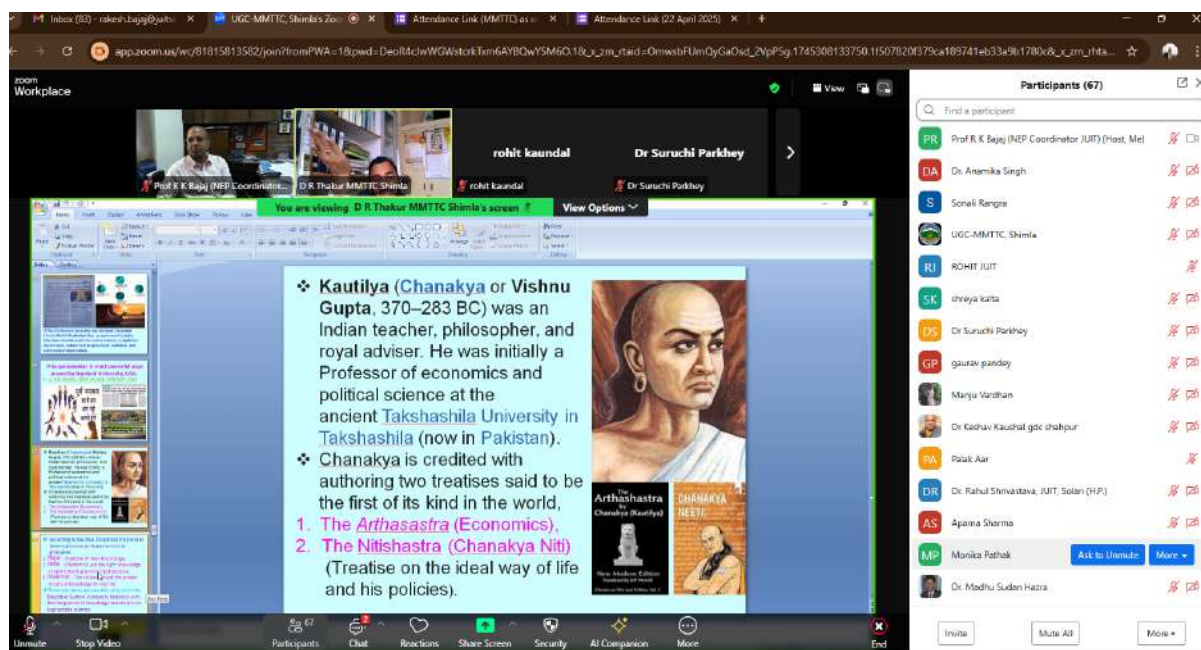


Zoom Meeting Screenshot 1: A Zoom meeting interface showing a presentation slide titled "PM Sh. Narendra Modi addressing at inaugural session of Governors' Conference on NEP 2020." The slide features a large image of PM Narendra Modi and a smaller inset image of the conference. The right sidebar lists 56 participants, including Prof. R. K. Bajaj, Dr. Anamika Singh, Sonali Rangra, and others. The bottom toolbar shows options like Participants, Chat, Reactions, Share Screen, Security, AI Companion, and More.

Zoom Meeting Screenshot 2: A Zoom meeting interface showing a presentation slide titled "Tulsi, an all-rounder herb for your health!" The slide contains text about the benefits of Tulsi (Holy Basil) and includes images of the plant. The right sidebar lists 65 participants, including Sujash, Shipra Kuchhal, Dr. Manjula Sharma, and others. The bottom toolbar shows options like Participants, Chat, Reactions, Share Screen, Security, AI Companion, and More.



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Session -II (3:00PM -4:30PM) Higher Education and Society

His session provided a deep and reflective understanding of the evolving relationship between educational institutions and the broader societal framework. Prof. Thakur began by contextualizing higher education as not merely a means of academic advancement but as a critical driver of social transformation, national development, and global progress. He emphasized that the real essence of higher education lies in its ability to influence society positively by nurturing informed, ethical, and responsible citizens.

Drawing from the vision and objectives of the NEP 2020, Prof. Thakur highlighted the urgent need to reimagine and revitalize higher education in India to meet the dynamic demands of the 21st century. He pointed out that higher education must move beyond the traditional boundaries of rote learning and narrow specialization. Instead, it should embrace multidisciplinary, value-based, and socially engaged learning paradigms. He explained how universities and colleges should evolve as spaces that promote critical thinking, creativity, inclusivity, and sustainability. In this context, he underlined the importance of integrating community engagement, social innovation, and ethical leadership into the educational process. Prof. Thakur also discussed the historical journey of higher education in India, referencing the rich legacy of ancient institutions like Nalanda, Takshashila, and Vikramshila, which once positioned India as a global knowledge hub. He argued that by drawing inspiration from this heritage while embracing modern pedagogies and technologies, India can create an education system that is both globally competitive and socially grounded. He further stressed the need for higher education institutions to collaborate with industry, civil society, and government bodies to address real-world challenges such as poverty, inequality, unemployment, and climate change.

A significant part of the talk was devoted to the role of teachers as catalysts of societal change. Prof. Thakur emphasized that educators must go beyond the conventional role of knowledge transmitters to become mentors, innovators, and social leaders. He encouraged faculty members to instill values such as empathy, accountability, and civic responsibility in students, thereby preparing them to contribute meaningfully to society. He also pointed out the need to

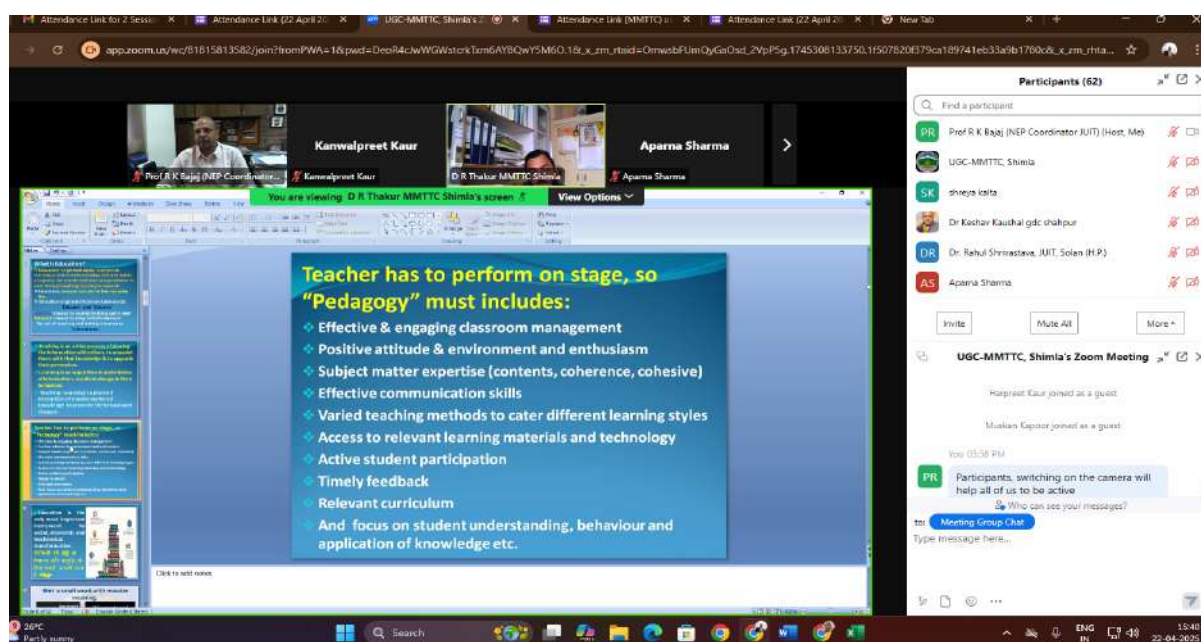
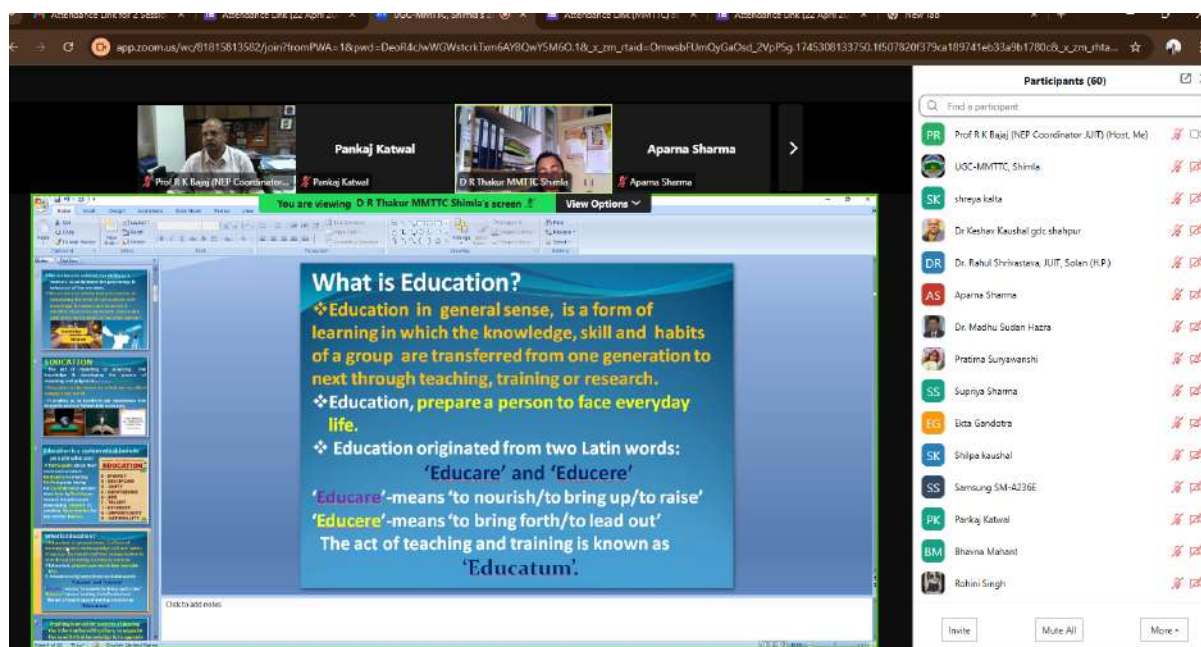


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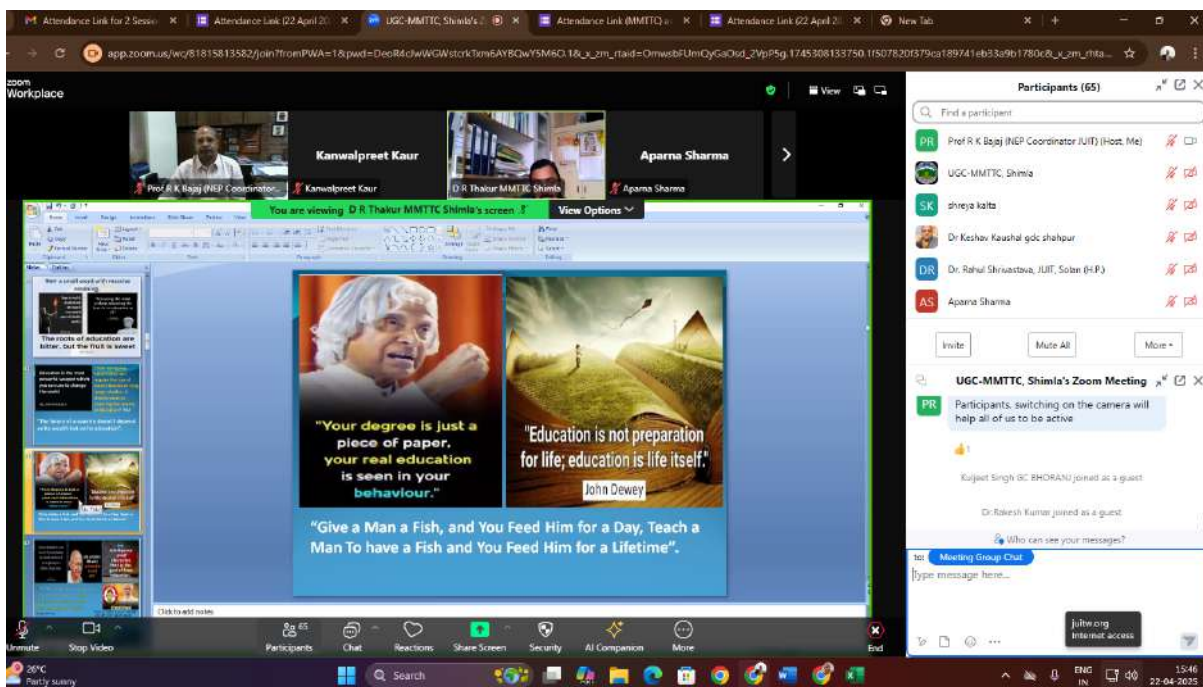
encourage research that has social impact, particularly in the areas of rural development, healthcare, education, and environmental sustainability. In alignment with NEP 2020, Prof. Thakur advocated for the inclusion of Indian languages, indigenous knowledge systems, and culturally relevant content in higher education curricula. He emphasized that a localized and contextualized approach would not only enhance learning outcomes but also empower students to connect with their roots and address local challenges with confidence.

The session concluded with an interactive discussion where participants shared their perspectives on bridging the gap between academia and society. Prof. Thakur's talk was widely appreciated for its clarity, depth, and relevance. It inspired the participants to reflect on their roles as educators and to contribute proactively to building a more just, equitable, and progressive society through the medium of higher education.





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Finally, the session was ended with a heartfelt vote of thanks delivered by **Prof. R.K. Bajaj**, who appreciated **Prof. Thakur** for his valuable time and profound insights.

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Day 2 Report – MMTTP (23rd April 2025)

Resource Person:

Dr. P.C. Abhilash

Institute of Environment & Sustainable Development (IESD), BHU, Uttar Pradesh
pcabilash@hotmail.com; pca.iesd@bhu.ac.in

Dr. P.C. Abhilash, Associate Professor at the Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi. Dr. Abhilash is a respected expert in sustainability science. His research focuses on restoring damaged ecosystems, promoting sustainable agriculture, and using nature-based solutions to achieve the Sustainable Development Goals. He works closely with national and international organizations like IUCN, UNEP, and UNDP, and has received many prestigious awards for his contributions to science and the environment.

Prof. S.S. Kanwar

Department of Biotechnology, HPU, Shimla
callsskanwar@hpuniv.ac.in

Prof. S.S. Kanwar, a distinguished Professor and Chairman of the Department of Biotechnology at Himachal Pradesh University, Shimla. Prof. Kanwar has been a dedicated educator and researcher since 1997. He earned his Ph.D. in Microbiology from PGIMER, Chandigarh, and has guided numerous postgraduate and Ph.D. students in the fields of Biotechnology and Microbiology. His research focuses on microbial enzymes, biocatalysis, and the development of bio-products for health and environmental applications. He has published extensively and holds several patents in these areas.

Session -I (1:30PM -3:00PM) SDGs and Global Sustainability

The second day of the Eight-Day Orientation and Sensitization Programme under the Malaviya Mission Training Programme (MMTTP), organized by Himachal Pradesh University, Shimla, was successfully conducted on **23rd April 2025**, continuing the academic enrichment journey initiated on the first day. The session began with a warm and insightful **welcome address by Ms.**

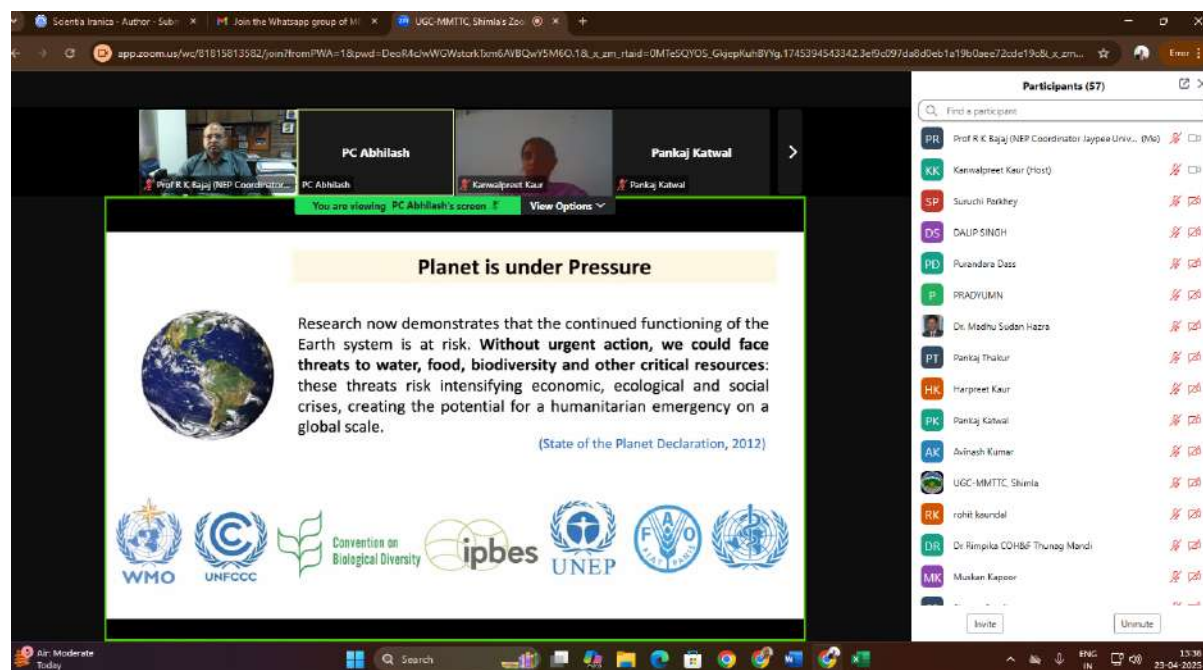


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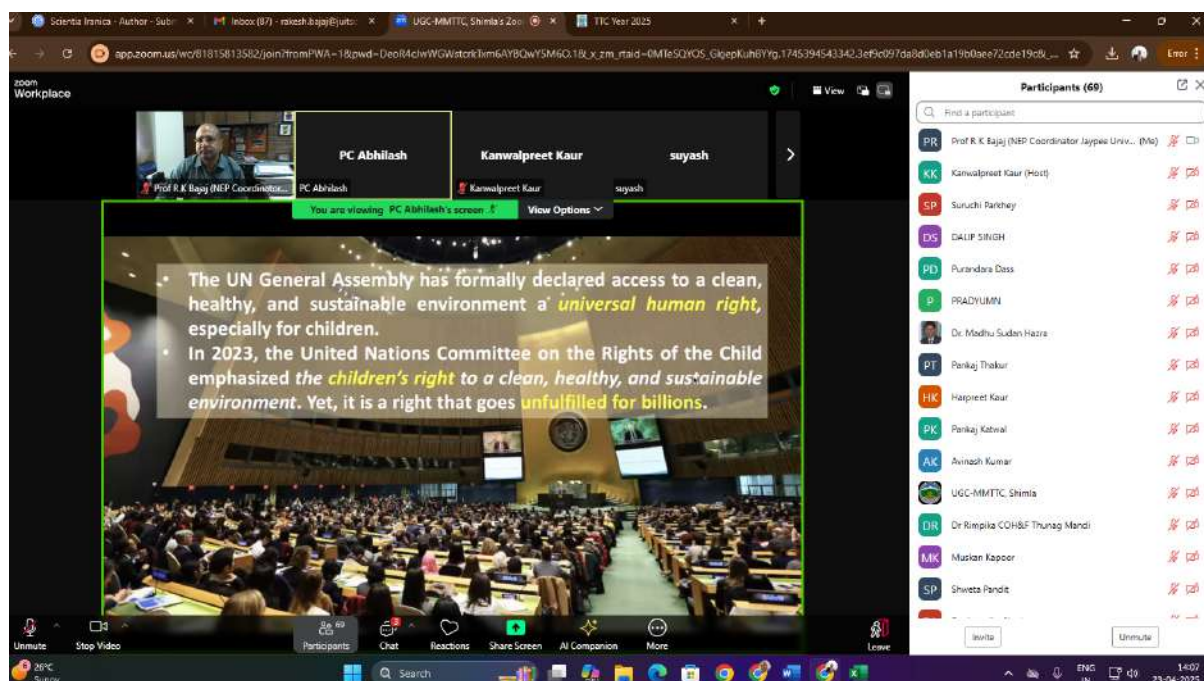
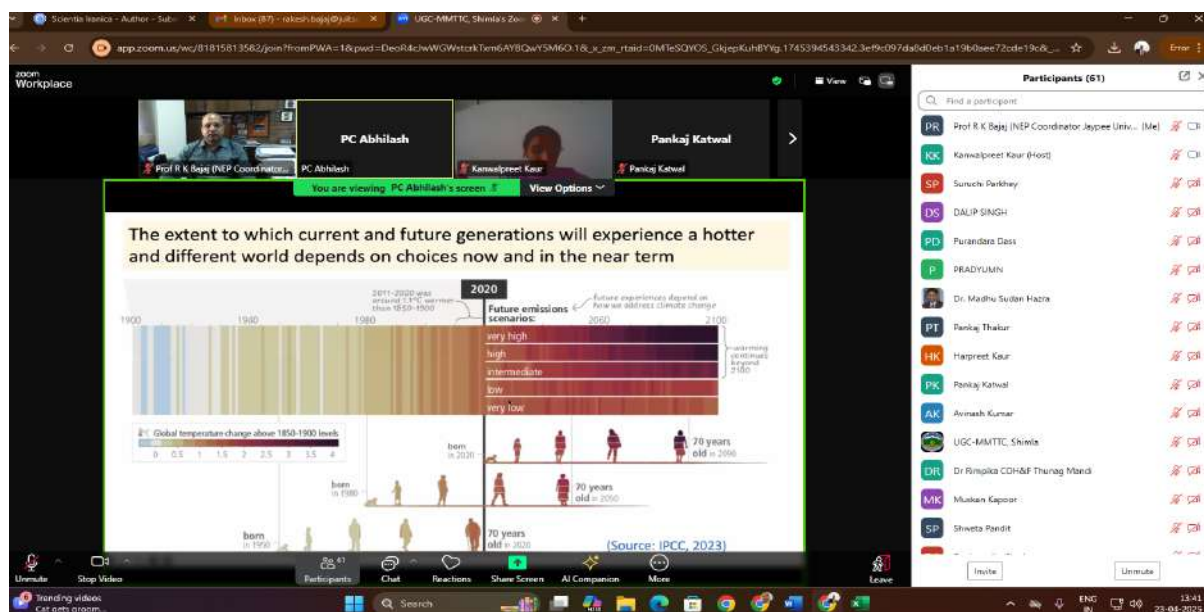
Kanwalpreet Kaur, Research Scholar, Department of Mathematics, Eternal University, Baru Sahib, who welcomed the participants and set the tone for the day. The session was chaired by **Prof. R.K. Bajaj**, UGC-MMTTC Coordinator, who acknowledged the importance of environmental discourse in the context of higher education and policy planning. The day's resource person, **Dr. P.C. Abhilash**, an esteemed Associate Professor from the Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, brought with him vast academic and field experience, which he shared with clarity, conviction, and a deep sense of responsibility. His lecture was focused on the **pressing environmental issues of our times**, covering key areas such as **climate change, ecological degradation, population growth, and the stress on sustainable agriculture**. He systematically examined the root causes and consequences of environmental challenges, emphasizing how modern agriculture, if not managed sustainably, contributes to soil depletion, biodiversity loss, and greenhouse gas emissions.

Dr. Abhilash highlighted how population growth continues to exert immense pressure on natural resources, and how this affects food security, water availability, and public health. He provided a thorough analysis of **current environmental trends**, supported by recent data and international reports, and then transitioned to the importance of **nature-based solutions, green technologies, and integrated ecosystem management**. One of the key aspects of his lecture was linking these real-world issues with the **National Education Policy (NEP) 2020**, where he emphasized the urgent need for institutions of higher education to foster **interdisciplinary learning**, promote **eco-conscious values**, and empower students with the skills needed for sustainable living. He also addressed how educational institutions can become catalysts for change by embedding **sustainability science, community engagement, and policy advocacy** into their academic frameworks. The lecture was highly engaging and interactive, as Dr. Abhilash encouraged active participation and responded thoughtfully to a wide range of questions from attendees. Participants appreciated the clarity, depth, and relevance of his presentation, and many expressed a renewed interest in applying these ideas to their own research and teaching practices. The session concluded with a **heartfelt vote of thanks by Ms. Kanwalpreet Kaur**, who commended **Dr. Abhilash** for his inspiring talk and acknowledged the valuable contribution he made to the programme.





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Session -II (3:00PM -4:30PM) IPR & Patents

The second day of the Eight-Day Orientation and Sensitization Programme under the Malaviya Mission Training Programme (MMTTP), organized by Himachal Pradesh University, Shimla, was held on 23rd April 2025. The welcome address by **Ms. Kanwalpreet Kaur**, She greeted the participants and highlighted the relevance of the day's topic in today's knowledge-driven economy. Following this, **Prof. R.K. Bajaj**, UGC-MMTTC Coordinator, addressed the gathering and emphasized the significance of understanding intellectual property in the academic and research landscape.

The resource person for the day was **Prof. S.S. Kanwar**, Professor and Chairman of the Department of Biotechnology at Himachal Pradesh University, Shimla. Prof. Kanwar is a renowned academician and researcher with expertise in biotechnology, microbial enzymes, and biocatalysis. He delivered an enlightening and comprehensive session on "Intellectual Property Rights (IPR) and Its Role in



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Innovation and Research Commercialization.” His lecture was both informative and highly engaging, drawing from decades of academic and practical experience. The lecture covered the following key areas:

Introduction to Intellectual Property Rights (IPR):

Prof. Kanwar began by explaining the concept of IPR, its importance in safeguarding the creations of the mind, and the various types of IPR recognized globally and in India.

Patents:

He elaborated on the concept of patents, the criteria for patentability, and the process of filing a patent in India. He emphasized the need for researchers to identify novel ideas in their work and protect them legally. He also discussed the advantages of patenting academic research and how it contributes to the economic and academic growth of institutions.

Copyrights:

The session then moved on to copyrights, where Prof. Kanwar explained their relevance for creative works like books, research papers, music, and software. He shared how copyrights protect the expression of ideas and are automatically granted upon creation.

Trademarks:

A particularly interesting segment of the lecture dealt with trademarks. Prof. Kanwar used the iconic Coca-Cola™ brand as an example to explain the role of trademarks in maintaining brand identity and market dominance. He clarified how logos, names, symbols, and even sound marks can be protected under trademark law.

Trade Secrets:

He also touched upon trade secrets as a vital form of intellectual property, particularly in industries where secrecy gives a competitive edge. He used Coca-Cola’s secret recipe as a powerful example of how trade secrets can be protected without filing any public documents.

Case Studies and Examples:

Throughout the lecture, **Prof. Kanwar** used real-world case studies, including the Coca-Cola trademark and various biotechnological patents, to make the concepts more relatable and practical for participants from diverse academic backgrounds.

Relevance to NEP 2020:

He tied the discussion back to the National Education Policy (NEP) 2020, emphasizing how the policy encourages innovation, entrepreneurship, and intellectual property awareness among faculty and students. He urged institutions to establish IP cells and nurture a culture of legal literacy regarding innovation.

Interactive Q&A:

The session concluded with a highly interactive Q&A round where participants enthusiastically asked questions related to plagiarism policies, patent filing steps, institutional support, and minimum originality required for journals and IP filings. Prof. Kanwar addressed each query with precision and encouraged attendees to actively pursue innovation with ethical responsibility.

The lecture was very well-received by the participants, who praised the clarity and practicality of the examples shared. The speaker’s approachable rich knowledge created an environment of active learning and reflection.



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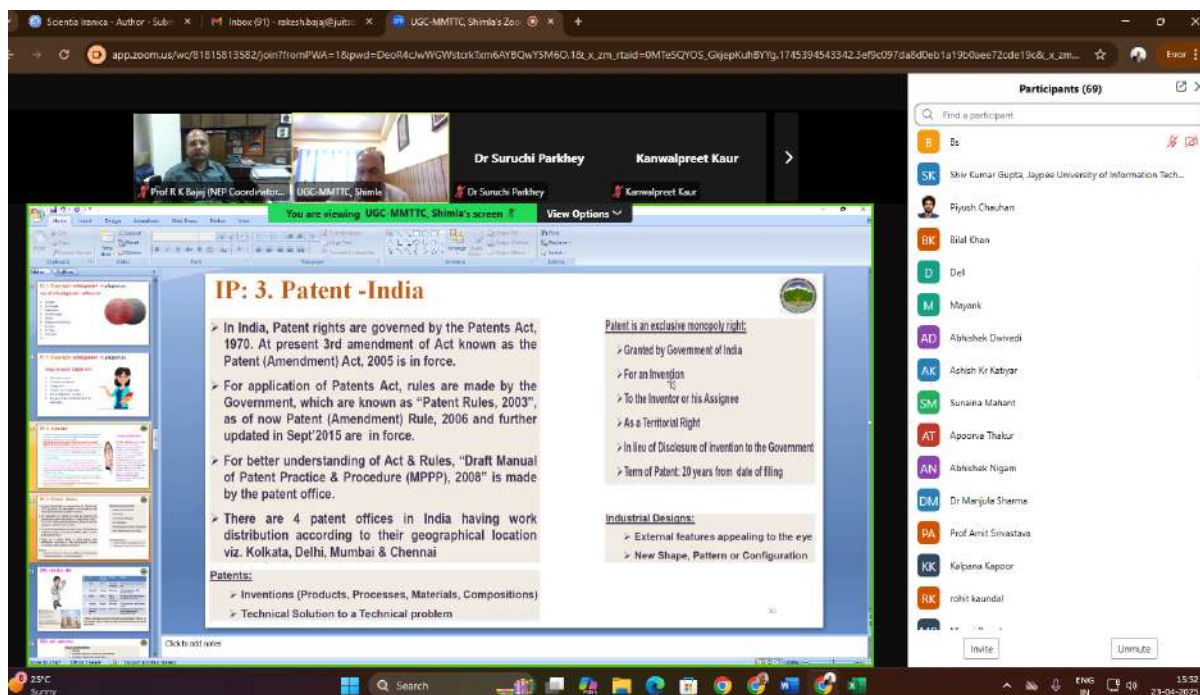


Zoom Workplace interface showing a video conference. The main screen displays a presentation slide titled "Intellectual property [IP]..." with the subtitle "RELATIONSHIP BETWEEN IPRs". The slide includes a diagram showing various types of intellectual property: Patent (lightbulb), Trademark (apple logo), Industrial Design (Coca-Cola bottle), Copyright (book), and Geographical Indication (Champagne). Text on the slide states: "The logo Coca-Cola is an example for TRADE MARK", "Shape of the bottle – an INDUSTRIAL DESIGN", "PATENT may have been obtained in respect of bottling equipment", and "COPYRIGHT – in respect of the text, database or artistic work appearing on its website. i.e. A single product can be protected by more than one IPR." The Zoom interface shows participants in the top right corner, including Prof. R. K. Bajaj (NEP Coordinator Jaypee Univ...), Karanpreet Kaur (Host), Parvinder Dassi, PRADYUMN, Dr. Madhu Sudan Hazra, Pankaj Thakur, Harpreet Kaur, Pankaj Katwal, UGC-MMTTC, Shimla, Shweta Pandit, Jyotsna Bajaj, Jyoti Dewangan, Sonali Rangra, LENOVO, and Pavika Bhardwaj. The bottom status bar shows the time as 15:22 on 23-04-2025.

Zoom Workplace interface showing a video conference. The main screen displays a presentation slide titled "Intellectual property and medical invention(s)..." with the subtitle "TWO VACCINES GET EMERGENCY APPROVAL FOR USE IN INDIA". The slide includes a diagram showing two vaccine bottles labeled COVAXIN and COVISHIELD. Text on the slide states: "United States Patent Granted to Pfizer Inc. for mRNA COVID-19 vaccine", "Nobel Prize goes to scientists behind mRNA Covid vaccines", and "Nobel Prize 2023". The Zoom interface shows participants in the top right corner, including Prof. R. K. Bajaj (NEP Coordinator Jaypee Univ...), Karanpreet Kaur (Host), Parvinder Dassi, PRADYUMN, Dr. Madhu Sudan Hazra, Pankaj Thakur, Harpreet Kaur, Pankaj Katwal, UGC-MMTTC, Shimla, Shweta Pandit, Jyotsna Bajaj, Jyoti Dewangan, Sonali Rangra, LENOVO, and Pavika Bhardwaj. The bottom status bar shows the time as 15:23 on 23-04-2025.



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The session ended with a heartfelt vote of thanks delivered by **Prof. R.K. Bajaj**, and **Ms. Kanwalpreet Kaur** who appreciated **Prof. Kanwar** for his valuable time and profound insights. He also encouraged participants to carry forward the learning by exploring opportunities in their own disciplines to secure and commercialize intellectual property. The report has been compiled and sent to the official email record, and the session stands as one of the most intellectually stimulating segments of the programme so far.

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**Malaviya Mission Training Programme for capacity building of Faculty
Members in Higher Education Institutions (HEI's)**

NEP – 2020

Eight Day Orientation and Sensitization Programme under MMTTP

Academic Leadership, Governance & Management (22nd Apr – 30th Apr 2025)

**Organized by Jaypee University of Information Technology in collaboration with
Himachal Pradesh University, Summer Hills, Shimla (HP)**

Day 3 Report – MMTTP (24th April 2025)

Resource Person:

Dr. Sabu K Thomas
Programme Director, UGC-MMTTC,
University of Calicut, Kerala
sabukthomas@gmail.com

His field of specialization is Taxonomy and Ecology of Dung beetles and Ground beetles. He supervised 17 Ph.D scholars. He Completed 10 major research projects. He has 52 publications in International Scopus/WOS/UGC Care list. He has published 22 research papers. He has undertaken 10 major research projects. He discovered 29 new beetle species. He has become resource person in 31 different academic programmes.

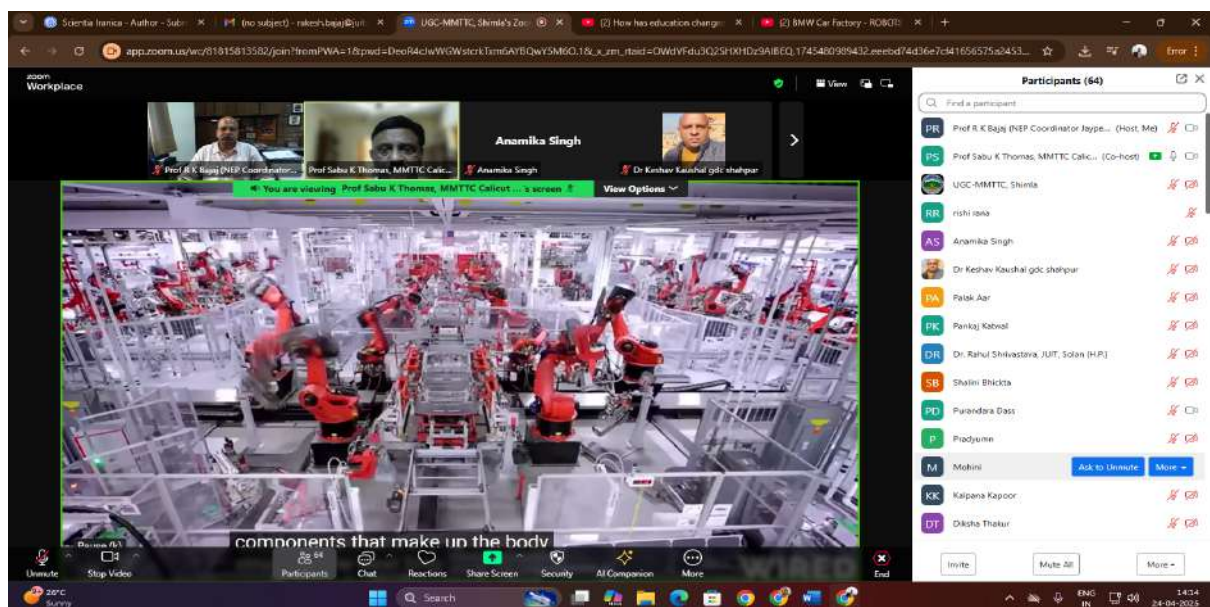
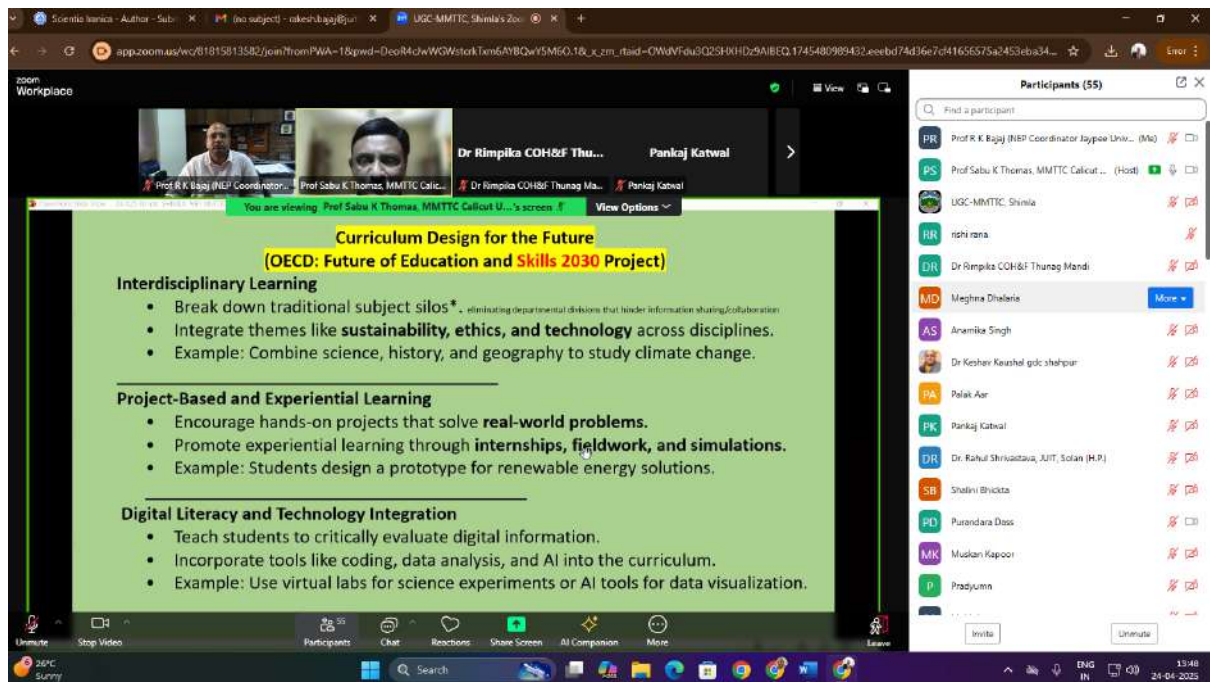
Session -I (1:30PM -3:00PM) Skill Development

The session commenced with a warm welcome of all the participants by Prof Rakesh K Bajaj, NEP Coordinator of Jaypee University and Course Coordinator of the programme and the formal introduction of the resource person by the chairperson, Mr. Pankaj Katwal, Assistant Professor in the Department of Geography, ABV Government College, Naura, District Kangra, Himachal Pradesh. In his opening remarks, Mr. Katwal emphasized the critical importance of skill development in the context of contemporary higher education. He underlined how skill enhancement has become an indispensable component in preparing students for the dynamic and competitive global landscape.

The resource person for the session, Dr. Sabu K. Thomas, brought with him a rich blend of academic knowledge and practical field experience. His insights reflected a perfect synthesis of theory and practice, which he conveyed with remarkable clarity, confidence, and a deep sense of commitment towards the subject. His engaging and thought-provoking session revolved around the broad theme of “Educational Skills” and their growing significance in today’s rapidly changing world. Dr. Thomas began by discussing various facets of educational skills and provided a global perspective on skill development. He presented a comparative analysis of the skill development status of India with that of other leading nations. Drawing attention to the educational reforms undertaken by China, he illustrated how strategic interventions in education can lead to substantial national progress. His observations underscored the urgency for India to revamp its educational strategies to be at par with global standards. The session also included a presentation of trends in the job market, where Dr. Thomas showcased data highlighting the fastest growing as well as the fastest declining jobs in the current scenario. This segment was particularly enlightening as it offered participants a clear vision of where the job market is heading and the skills that are likely to be in demand.

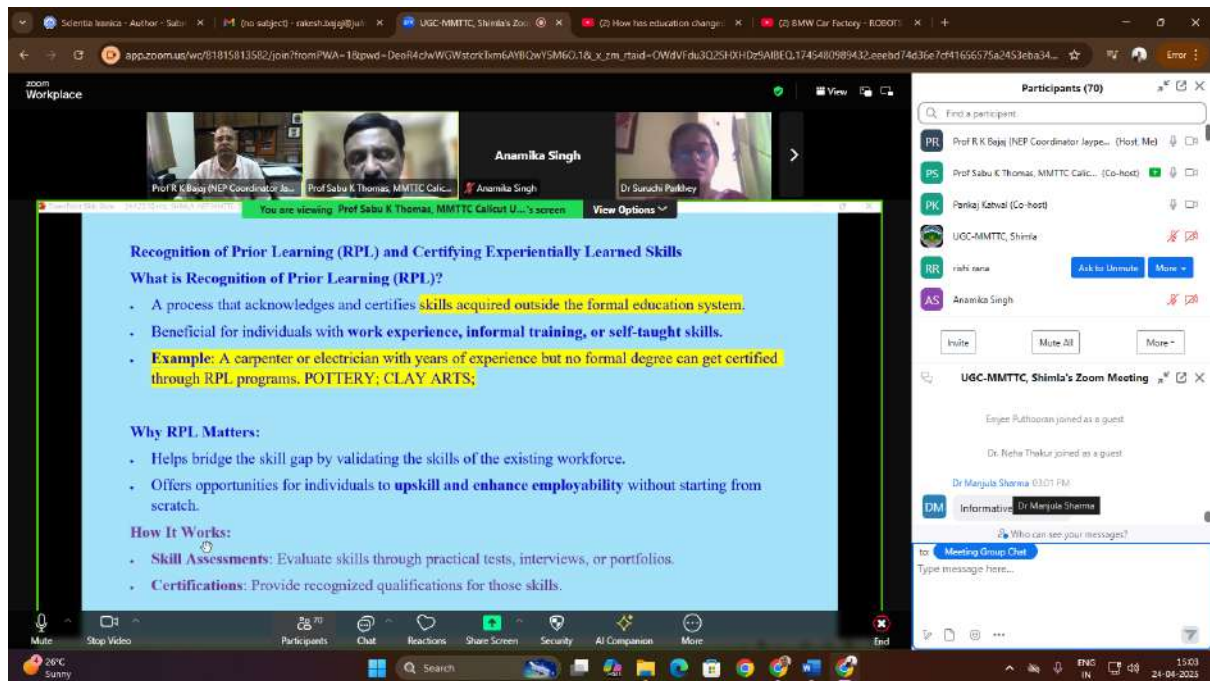
in the near future. He further discussed the relevance of academic tools such as assignments and seminars, stressing how these can serve as effective platforms for skill acquisition and application. One of the most captivating parts of the session was the introduction to Natural Language Processing (NLP). Dr. Thomas provided a simplified explanation of this complex and emerging domain, making it accessible and interesting for all attendees.

Overall, the session was highly informative, inspiring, and aligned with the goals of enhancing education through relevant skills. It motivated all participants to reflect on the evolving role of education in equipping students for the future.





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Session -II (3:00PM -4:30PM) Skill Development (Contd...)

The session provided a comprehensive overview of various dimensions of skill development, with a particular focus on its integration into the educational framework. A major highlight of the session was the detailed explanation of the different levels of the National Skill Qualification Framework (NSQF). The resource person clarified how NSQF serves as a structured mechanism for aligning education and training with the specific skill requirements of various sectors, thereby promoting lifelong learning and career progression.

The speaker also emphasized the significance of the National Education Policy (NEP) 2020, particularly its focus on vocational education and skill integration from an early stage of schooling. He explained how NEP 2020 aims to make education more holistic, flexible, multidisciplinary, and aligned to the needs of the 21st century.

A clear distinction between formal and informal education was drawn, helping participants understand how both systems contribute differently to the learning ecosystem. He elaborated on the interrelated concepts of Ability, Skill, and Competence, clarifying their individual roles and collective impact on professional growth.

One of the most insightful discussions centered around the correlation between life skills and employability. The speaker stressed that attributes like communication, problem-solving, and adaptability are as vital as technical skills for career success.

Skill development in the agricultural sector was illustrated through global examples, with a special emphasis on innovations like Green House Farming. This segment highlighted sustainable farming practices and their growing relevance. The session concluded with an informative discussion on ICT skills, underscoring their importance in today's digital world.



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Zoom Workplace interface showing a presentation slide titled "National Skills Qualification Framework (NSQF) 2023". The slide content includes:

National Education Policy (NEP) 2020: emphasis on making the education more holistic and effective by integration of general (academic) and vocational education while ensuring the vertical and horizontal mobility of students and learners between academic and vocational streams. The NEP 2020, emphasizes upon removing hard distinction between arts, science and commerce; and between curricular, co-curricular and extracurricular activities; and between vocational and general education.

In Simple Terms:

- NSQF organizes learning and skills training to meet job market needs.
- NCrF gives a common credit system for education and skills.
- NCVET ensures the quality and approval of vocational training programs.
- NEP : integration of general (academic) and vocational education

Participants list (71):

- PR Prof R K Bajaj (NEP Coordinator Jaypee... (Host, Me)
- PS Prof Sabu K Thomas, MMTTC Calicut... (Co-host)
- PK Pankaj Kataria (Co-host)
- UGC-MMTTC, Shimla
- richi rana
- AS Anamika Singh
- DR Dr. Rahul Shrivastava, JUIT, Solan (H.P.)
- SB Shalini Bhickta
- P Pradyumn
- KK Kalpana Kapoor
- DT Diksha Thakur
- MP Monika Pathak
- Dr. Madhu Sudan Hazra
- S Sonali Rangra
- SS Supriya Sharma

Zoom Workplace interface showing a presentation slide titled "Leading global exporters of agricultural products (2020)". The slide content includes:

United States

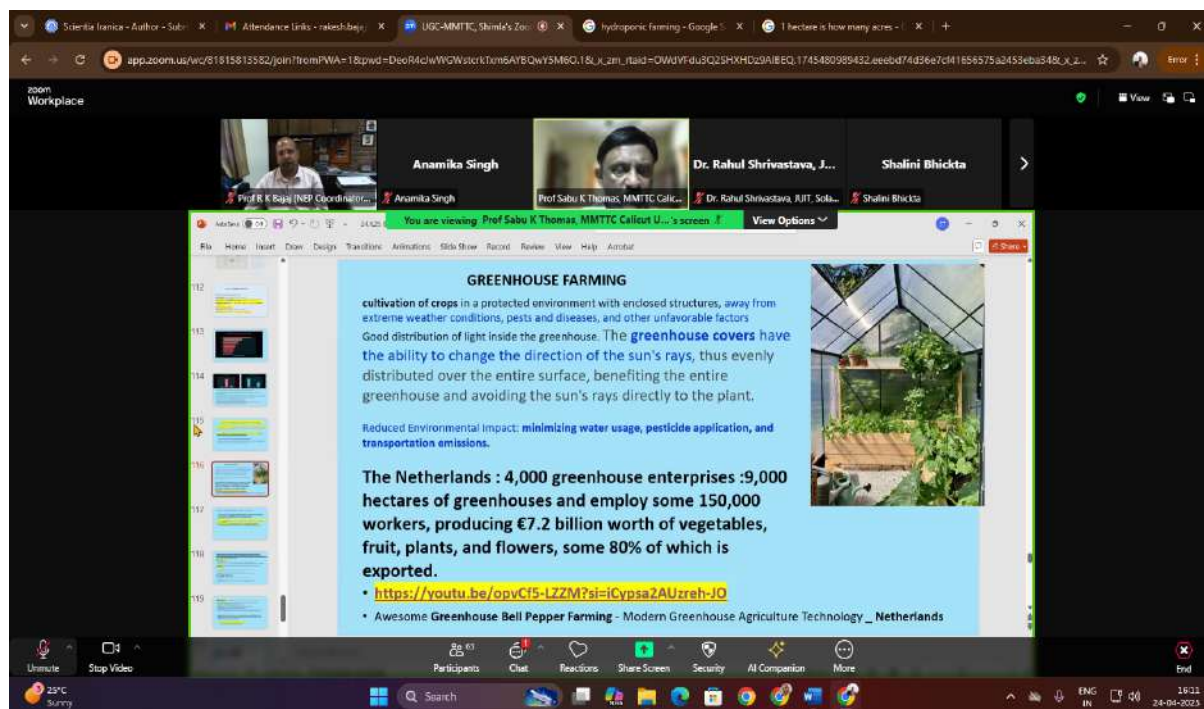
after the United States.

Bar chart showing leading global exporters of agricultural products (2020):

Country	Value (approx.)
United States	\$175
Netherlands	\$125
Brazil	\$100
Germany	\$90
China	\$80
France	\$75
Spain	\$70
Italy	\$65
Canada	\$60
Belgium	\$55



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Overall, both the sessions were very relevant and informative, and we all benefitted a lot from this. The session ended with a vote of thanks delivered by Pankaj Katwal.

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JUIT, Wanknaghat



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NEP – 2020

Eight Day Orientation and Sensitization Programme under MMTTP

Academic Leadership, Governance & Management (22nd Apr –30th Apr 2025)

**Organized by Jaypee University of Information Technology in collaboration with
Himachal Pradesh University, Summer Hills, Shimla (HP)**

Day 4 Report – MMTTP (25th April 2025)

Resource Persons:

Prof. Sunil Kumar Khah

Dean (Accreditation) and Controller of Examination, JUIT, Wagnaghat

Prof. Sunil Kumar Khah is currently serving as Professor & Dean (Accreditation) and Controller of Examination at Jaypee University of Information Technology (JUIT), Wagnaghat. With over 26 years of academic and administrative experience, he has made significant contributions to both teaching and institutional governance. He holds a B.Sc. in Electronic Sciences from Kashmir University and earned his M.Sc., M.Phil., and Ph.D. from Agra University. He also completed postdoctoral research in high-power microwave components at the Institute for Plasma Research (DAE Institute). He has authored over 50 research papers in reputed international journals and led two government-sponsored projects in the domain of microstrip antenna design. He is a patent holder, has guided Ph.D. and M.Tech students, and previously served as an Adjunct Faculty at the University of Dayton, USA. At JUIT, he also leads the Internal Quality Assurance Cell (IQAC) and is a member of the Academic Council. He is a Senior Member of IEEE and currently serves as Chairman of the Himachal Chapter of MRSI. His research interests include modelling and design of microstrip structures like antennas and filters.

Prof. P.B. Barman

Head, Department of Physics and Material Science, JUIT, Wagnaghat

Prof. P.B. Barman is the Head of the Department of Physics and Materials Science at Jaypee University of Information Technology, Wagnaghat. He completed his Ph.D. in Physics (Materials Science) from IIT Kharagpur in 1993 and pursued postdoctoral research from Microelectronics Centre, IIT Kharagpur and Materials Science and Engineering, Arizona State University, USA. His research focuses on Bulk crystal growth of III-V compound semiconductors and Chalcogenide glasses, Thin film growth, Oxidation studies of III-V compound semiconductors, Device fabrication and characterization, Chalcogenide glasses; bulk, films and nano films, Nano hexa-ferrites, etc. He has taught and collaborated internationally, serving as a Visiting Faculty at Multimedia University, Malaysia. He currently holds the position of General Secretary of the Himachal Chapter of the Materials Research Society of India (MRSI). His extensive academic and research experience has significantly contributed to building research infrastructure and mentoring young researchers in the field of material science.



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Session -I (1:30PM -3:00PM) Accreditation and Excellence in HEIs

The fourth day of the Eight-Day Orientation and Sensitization Programme under the Malaviya Mission Training Programme (MMTTP), organized by Himachal Pradesh University, Shimla, was successfully conducted on **25th April 2025**. The session began with a warm welcome address by **Prof. R.K. Bajaj**, UGC-MMTTC Coordinator, who welcomed the participants and highlighted the significance of accreditation and excellence in higher education **institutions**. He emphasized the evolving educational landscape and the need for institutions to align with quality standards and transformative reforms. The session was also chaired by **Prof. R.K. Bajaj**, who ensured a smooth flow of proceedings. Following the welcome, **Ms. Palak Aar**, Assistant Professor, Department of CSE & IT, Jaypee University of Information Technology, Wagnaghat, introduced the esteemed resource person, **Prof. Sunil Kumar Khah**, and provided a brief overview of his academic and administrative accomplishments. The session officially commenced with **Prof. Khah's presentation on "Accreditation and Excellence in HEIs,"** setting a strong foundation for the day's deliberations. Prof. Khah delved into the **importance of accreditation** in enhancing the quality and accountability of higher educational institutions (HEIs). He elaborated on frameworks like **NAAC** and **NBA**, describing them as catalysts for continuous institutional development. He emphasized how outcome-based education, internal benchmarking, and periodic assessments contribute to long-term academic excellence. Transitioning to **NEP 2020**, he provided a comprehensive overview of the policy's vision, stressing the shift towards **multidisciplinary learning, holistic education, and skill integration**. He emphasized on the role of institutional autonomy, faculty empowerment, and digital integration as essential drivers of change. Prof. Khah also outlined the alignment between accreditation standards and NEP objectives, urging institutions to adopt a proactive and systematic approach toward quality enhancement. His insights into strategic planning, data management, and institutional reforms were particularly valuable for participants involved in academic administration and policy implementation. The session concluded with a highly engaging Q&A round where participants asked insightful questions related to accreditation criteria, implementation strategies for NEP 2020, and institutional practices for quality assurance. Prof. Khah responded to each query with clarity and depth, drawing from his rich administrative and academic experience. The participants appreciated the speaker's practical insights, especially on the operational aspects of accreditation and the integration of NEP principles. His clear articulation and deep understanding of the subject created an environment of active engagement and meaningful dialogue. Finally, **Ms. Palak Aar** extended a heartfelt **vote of thanks**, appreciating Prof. Khah for his valuable contributions and thought-provoking presentation. She also acknowledged the active participation of attendees and expressed gratitude to **Prof. R.K. Bajaj** for chairing the session.



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Workplace Meeting Sunil Kumar Khah's screen Sign in View

Pankaj Katwal Dr. Rameela COH...



Accreditation and Excellence in HEI

Sunil Kumar Khah
Dean (Accreditation)
Jaypee University of Information Technology
Waknaghat

Participants Chat Share All Computer Apps More

Pankaj Katwal Dr. Rameela COH...



Excellence

Excellence

- 01 Students Support
- 02 Staff
- 03 Governance
- 04 Impact on Society
- 05 Placement
- 06 Academics
- 07 Research

9

Pankaj Katwal Dr. Rameela COH...



NAAC Criteria's

- #1 Curricular Aspects
- #2 Teaching, Learning And Evaluation
- #3 Research, Innovation, And Extensions
- #4 Infrastructure And Learning Resources
- #5 Student Support And Progression
- #6 Governance, Leadership, & Management
- #7 Institutional Values & Best Practices

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Session -II (3:00PM -4:30PM) Research and Development

The second session began with a warm welcome address by **Prof. R.K. Bajaj**, UGC-MMTTC Coordinator, who welcomed the participants and highlighted the importance of **research and development for holistic development**. He underscored the vital role of research in shaping the academic and societal impact of HEIs and emphasized the need for integrated, interdisciplinary, and innovation-driven approaches. The session was also chaired by **Prof. R.K. Bajaj**, who ensured a seamless flow of the event.

Following the welcome, **Ms. Palak Aar**, Assistant Professor, Department of CSE & IT, Jaypee University of Information Technology, Wagnaghat, introduced the distinguished resource person, **Prof. P.B. Barman**, and shared a concise overview of his academic journey and research contributions. The session officially commenced with **Prof. Barman's presentation on "Research and Development,"** marking the beginning of an insightful and intellectually stimulating discourse. In his lecture, Prof. Barman underscored the importance of adopting a **holistic perspective** in research and development across higher education institutions. He emphasized that true innovation stems from interdisciplinary collaboration, integrated learning, and a long-term commitment to societal advancement. By aligning research initiatives with national priorities, sustainability goals, and the vision of **NEP 2020**, institutions can drive more impactful and inclusive growth.

He discussed how holistic R&D goes beyond technical excellence—it involves ethical responsibility, stakeholder engagement, and the development of solutions that are both innovative and sustainable. The session addressed challenges such as resource limitations, fragmented academic silos, and lack of long-term vision in research ecosystems. Prof. Barman proposed actionable strategies to overcome these, including enhanced collaboration across disciplines, continuous capacity building, and strategic policy alignment. The discussion also highlighted the critical role that educational institutions play in shaping a research culture that is not just output-driven, but purpose-driven—fostering curiosity, resilience, and real-world impact. His talk resonated strongly with the audience, particularly in the way it connected the institutional development goals of NEP with ground-level academic practices. The session was interactive, well-paced, and intellectually stimulating. The session concluded with an **interactive Q&A round**, where participants actively engaged with the speaker, asking questions on the strategies for fostering interdisciplinary research, the role of higher education institutions in promoting innovation, and the alignment of R&D activities with industry needs. Prof. Barman responded to each query with great insight, offering practical advice based on his experience in both academia and industry. Finally, **Ms. Palak Aar** delivered a sincere **vote of thanks**, expressing gratitude to Prof. Barman for his enriching and insightful lecture. She also thanked the participants for their active involvement and extended appreciation to **Prof. R.K. Bajaj** for chairing the session.

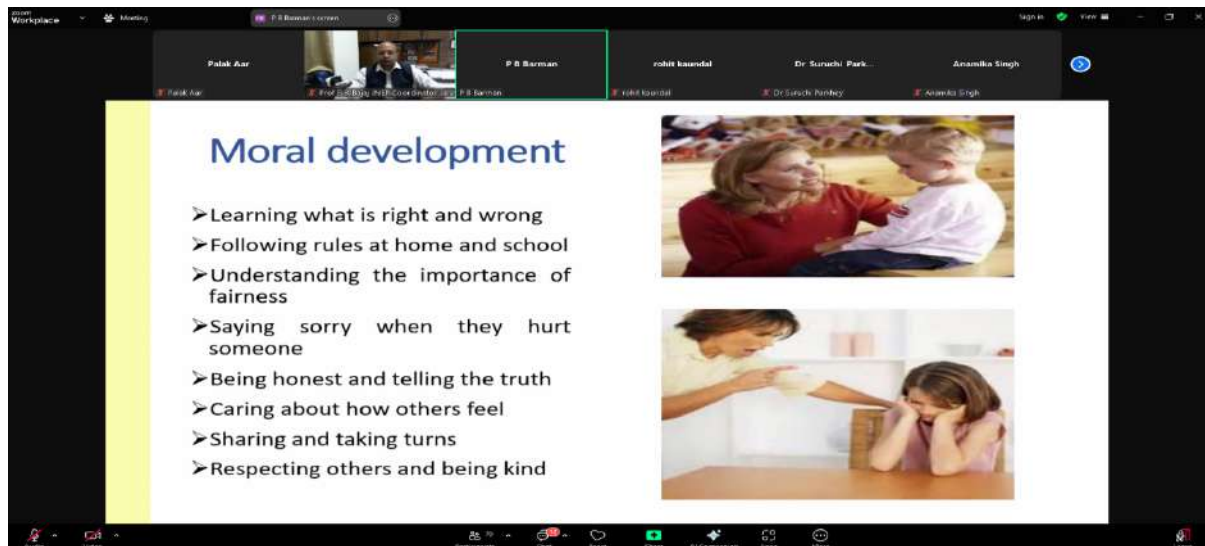


Components of holistic development

- Physical development
- Social development
- Cognitive development
- Emotional development
- Moral development
- Intellectual development
- Spiritual development
- Academic development




The diagram shows four overlapping circles: Physical (blue), Social (yellow), Emotional (orange), and Spiritual (red). The intersections represent the holistic development of an individual.

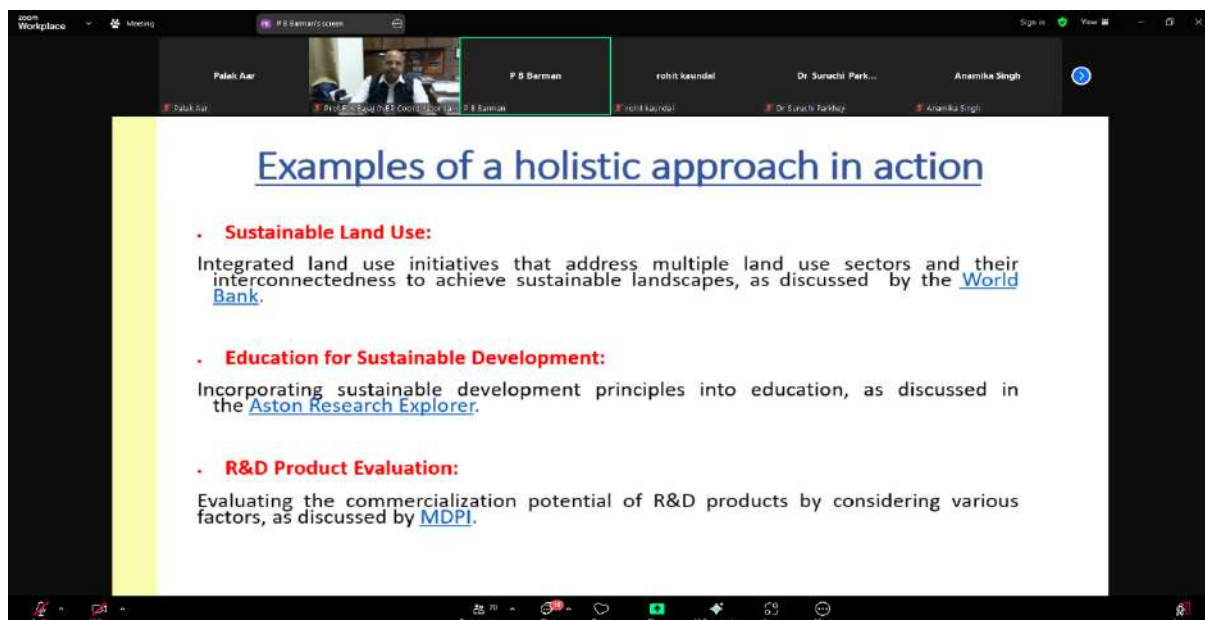


Moral development

- Learning what is right and wrong
- Following rules at home and school
- Understanding the importance of fairness
- Saying sorry when they hurt someone
- Being honest and telling the truth
- Caring about how others feel
- Sharing and taking turns
- Respecting others and being kind



The top photograph shows a boy and a girl sitting at a table, looking at each other. The bottom photograph shows a girl sitting at a desk, looking down at a book or paper.



Examples of a holistic approach in action

- **Sustainable Land Use:**
Integrated land use initiatives that address multiple land use sectors and their interconnectedness to achieve sustainable landscapes, as discussed by the [World Bank](#).
- **Education for Sustainable Development:**
Incorporating sustainable development principles into education, as discussed in the [Aston Research Explorer](#).
- **R&D Product Evaluation:**
Evaluating the commercialization potential of R&D products by considering various factors, as discussed by [MDPI](#).



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Day 5 Report – MMTTP (26th April 2025)

Resource Persons:

Prof. Rajesh Kumar Jha, D 723, Rudra Towers, Sunderpur, BHU, Varanasi.

Address : Dept. of Philosophy & Religion, Faculty of Arts, B.H.U., Varanasi, INDIA 221005.

Prof. R. K. Jha is a distinguished scholar in the Department of Philosophy and Religion at Banaras Hindu University, Varanasi. He holds an M.A., M.Phil., and Ph.D. in Philosophy from the University of Delhi, where he was awarded the Gold Medal in M.A. Philosophy in 1990. He was also the recipient of the prestigious Jawaharlal Nehru Memorial Doctoral Fellowship at Teen Murti House, New Delhi. Prof. Jha began his academic career as a Lecturer in the Department of Philosophy at Zakir Husain College, University of Delhi (1997–2003), and subsequently served at North Eastern Hill University, Shillong (2003–2004). He joined Banaras Hindu University in 2004 and has been serving as a Professor of Philosophy since 2012. His areas of interest include Advaita Vedānta, Tantric Philosophy, and Bhakti traditions. He is the author of two notable books: *The Advaitika and Tantrika Philosophy of Sankara* (2023) and *The Message of Kabira's Bijaka* (2024), both published by BlueRose Publishers and available on Amazon and Flipkart.

Prof. Sarika Sharma

Department of Teacher Training and Non Formal Education, Faculty of Education, JMI, New Delhi.

Professor Sarika Sharma is presently working as Professor in Department of Teacher Training and Non Formal Education, Jamia Millia Islamia, New Delhi. Prior to this position she was working at Central University of Haryana. She has rich and varied academic experience as seasoned faculty member and sound administrative experience. She served as Head Department of Teacher Education and Dean, School of Education. Prof. Sarika was Director IQAC and served as Registrar of Central University of Haryana. Prof. Sarika has served as proctor, hostel warden and Chairperson of internal complaint committee of the university. She served as a member of University Court, Executive Council and Academic Council for last ten years. For continues ten years she has worked for the Cell, Person with Disabilities. She is having teaching experience of 23 years. She has delivered a large number of lectures at National and International platform. She has written more than 60 papers in UGC listed and indexed journal. In addition to it, she has developed three psychological standardized



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test which was published by an international publisher. Besides this she has guided several research Scholars. She has also developed MOOCs on “Personal emotional development and counselling” which was hosted on UGC SWAYAM platform as Annual Refresher Programme in Teaching (ARPIT). Prof. Sarika was conferred as twice best researcher award in Social Sciences by Central University of Haryana in the year 2019 and 2022. Prof. Sarika has visited Singapore for academic purpose; Leadership for Academician Programme. The current topic of lecture is relevant to her expertise in the area.

Session -I (1:30PM -3:00PM) Values, Morality & Ethics: Concept & Significance

The session commenced with a warm welcome of all the participants and resource persons by Prof Rakesh K Bajaj, NEP Coordinator of Jaypee University and Course Coordinator of the programme.

As part of the Eight-Day NEP 2020 Orientation and Sensitization Programme organized by UGC-MMTTC, Himachal Pradesh University, Shimla, a highly engaging and thought-provoking lecture was delivered by Prof. Rajesh Kumar Jha on April 26, 2025. The topic of the session was "Values, Morality & Ethics: Concept & Significance," which directly aligns with the National Education Policy 2020's vision of transforming the Indian education system into a more holistic, learner-centered, and value-driven model.

Prof. Jha began by highlighting that values and ethics are not optional add-ons but integral to a meaningful and complete education. Drawing from both classical Indian knowledge systems and contemporary global educational philosophies, he emphasized that education must aim not only at intellectual development but also at nurturing responsible, empathetic, and morally grounded individuals. He stated that NEP 2020 lays strong emphasis on the inculcation of constitutional values, integrity, scientific temper, and a sense of social responsibility in learners. The lecture elaborated on the concepts of morality and ethics, drawing distinctions between the two while also emphasizing their interdependence. Prof. Jha discussed the significance of internalizing values like honesty, compassion, respect, and responsibility, which form the ethical backbone of a democratic and inclusive society. He underlined that moral education must move beyond rote instruction and should be embedded in the learning environment through experiential learning, discussion-based pedagogies, storytelling, and community engagement.

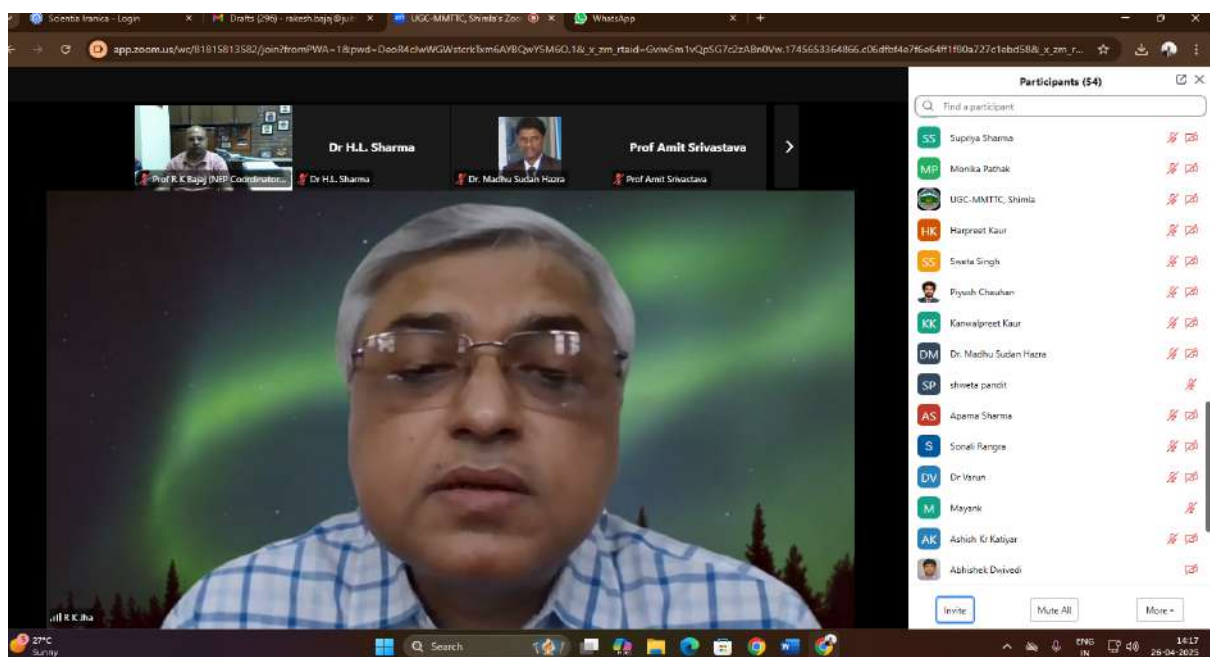
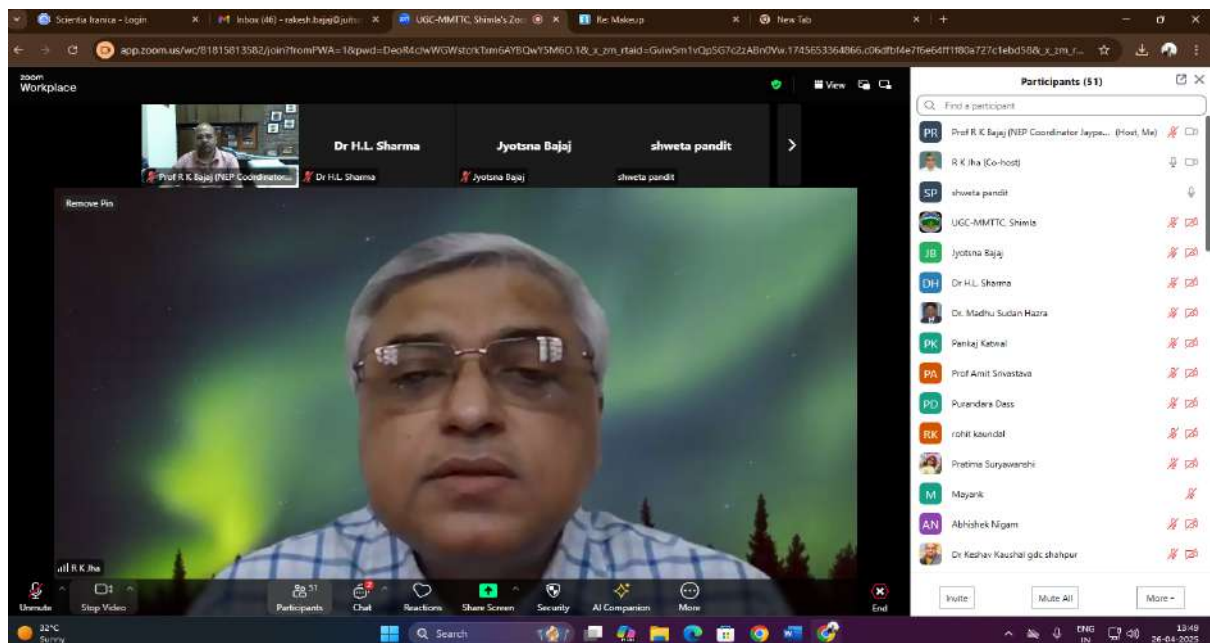
He further stressed the importance of teachers as role models, whose conduct profoundly influences the value system of students. The creation of a value-oriented institutional culture, according to Prof. Jha, is crucial for long-term social transformation. He also encouraged the adoption of reflective practices and ethical reasoning across disciplines, suggesting that moral development should be seen as a cross-cutting goal rather than a separate educational objective.



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The session was interactive, with participants reflecting on their roles as educators in fostering ethical awareness. Prof. Jha's insights were both philosophical and practical, and his call for integrating moral education in line with NEP 2020 goals resonated strongly with the audience. In conclusion, the lecture offered deep insights into the ethical dimensions of education and underscored the transformative potential of value-based learning. It served as a timely reminder that true education must nurture both the mind and the character of learners.





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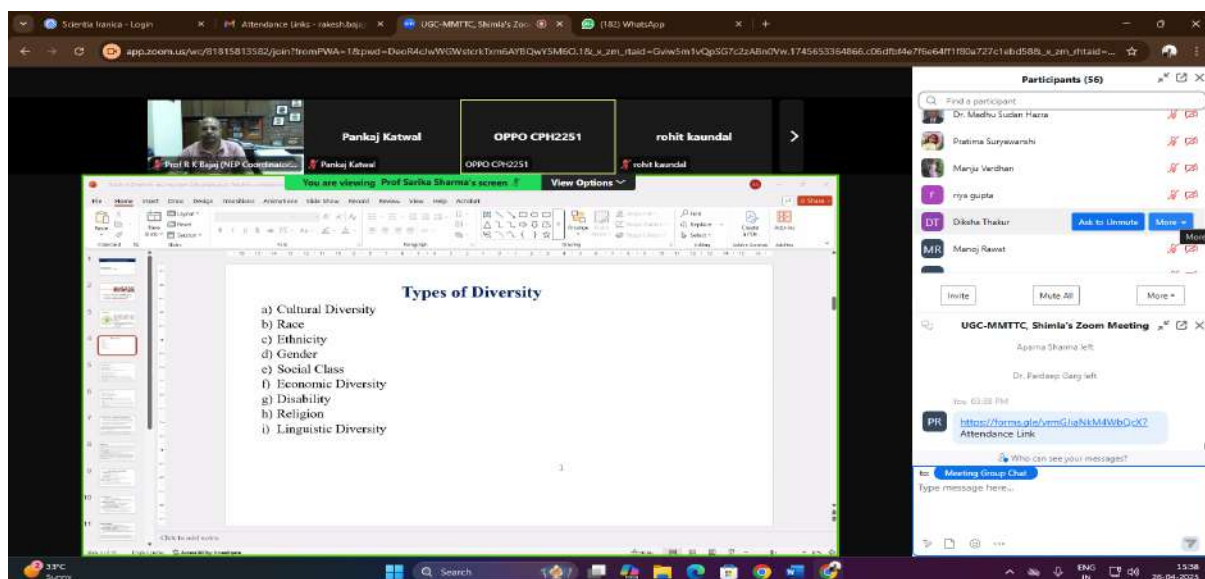


Session -II (3:00PM -4:30PM) Student Diversity & Inclusive Education

Prof. Sarika Sharma began the session by contextualizing the concept of diversity within the Indian education system. She emphasized that student diversity encompasses a wide range of differences including linguistic, cultural, socio-economic, gender, and cognitive diversity. A particularly significant component of this diversity is the inclusion of students with disabilities, who have historically been marginalized in mainstream education.

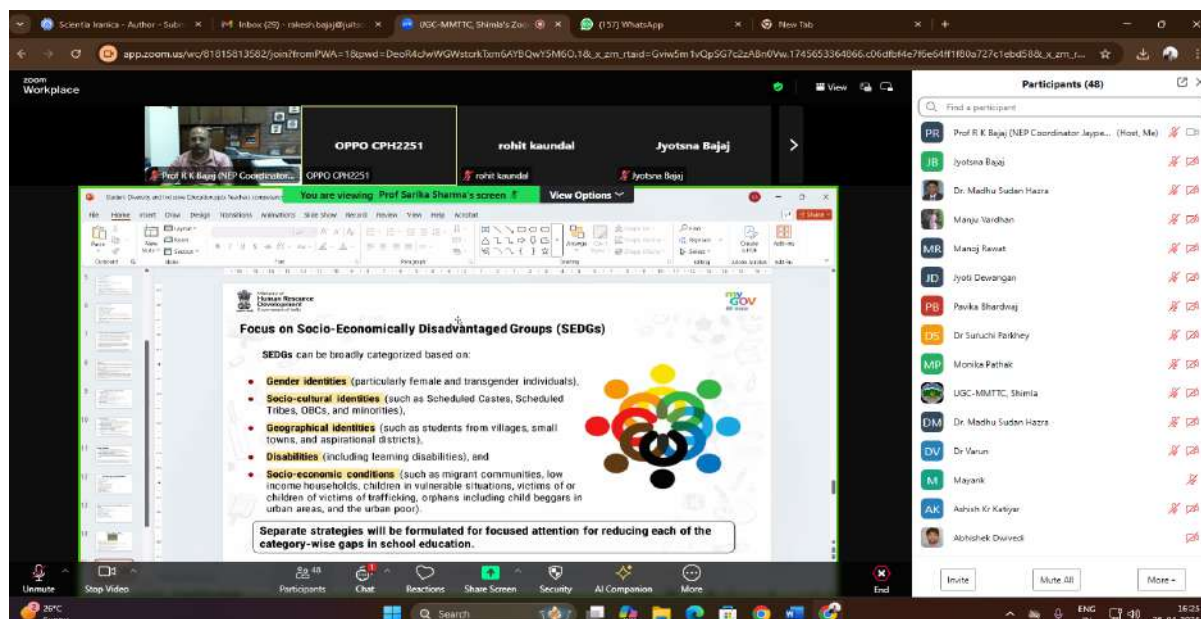
Highlighting the provisions of NEP 2020, Prof. Sharma pointed out that the policy strongly advocates for an inclusive education system that accommodates the needs of all learners, including those with disabilities. She elaborated on the policy's recommendations such as barrier-free access to school infrastructure, use of assistive technologies, flexible curricula, and training of teachers in inclusive pedagogies. She stressed that the aim is not only physical integration but also academic and social inclusion. Prof. Sharma emphasized the role of Universal Design for Learning (UDL) in creating an inclusive educational environment. She explained how UDL principles can help in designing learning experiences that are accessible and beneficial for all students, including those with sensory, mobility, and learning disabilities. The lecture also included real-life examples and case studies that illustrated successful inclusive practices from Indian and international contexts.

She urged educators to adopt a mindset that respects diversity and upholds the dignity of every learner. Teacher sensitization, curriculum adaptations, collaborative teaching, and peer support mechanisms were highlighted as practical strategies to promote inclusion. She also discussed the importance of policy implementation at the grassroots level and the need for continuous support systems for both students and educators. Prof. Sharma's lecture was well-received and resonated deeply with participants, especially in light of the NEP 2020's vision of equity and inclusion. The session provided both philosophical grounding and actionable strategies to advance inclusive education, particularly for differently-abled students, making it a vital contribution to the programme.





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Overall, both the sessions were very relevant and informative, and we all benefitted a lot from this. The session ended with a vote of thanks delivered by Prof. Rakesh K Bajaj.

NEP Cell,
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**Malaviya Mission Training Programme for capacity building of Faculty Members
in Higher Education Institutions (HEI's)**

NEP – 2020

Eight Day Orientation and Sensitization Programme under MMTTC

Academic Leadership, Governance & Management (22nd Apr –30th Apr 2025)

**Organized by Jaypee University of Information Technology in collaboration with
Himachal Pradesh University, Summer Hills, Shimla (HP)**



Day 6 Report – MMTTP (28 April 2025)

Resource Person:

Session – I: Prof. Sunil Kumar

**Professor, Department of Animal Sciences, School of Life Sciences, Central University of
Himachal Pradesh, Dharamshala at Shahpur, Kangra (H.P.) India Mobile: 94180-50067
E-mail: sunilibes@gmail.com & sunilibes@hpcu.ac.in**

Prof. Sunil Kumar has held various significant administrative roles at the Central University of Himachal Pradesh. He has served as the Dean of Students' Welfare since December 11, 2023, and as the Dean of the School of Life Sciences since May 17, 2023. He has also been the Head of the Department of Animal Sciences since October 16, 2019. Additionally, Prof. Kumar has held the position of Director of the Research and Development Cell at the university from December 22, 2022, to December 6, 2023, and served as the Proctor of the university from March 2, 2021, to December 6, 2023. He is a member of the Executive Council of the university and holds a Doctor of Philosophy (Ph.D.) in Entomology and Apiculture from Dr. Y.S. Parmar University of Horticulture and Forestry, where he also earned his Master of Science in the same field.

In terms of academic achievements, Prof. Kumar has an impressive body of work with 101 research articles published, three patents granted, two books published, and 15 book chapters. He has actively contributed to academic communities through research papers presented at conferences and symposia, TV and radio talks, and guest lectures delivered at various institutions. Prof. Kumar has also organized four seminars, conferences, or symposia and has attended six training workshops. He has guided 43 M.Sc. students and supervised two Ph.D. theses.



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His exemplary contributions were recognized with the Best Researcher Award from the Central University of Himachal Pradesh for the year 2022-23. Additionally, he earned distinctions, receiving the "Top Two Achiever Award" for 1994-1995 from the PSSCIVE Foundation. Prof. Kumar's teaching and research experience spans 18 years, with several merit scholarships during his academic career.

Session – II: Prof. Maitreyee Dutta

National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh,
maitreyee@nitttrchd.ac.in

Dr. Maitreyee Dutta graduated in Electronics and Communication Engineering from Guwahati University in 1993, earning the Gold Medal as the top student of her batch. She completed her M.E. from Punjab Engineering College in 1999 through a GATE Scholarship and obtained her Ph.D. from Punjab University in 2007. Dr. Dutta joined the National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh in 2001, where she later became the Head of the Computer Science Department (2003) and Professor and Head of the Electronics and Communication Engineering Department (2015-2017). She led several initiatives, including securing projects from the Ministry of IT and the Ministry of Social Justice, as well as grants from AICTE for FDPS, ATAL Programmes, and conferences. Dr. Dutta established a Cyber Security Lab and guided 11 Ph.D. students, with five currently in progress.

She has been recognized for her contributions, receiving the Rota Women Distinction Award in 2013 for her free courses for underprivileged students and the Best Teacher Award from Bharatiya Shikshan Mandal in 2013. She initiated robotics projects, leading students to participate in competitions at IITs and other universities. Dr. Dutta also established an Innovation Laboratory and a Start-Up named Enovate Skill. Additionally, she coordinated 11 MOOC courses and 2 ARPIT courses, including three AICTE-NITTTR modules. As of now, she has published 150 papers and four books. Dr. Dutta currently serves as a Professor in the Information Management and Emerging Engineering Department and was the Dean of Academics and R&D at NITTTR Chandigarh for 2 years and 8 months.

Session -I (1:30PM -3:00PM) Curriculum Development, Pedagogy and Assessment

The 6th day of the Eight-Day Orientation and Sensitization Programme under the Malaviya Mission Training Programme (MMTTP), organized by Himachal Pradesh University, Shimla, was successfully conducted on **28 April 2025**. The session began with a warm and insightful **welcome address by Prof. Rahul Shrivastava**, Professor, Department of Biotechnology and Bioinformatics, at Jaypee University of Information Technology, Wagnaghat, Solan, who welcomed the participants and set the tone for the day. The day's resource person, **Prof. Sunil Kumar** Professor, from the Department of Animal Sciences, School of Life Sciences, Central University of Himachal Pradesh, Dharamshala at Shahpur, Kangra (H.P.), His lecture was focused on the **Curriculum Development, Pedagogy and Assessment**.

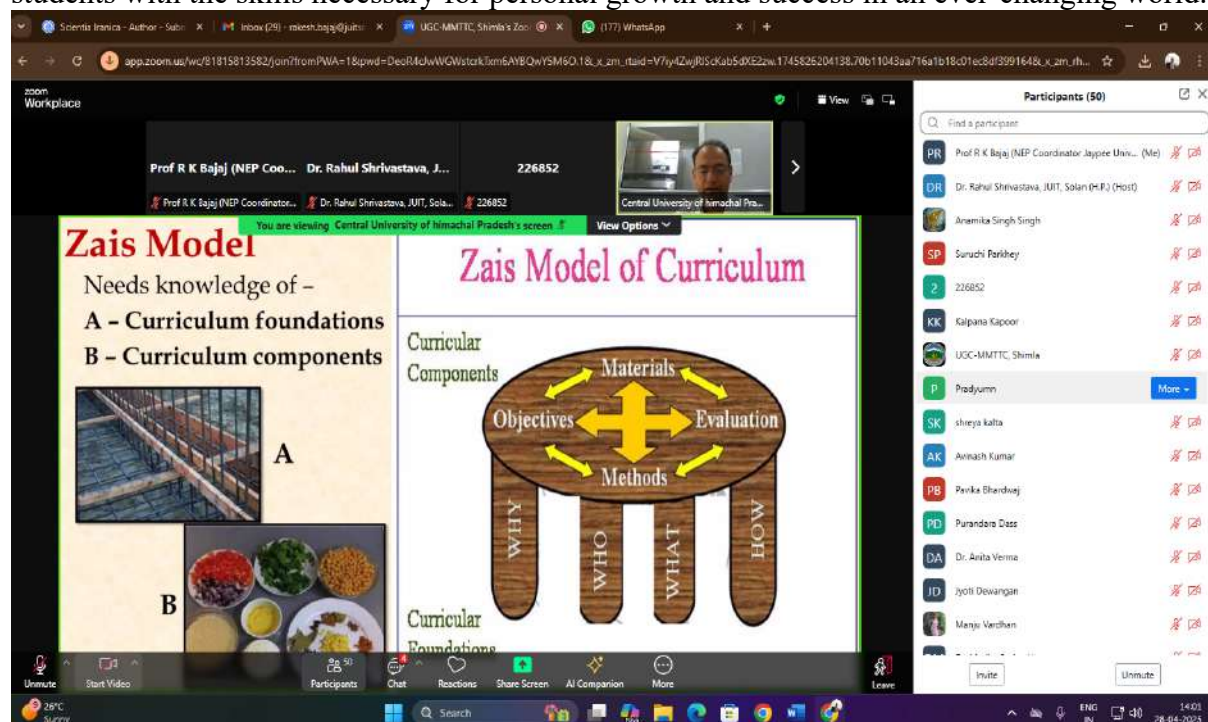
Prof. Sunil Kumar discussed how The National Education Policy (NEP) 2020 is set to bring a transformative approach to India's education system, focusing on curriculum development, pedagogy, and assessment to foster holistic, inclusive, and flexible learning.

Curriculum Development: NEP 2020 emphasizes a flexible, multidisciplinary curriculum that integrates science, arts, sports, and languages, allowing students to explore connections between subjects. The policy also aims to make education contextually relevant by incorporating local knowledge and regional languages, ensuring that both urban and rural students are represented. Additionally, it encourages the integration of vocational education and skill development, making students industry-ready alongside academic proficiency.

Pedagogy: NEP 2020 advocates for active, student-centric learning, where teachers act as facilitators rather than information providers. It promotes methods like project-based, inquiry-based, and collaborative learning, encouraging students to take responsibility for their education. Teachers are encouraged to integrate technology into their practices, supporting both traditional and digital learning environments. Furthermore, the policy highlights the importance of socio-emotional learning (SEL) to foster emotional intelligence and resilience in students, ensuring well-rounded development.

Assessment: The policy shifts from traditional high-stakes exams to continuous, competency-based assessments that focus on a student's understanding and application of knowledge. It encourages formative assessments, peer evaluations, and project-based assessments, moving away from rote memorization. Technology is also integrated into the assessment process, enabling real-time feedback and personalized learning pathways.

In conclusion, the session highlighted on all aspects necessary to create an education system that is flexible, holistic, and aligned with the demands of the 21st century. Prof. Sunil Kumar highlighted that through reforms in curriculum, pedagogy, and assessment, we can equip students with the skills necessary for personal growth and success in an ever-changing world.



The screenshot shows a Zoom meeting interface. The main window displays a presentation titled "Zais Model of Curriculum". The presentation content includes:

- Zais Model**
- Needs knowledge of -**
- A - Curriculum foundations**
- B - Curriculum components**
- Curricular Components**
- Curricular Foundations**
- Curricular Model Diagram:** A hand-shaped diagram with "Curricular Components" at the top and "Curricular Foundations" at the bottom. The hand's fingers represent "WHY", "WHO", "WHAT", and "HOW". The palm area contains "Objectives", "Materials", "Evaluation", and "Methods".

The Zoom interface shows a list of participants on the right, including Prof. R. K. Bajaj (NEP Coordinator Jaypee Univ...), Dr. Rahul Shrivastava, J..., and others. The bottom of the screen shows the Zoom toolbar with options like Unmute, Start Video, Participants, Chat, Reactions, Share Screen, AI Companion, and More.



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Session -II (3:00PM -4:30PM) Integration of Technology in Teaching and Learning

The sixth day of the Eight-Day Orientation and Sensitization Programme under the Malaviya Mission Training Programme (MMTTP), organized by Himachal Pradesh University, Shimla, was held on 28rd April 2025. The welcome address by **Prof. Rahul Shrivastava**, he greeted the participants and highlighted the relevance of the day's topic in today's knowledge-driven economy. Following this, **Prof. R.K. Bajaj**, UGC-MMTTC Coordinator, addressed the gathering and emphasized the significance of AI tools in the academic and research landscape.



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The resource person for the day was **Prof. Maitreyee Dutta, National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh**. She delivered an enlightening and comprehensive session on “Integration of Technology in Teaching and Learning.” Her lecture was interactive and informative. The lecture covered the following key areas:

Integration of Technology in Teaching and Learning:

ChatGPT: ChatGPT can be used in teaching and research to assist with content generation, drafting papers, and providing explanations of complex concepts. Educators can use it to generate discussion prompts, explain difficult topics in simpler terms, or provide examples and summaries. Researchers can also leverage ChatGPT for brainstorming ideas, generating literature reviews, or even drafting initial research proposals and abstracts.

Gamma.ai: Gamma.ai is valuable for creating structured presentations and reports for both teaching and research purposes. In the classroom, teachers can use it to quickly generate well-organized and visually appealing slides, enhancing lesson delivery. Researchers can utilize it to prepare presentations for conferences, helping to automate the process of creating impactful visuals and data-driven reports.

Slidesgo: Slidesgo is a great resource for teachers and researchers to design professional-looking presentations. Educators can use its templates to create engaging lecture slides, while researchers can easily generate visually compelling presentations for conferences, seminars, or workshops. The tool offers templates that save time, enabling users to focus more on content rather than design.

Quizizz: Quizizz is a dynamic platform for creating quizzes and assessments, making it ideal for both teaching and research. Teachers can create quizzes for formative assessments, quizzes for homework, or interactive review sessions to engage students. Researchers can use it to gather data, conduct surveys, or assess understanding during workshops and educational events.

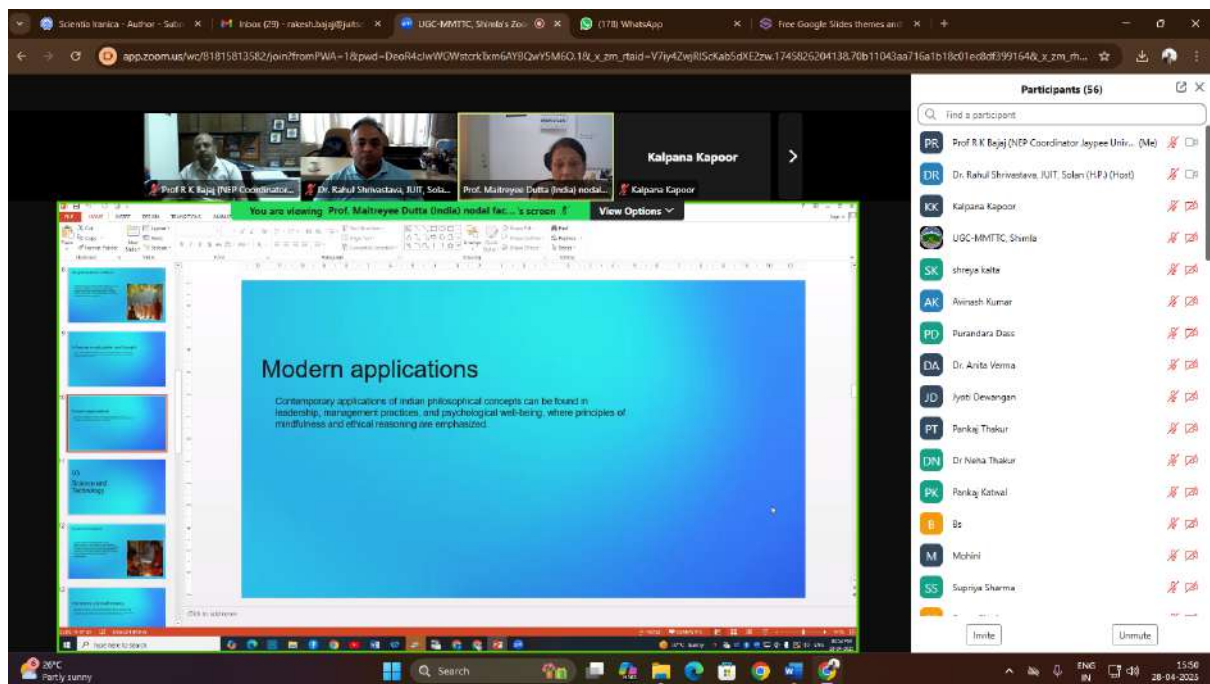
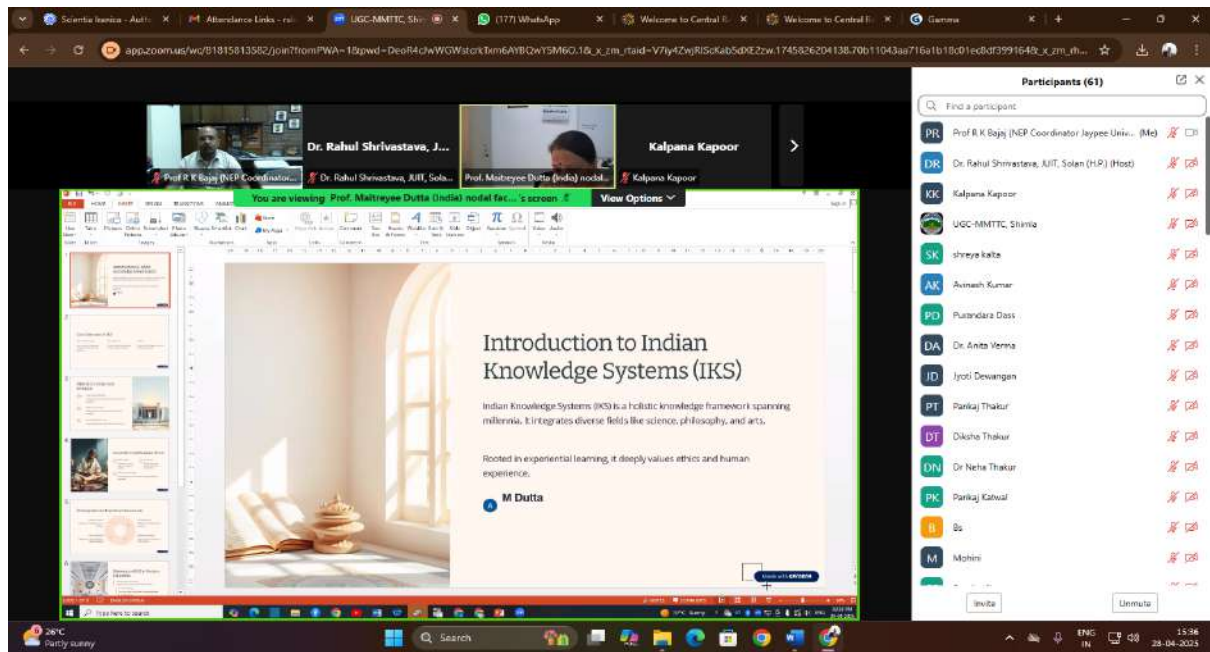
Zotero: Zotero is an essential tool for managing references in research. It allows researchers to collect, organize, and cite sources effectively. Educators can use Zotero to help students organize their research materials and properly cite their sources. For teaching, it can be used to create reading lists and share research resources with students, streamlining the academic writing process.

Interactive Q&A:

The session concluded with a highly interactive Q&A round where participants enthusiastically asked questions related to usage of the AI tool and their practical applications in research and teaching. The lecture was praised by all participants, who praised the practicality of the tools elaborated.



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The session ended with a heartfelt vote of thanks delivered by **Prof. R.K. Bajaj**, and **Prof. Rahul Shrivastava** who appreciated the speaker for her valuable time and profound experience.

The report has been compiled and sent to the official email record, and the session stands as one of the most intellectually stimulating segments of the programme.

NEP Cell,
JUIT, Wagnaghat



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Day 7 Report – MMTTP (29th April 2025)

Resource Person: Prof. Yash Pal Sharma, Dean Life Sciences, University of Jammu, Jammu
yashdbm3@yahoo.com

Dr. Yash Pal Sharma is a Professor of Botany and Dean of Life Sciences at the University of Jammu, hailing from Seen Thakran village in Udhampur district. With over 28 years of experience in teaching and research, his expertise lies in mycology, mushroom diversity, ethnobotany, and plant pathology. He has held key roles such as Head of the Botany Department, UGC-SAP Coordinator, and currently serves as Rector of Udhampur Campus. Dr. Sharma has mentored over 25 research scholars and leads projects on indigenous mushroom knowledge in the North-West and Trans-Himalayan regions. He has published 170+ research articles, authored several books, and received numerous awards, including the Prof. H.C. Dube Outstanding Young Scientist Award and the Prof. K. Natarajan Memorial Award.

Session 1 – (1:30PM -3:00PM) - Connecting Teachings Research

The session commenced with a warm welcome of all the participants by Prof Rakesh K Bajaj, NEP Coordinator of Jaypee University and Course Coordinator of the programme and the formal introduction of the resource person by Ms Shreya Kalta Research Scholar in the Department of Computer Science and Engineering, Jaypee University of Information Technology, Wagnaghat. emphasizing the critical importance of Research in the field of Teaching, connecting teaching and research enriches the learning experience by integrating current knowledge and inquiry-based thinking into the classroom. It also enhances research quality through continuous engagement with diverse perspectives and real-world educational challenges.

The session titled "*Connecting Teachings and Research*" was delivered by Prof. Yash Pal Sharma, Dean of Life Sciences at the University of Jammu, as part of the Ministry of Education's flagship *Malaviya Mission Teacher Training Programme (MMTTP)* under the NEP-2020 framework. The session provided valuable insights into the symbiotic relationship between teaching and research, highlighting how the two pursuits are not only complementary but deeply interdependent. Prof. Sharma, with his profound academic experience and reflective insight, emphasized that in the contemporary academic landscape, teaching and research should not be



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INSPIRED SOULS**

viewed as separate or competing responsibilities. Instead, he illustrated how effective teaching can inspire research ideas and how active research engagement enhances the quality of teaching by bringing real-world and cutting-edge knowledge into the classroom.

One of the key highlights of the session was Prof. Sharma's articulation of **seven practical strategies** for maintaining motivation and achieving a balanced academic life. These strategies were aimed particularly at early-career educators and researchers striving to align their teaching responsibilities with productive research output. His suggestions focused on developing clarity of purpose, prioritizing academic goals, maintaining a disciplined routine, and avoiding distractions and non-academic tasks that do not contribute meaningfully to professional growth. Prof. Sharma also stressed the importance of **focus and time management**, advocating for clear goal setting and consistent reflection on one's academic journey. He addressed common challenges faced by faculty, such as administrative overload and unclear research direction, offering concrete solutions to stay grounded and enthusiastic in both teaching and research domains. The session chair further enriched the discussion with deep reflections and contextual understanding, fostering a meaningful dialogue on the integration of research-driven pedagogy in Indian higher education. The interaction underscored NEP-2020's vision of nurturing holistic and multidisciplinary education where research and teaching reinforce one another. In conclusion, the session was a powerful reminder that the best educators are those who continuously learn, question, and contribute to their fields. Prof. Sharma's talk inspired participants to strive for academic excellence through mindful balance and persistent curiosity.

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Prof. R. K. Bajaj (NEP Coordinator...) HP Pradyumn Kanwalpreet Kaur Prof. Amit Srivastava

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Higher Education network in India: an extremely diversified higher education ecosystem.

- 1326 university-level higher education institutions
- State universities (public and private)
- Deemed to be universities (public and private),
- Central universities,
- IISERs & NISER, IITs, IIITs, NITs, IIMs,
- Institutions of Eminence,
- The CSIR academy,
- Cluster colleges as universities,
- Autonomous colleges upgrades as universities,
- Multidisciplinary and single-stream universities etc.

Colleges- more than 50,000
Among them are institutions that are over 150 years old and those that have recently been established.

With over 4.3 crore students, India is the largest higher education system in the world.

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Session 2 – (3:00PM -4:30PM) - Design and Development of MOOC's on SWAYAM Portal

Resource Person: Prof. Gaurav Singh

Central Institute of Educational Technology, NCERT, New Delhi.

gaurav.singh@ciet.nic.in; gaurinedu@gmail.com



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**IGNITED MINDS
INSPIRED SOULS**

Dr. Gaurav Singh, Professor of Educational Technology at CIET, NCERT, New Delhi, is a leading figure in digital education and teacher training in India. With over 20 years of experience, he has developed 125 MOOCs and coordinated 1,200+ lectures on the SWAYAM and SWAYAMPRAKASHA platforms. His course on Research Ethics and Plagiarism is among SWAYAM's top 10 and widely adopted by universities. He has authored a book, published 34 research papers, and received several national and international awards. His areas of expertise include ICT in education, ODL, and research methodology.

We were privileged to have Prof. Gaurav Singh as the resource person for today's session on "*Design and Development of MOOCs on SWAYAM Portal*". With his deep insight, vast experience, and dedication to integrating traditional pedagogy with modern digital tools, Prof. Singh delivered a highly informative and inspiring session under the NEP-2020 aligned MMTTP initiative. Prof. Singh began by contextualizing the relevance of **Massive Open Online Courses (MOOCs)** in the Indian education system, particularly within the framework of the **SWAYAM (Study Webs of Active–Learning for Young Aspiring Minds) portal**, which was launched by the Government of India to achieve equity, quality, and accessibility in education. He emphasized that MOOCs have become vital tools in democratizing education, enabling learners from diverse backgrounds to access high-quality content free of cost.

During the session, Prof. Singh elaborated on the **step-by-step process of designing, developing, and uploading MOOCs on the SWAYAM platform**. He walked the participants through critical stages, including:

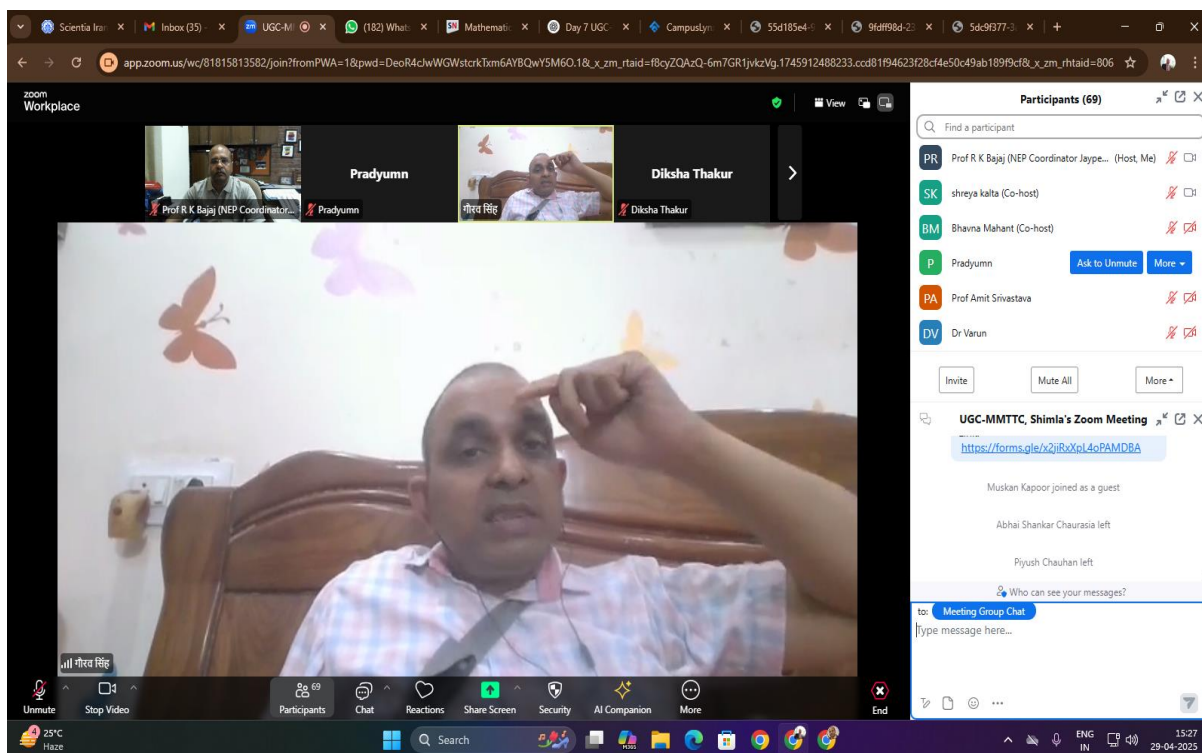
1. **Course Planning and Scripting:** Structuring content, identifying learning outcomes, and scripting lectures to align with national curriculum goals.
2. **Video Recording and Editing:** Techniques for developing engaging multimedia content using studio setups or low-cost alternatives.
3. **Uploading Process:** The SWAYAM portal provides limited cloud space per course—typically around 40 GB per MOOC—and includes a detailed backend for course coordinators to upload and manage content.
4. **Course Coordination Role:** Prof. Singh shared valuable experiences and challenges faced as a **course coordinator**, including technical constraints, student engagement issues, and time-intensive coordination efforts.
5. **Assessment and Certification:** He discussed the need for effective evaluation mechanisms and how current MOOCs often lack robust **self-analysis tools** to track learners' progress in real time.

A particularly insightful part of the session was the discussion around the “**Design Your Own Degree**” concept promoted by NEP-2020, which envisions a learner-centric model using MOOCs as credit-based modules that students can stack toward degrees. Prof. Singh emphasized that faculty must adapt to this new structure by acquiring skills in instructional design, content creation, and digital assessment.

He also presented the **advantages and drawbacks of MOOCs**:

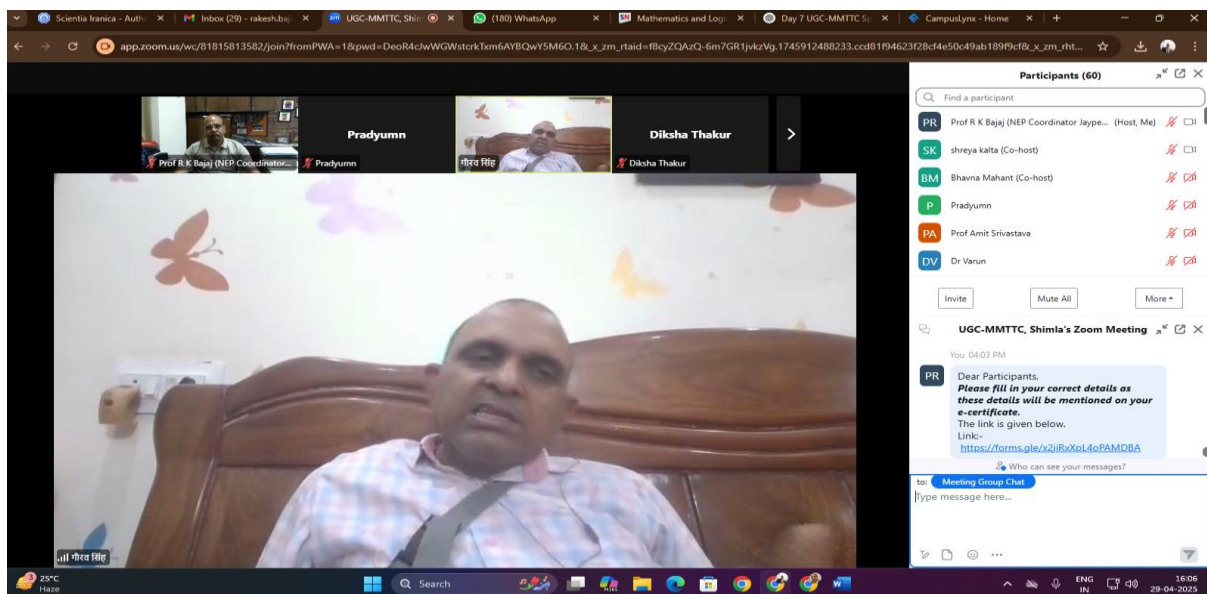
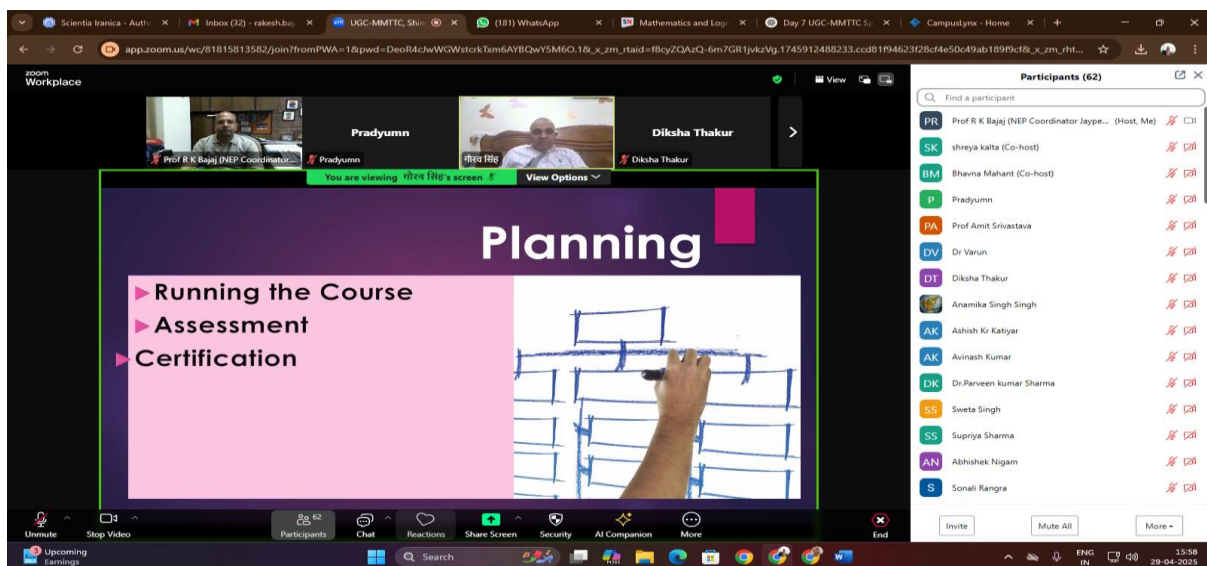
- **Advantages:** Flexibility, cost-effectiveness, scalability, lifelong learning, and standardized content delivery.
- **Drawbacks:** Limited interaction, lack of personalized feedback, dropout rates, and absence of in-depth self-assessment mechanisms.

Prof. Singh encouraged all participants to explore opportunities to become content creators and coordinators on SWAYAM. His rich academic contribution and passion for digital education left the audience motivated and better equipped to engage in India’s growing online education ecosystem.





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Conclusion:

The session highlighted the transformative role MOOCs can play in the NEP-2020 vision for inclusive and multidisciplinary education. Through Prof. Gaurav Singh's expertise, participants gained practical knowledge on the design and delivery of MOOCs and developed a clearer understanding of their own role in reshaping education through technology. Overall, both the sessions were very relevant and informative, and we all benefitted a lot from this. The session ended with a vote of thanks delivered by Ms. Shreya Kalta & Prof Rakesh Bajaj.



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Day 8 Report – MMTTP (30 April 2025)

Resource Person:

Prof Desh Raj Thakur 22.04.2025 (Tuesday)
Director, UGC-MMTTC, H.P. University, Shimla

Prof. D R Thakur (MSc., PhD, DHE, MJMC) is presently working as Sr. Professor in department of Biosciences, Himachal Pradesh University, Summerhill, Shimla, HP. He joined HP University in 2001 after serving as Lecture in Dept. of Higher Education, Govt. of HP for about seven years. D R Thakur, has served as Chairman Dept. of Biosciences & Director, International Students' Welfare, of the University and presently holding the responsibility as Director Malaviya Mission Teacher Training Centre and Dean Faculty of Life Sciences, Himachal Pradesh University, Summerhill, Shimla.

- guided two Post Doctorate Fellows, Nine Ph D, and thirty seven M.Phil students.
- Research Projects of different granting agencies and
- published hundred and seventy-eight research papers of national and international repute.
- He is Member editorial and referee of many national and international research journals.

D R Thakur has also served as Warden for about 12 years, President, Himachal Pradesh University Biological Society (HUBS), President Himachal Pradesh University Teachers' Welfare Association, General Secretary, Himachal Pradesh University, Alumni Association and Institutional Animal Ethics Committee of the University and presently Chairman of the Institutional Animal Ethics Committee. He is life members of many national and International academic bodies and visited South Africa, New Zealand, Thailand, Portugal, Greece, Canada and Germany in context with academic activities.

He has delivered many invited talks & key notes in national and international conferences, seminars and symposia. He is member expert of State Wetland Authority, HIMCOSTE, Govt. of HP, Member Task Force, MOEF&CC, Govt. of India, and Member Expert, Evaluator, Examiner, Research Advisor, subject expert of various selection committee in state and central universities and Moderator of many Academic bodies and State Public Service Commissions.

D R Thakur has served as Chairman of many committees, constituted by HP Private Educational Regulatory Commission for Examination reforms, allocations of courses & PhD students and evaluation



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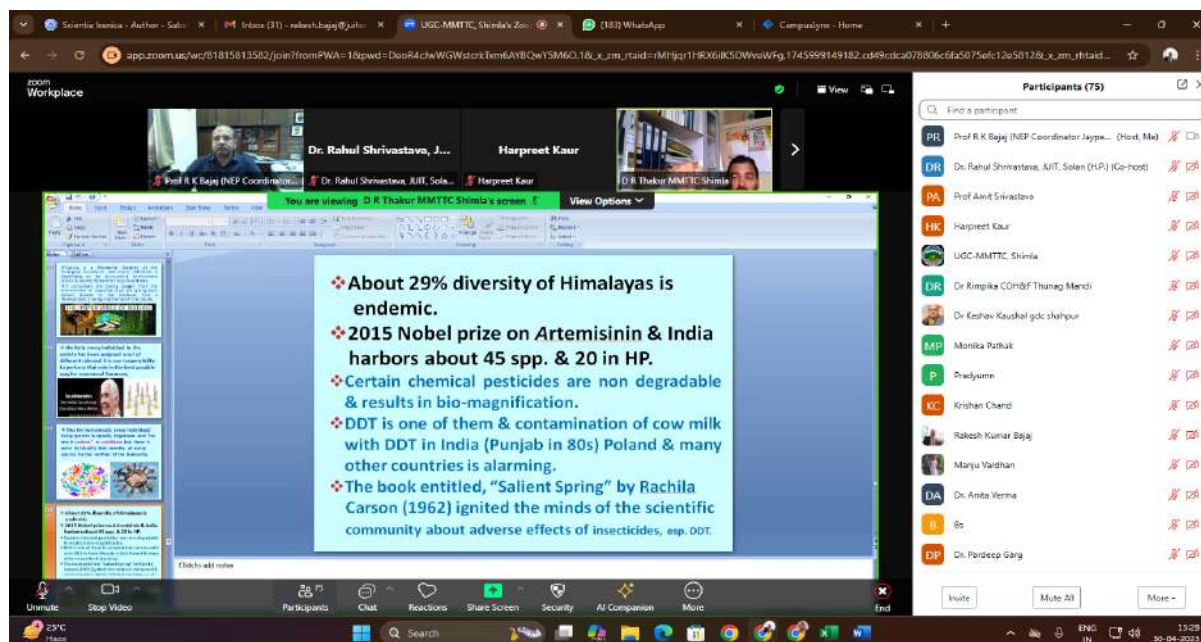


of eligibility of the faculty members to be the guide of PhD students as per UGC norms etc. for all private universities in the jurisdiction of Himachal Pradesh. He has served as Chairman of the State Focus Group for development of Curriculum on Environment Science for State Curriculum Frame Work under National Education Policy (NEP- 2020) through SCERT, Himachal Pradesh. He has been awarded six Prizes and Awards by different agencies and societies. D R Thakur has been publishing on many current issues of public concern in regional and national newspapers and has published thirteen new and first records from India and pioneer to compile the breeding of some migratory ducks and faunal diversity of a High Altitude Wetland, “Chandertal” a Ramsar Site in Trans Himalayas.

Session -I (1:30PM -3:00PM) Holistic and Multi-disciplinary Education



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Session -II (3:00PM -4:30PM) MCQ Test I and MCQ Test II

Dear participants,

Please find here the links for multiple question tests that are mandatory for the completion of NEP 2020: Orientation and Sensitisation Programme. Each test is of 40 marks with MCQs. You are required to score atleast 50% marks in each test.

Link for MCQ I: <https://forms.gle/iDPNWomNNRKmac5u8>

Link for MCQ II: <https://forms.gle/fFDxVmtxeyVtwnwKA>

The session ended with a heartfelt vote of thanks delivered by Prof. R.K. Bajaj who appreciated the speaker for her valuable time and profound experience.

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