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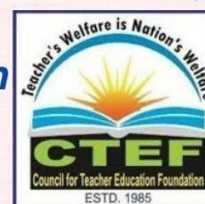
Organizes

Faculty Development Programme

Open Educational Resources: A Catalyst for Innovations in Education

November 29, 2023- December 07,2023
in Collaboration with

Council For Teacher Education Foundation

MIER College of Education, Jammu
Bombay Teachers' Training College, HSNC University, Mumbai
Government College for Girls, Ludhiana
DAV College of Education, Abohar
A.S. College of Education, Khanna
Guru Teg Bahadur Khalsa College of Education, Dasuya
GHGH College of Education for Women, Sidhwan Khurd
Innocent Hearts College of Education, Jalandhar

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About the Institution

This institution is associated with the name of Sri Guru Hargobind Sahib Ji, the sixth Guru, who once visited this place in 1657. The college is located 28 kms from Ludhiana on Ludhiana-Raikot-Barnala road. This prestigious institution came into existence with the beginning of B.Ed. course in 1955 and M.Ed. course in 1982. In 2022, College has been sanctioned 40 seats in Post Graduate Diploma in Guidance and Counselling by PU, Chd.

The college has been accredited by National Assessment and Accreditation Council (NAAC) with Grade A in 2009 and 2017 respectively. The College is a Grant-in-Aid College under 95% deficit grant-in-aid scheme of Govt. of Punjab and is recognized by University Grants Commission, New Delhi under 12 (B) & 2 (F) of the UGC Act. It is permanently recognized by the National Council for Teacher Education, New Delhi. The college motto 'Simple Living High Thinking' reflects its goals, vision and mission. The college has contributed a lot to society by producing well-informed, skilled and professionally qualified teachers for secondary schools and teacher educators for Colleges of Education.

About the Faculty Development Programme

Open Educational Resources (OER) are a transformative educational concept, offering freely accessible and openly licensed materials for teaching, learning, and research. These resources encompass various formats, including textbooks, courses, videos and software etc. enabling educators and learners worldwide to access quality educational content without any financial barrier. OER not only democratize education by fostering equitable access but also encourage collaboration, adaptability, and innovation in educational practices. Their unrestricted nature allows customization and modification, promoting diverse learning experiences tailored to different contexts and learner needs. OER embodies the ethos of sharing knowledge, empowering educators to create dynamic, inclusive learning environments while enhancing the accessibility of education for all. This faculty development programme on OER aims to empower educators to effectively use, create, and advocate for open educational resources in their teaching practices.

This Faculty Development Programme has been designed as a collaborative activity which will enhance the intellectual and professional development of collaborating institutions

This FDP shall be focusing upon the following sub-themes:

- *Concept of Open Educational Resources (OER)*
- *Open Educational Resources in Higher Education: Trends and Scenario*
- *Types of Open Educational Resources*
- *Tools And Techniques For Creating Open Educational Resources*
- *OER Repositories & Platforms or Searching, Creating, Curating OER*
- *Understanding Creative Commons Licensing*
- *OER in Indian Education Context- Government Initiatives*
- *Legal and Ethical Considerations in OER Adoption*
- *Designing Interactive Learning Experiences with OER : Experience Sharing*
- *Open Educational Resources: Opportunities for Research*
- *Open Educational Resources: Teacher Education & School Education*
- *Development of MOOCs using OER*
- *Emerging Trends in OER*
- *Quality concern and challenges in using OER*

Online Mode Through Zoom Platform

Session I
(01:00PM-02:00PM)
Session II
(02:00PM-03:00PM)

Programme at Glance

Date	Topic	Resource Person
29.11.2023	*Concept of Open Educational Resources (OER)*	Dr. Mahesh H. Koltame Assistant Professor P.V.D.T.College of Education for women, SNDT Women's University, Mumbai
	Tools and Techniques for Creating Open Educational Resources	Prof.(Dr.) Anshu Radha Agarwal Principal, KIIT College of Education, Gurugram, Haryana
30.11.2023	*Types of Open Educational Resources*	Prof. Mool Raj Head Centre for Educational Technology, MIER College, Jammu
	Open Educational Resources in Higher Education: Trends and Scenario	Prof. Abha Sharma Principal B.Ed. incharge Research cell SCERT (Govt. of NCT), New Delhi
01.12.2023	*OER Repositories & Platforms or Searching, Creating, Curating OER*	Dr. Sandeep Patil Assistant Professor Dept of Edu, M.G.A.A.H.V, Central University, Wardha
	Understanding Creative Commons Licensing	Dr.Gomathi Shridhar Assoc. Prof. and Head, Dept. of Chem., V.K. Krishna Menon College of Comm. and Eco. and S.S. Dighe College of Science, Bhandup (E), Mumbai
02.12.2023	*OER in Indian Education Context- Government Initiatives*	Dr. Paramvir Singh Asst Prof. Dev Samaj College of Education for Women,Ferozepur
	Legal and Ethical Considerations in OER Adoption	Dr. Amit Ahuja Asso Prof., University School of Education, GGSIP University, Delhi.
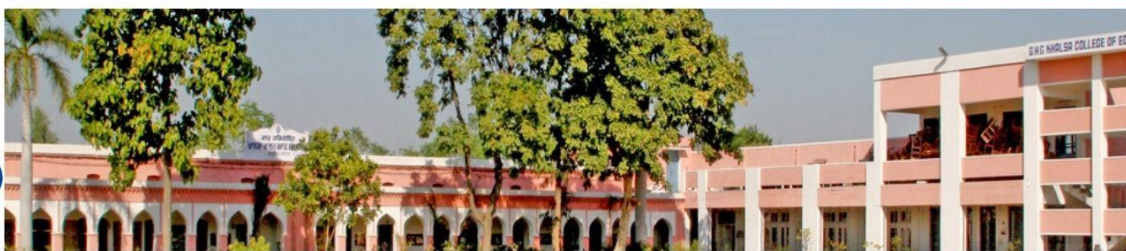
Programme at Glance

Date	Topic	Resource Person
04.12.2023	*Designing Interactive Learning Experiences with OER: Experience Sharing*	Dr Rohan Vilas Mamta Gavankar Asst Prof. Dept. of Botany and Biotechnology VIVA College, Virar West, , University of Mumbai, Maharashtra, India.
	Open Educational Resources: Opportunities for Research	Dr. Deepika Kohli Assistant Professor Khalsa College of Education, Amritsar
05.12.2023	*Open Educational Resources: Teacher Education & School Education*	Dr. Sanjay Kumar Principal Saraswati College of Professional Studies Ghaziabad, Uttar Pradesh
	Development of MOOCs using OER	Dr. Rekha Chavhan Associate professor, Department of Education, SNDT Women's University, Mumbai
06.12.2023	*Integrating Open Educational Resources in eLearning*	Dr. Neelu Verma Assistant Professor Bombay Teachers' Training College, Mumbai
	Quality concerns and challenges in using OER	Dr. Deepa Verma Vice-Principal, VIVA college of Arts, Commerce & Science University of Mumbai
07.12.2023	*Open Educational Resources on Soft Skills*	Dr. Raju Talreja Assistant Professor Bombay Teachers' Training College, Mumbai
	Valediatory Session	Dr. Mandeep Kaur Kochar

Registration Link

Date & Time	Topic	Coordinator of the Session	Resource Person
29.11.2023 01:00p.m - 02:00p.m.	Concept of Open Educational Resource (OER)	**GHG Khalsa College of Education Gurusar Sadhar**	Dr. Mahesh H. KoltameAssistant ProfessorP.V.D.T.College of Education for women, SNDT Womens University, Mumbai
29.12.2023 02:00p.m - 03:00p.m.	Open Education Resources in Higher Education: Trends and Scenario	**GHG Khalsa College of Education Gurusar Sadhar**	Prof.(Dr.) Anshu Radha AgarwalPrincipal, KIIT College of Education,Gurugram, Haryana
30.11.2023 01:00p.m - 02:00p.m.	Types of Open Educational Resource	**Govt. College for Girls, Ludhiana**	Prof. Mool Raj Head Centre for Educational Technology, MIER College, Jammu
30.11.2023 02:00p.m - 03:00p.m.	Tools and Techniques for Creating Open Educational Resource	**Govt. College for Girls, Ludhiana**	Prof. (Dr.) Abha SharmaPrincipal, SCERT, Delhi
01.12.2023 01:00p.m - 02:00p.m.	OER Repositories & Platforms or Searching, Creating, Curating OER	**DAV College of Education, Abohar**	Dr. Sandeep Patil Assistant ProfessorDept of EduM.G.A.A.H.V, Central University, Wardha
01.12.2023 02:00p.m - 03:00p.m.	Understanding Creative Commons Licensing	**DAV College of Education, Abohar**	Dr.Gomathi ShridharAssoc. Prof. and Head, Dept. of Chem., V.K. Krishna Menon College of Comm. and Eco. and S.S. Dighe College of Science, Bhandup (E), Mumbai
02.12.2023 01:00p.m - 02:00p.m.	OER in Indian Education Context- Government Initiatives	**GHGH Khalsa College of Education for Women,Sidhwan Khurd**	Dr. Paramvir Singh Assistant Professor Dev Samaj College of Education for Women,Ferozepur
02.12.2023 02:00p.m - 03:00p.m.	Legal and Ethical Considerations in OER Adoption	**A.S. College of Education, Khanna**	Dr. Amit Ahuja Associate Professor University School of Education, GGSIP University, Delhi.
04.12.2023 01:00p.m - 02:00p.m.	Designing Interactive Learning Experiences with OER: Experience Sharing	**Innocent Heart college of Education, Jalandhar**	Dr Rohan Vilas Mamta Gavankar Asst Prof. Dept. of Botany and Biotechnology VIVA College, Virar West, , University of Mumbai, Maharashtra, India.
04.12.2023 02:00p.m - 03:00p.m.	Open Education Resource: Opportunities for Research	**Innocent Heart college of Education, Jalandhar**	Dr. Deepika Kohli Assistant Professor Khalsa College of Education, Amritsar
05.12.2023 01:00p.m - 02:00p.m.	Open Education Resources: Teacher Education & School Education	**MIER College of Education, Jammu**	Dr. Sanjay Kumar Principal Saraswati College of Professional Studies Ghaziabad, Uttar Pradesh.
05.12.2023 02:00p.m - 03:00p.m.	Development of MOOCs using OER	**MIER College of Education, Jammu**	Dr. Rekha ChavhanAssociate professor, Department of Education, SNDT Women's University,Mumbai
06.12.2023 01:00p.m - 02:00p.m.	Integrating Open Educational Resources in eLearning	**Bombay Teachers' Training College, Mumbai**	Dr. Neelu VermaAssistant Professor Bombay Teachers' Training College, Mumbai
06.12.2023 02:00p.m - 03:00p.m..	Quality concern and challenges in using OER	**Bombay Teachers' Training College, Mumbai**	Dr. Deepa Verma Vice-Principal,VIVA college of Arts, Commerce & Science University of Mumbai
07.12.2023 01:00p.m - 02:00p.m.	Open Educational Resources on Soft Skills	**Guru Teg Bahadur Khalsa College of Education, Dasuya**	Dr. Raju Talreja Assistant ProfessorBombay Teachers' Training College, Mumbai
07.12.2023 02:00p.m - 03:00p.m.	*Valediatory Session*	**Guru Teg Bahadur Khalsa College of Education, Dasuya**	Dr. Mandeep Kaur Kochar

Proceedings

Faculty Development Programme on Open Educational Resources: A Catalyst for Innovations in Education

Dr. Mahesh provided a comprehensive introduction, elucidating the Concept with the help of definitions of OER given by The Willam and Flors Hewlett Foundation, UNESCO, and The Cape town Open Education Declaration. He said that opening and sharing knowledge is necessary if we are going to solve the world's most pressing challenges. By sharing his perspective on the need of OER in the field of education, Mr. Mahesh elaborated that as the time advances demands in every field also changes and education is no exception. With changing technology, we need to learn new things in life and become lifelong learners which further is possible only through the resources which are open and easily available. Open Education is away from which other doors of learning open.

Dr. Koltame discussed the various interrelated terms in the context of OER like Open courseware (OCW), OER and OA (Open Access). He delved into the concept of OER by saying that Open Educational resources are teaching, learning and research material that either are in a public domain or licensed in a manner that provides everyone with free and perpetual permission to engage in 5R activities which include:

- Retain- Make and own a copy.
- Reuse- Use in a wide range of ways
- Revise- Adopt, Modify, and Improve
- Remix- Combine two or more.
- Redistribute- Share with others.

Dr. Koltame eloquently highlighted the key features of OER by saying that they are

- They are open and a Copyright license is required.
- There is the right of access, adaptation, and republication.
- They are non-discriminatory.

Dr. Mahesh provided an insightful evolution of the Concept of Open Education over the years. He shared that the concept of open education came into existence in 1999 when the University of Tubingen (Germany) and Open University U.K. released some education resources for free. He also discussed the other historical developments, key milestones, and transformative shifts in the landscape of open education. The valuable insights shared have undoubtedly enriched our understanding of the evolution of the concept of Open Educational Resources.
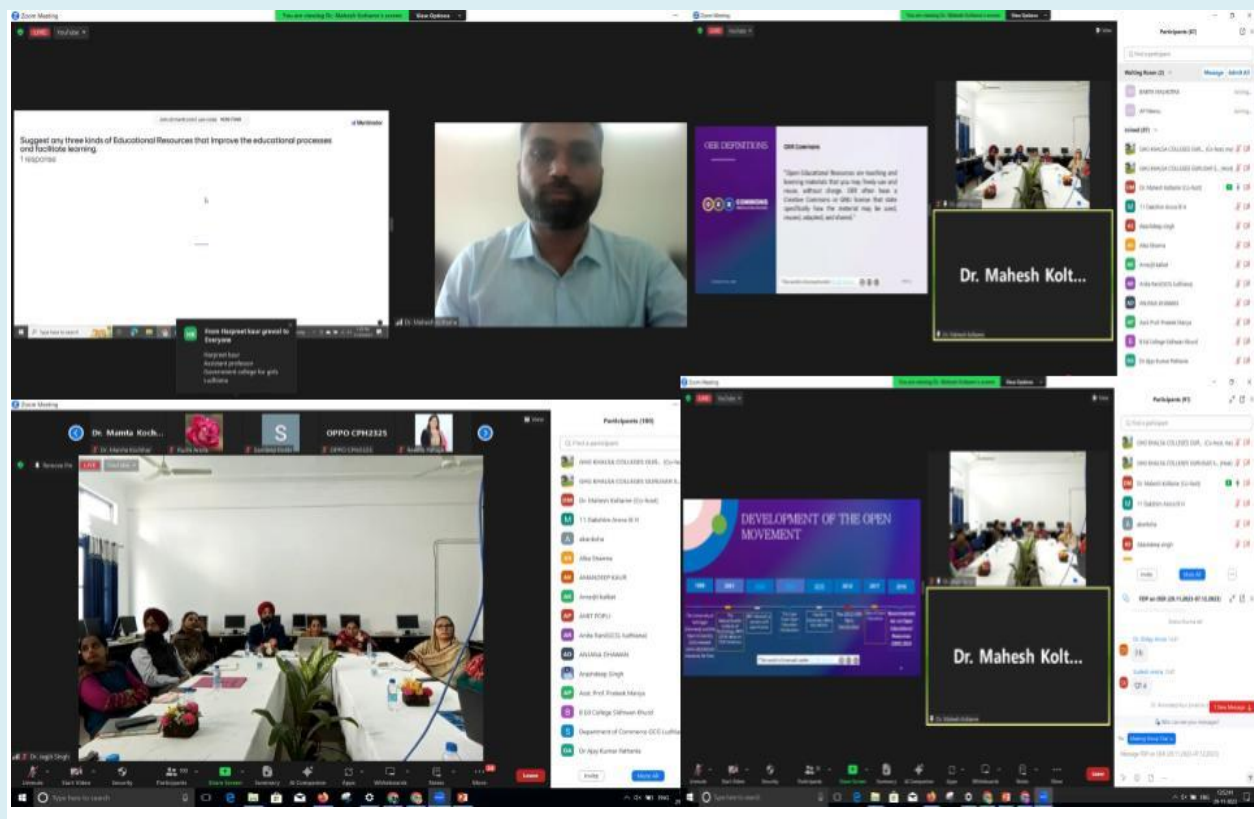
Day 1 (Session II)- November 29, 2023

Resource Person- Prof. (Dr.) Anshu Radha Aggarwal

Principal, KIIT College of Education, Gurugram, Haryana

Topic: Tools and Techniques for Creating Open Educational Resources

The Presentation on "ICT and AI Tool Techniques for Open Educational Resources" by Dr. Anshu Aggarwal was a comprehensive exploration into the practical aspects of OER development. The session aimed to equip participants with insights into the tools available and effective techniques for creating high-quality open educational resources. Dr. Anshu while giving an introduction about these tools opined that many ICT tools are being used frequently by the teachers all over the world since the pandemic of Covid19. She further suggested that we must explore the world of ICT tools

for OER and must discover the benefits of using tools like Google slides, Google DocsTes teach, Canva, YouTube and social media to enhance teaching and learning in the digital age. She described all the ICT tools for creating Oer by citing their benefits elaborately.

Further Dr. Anshu Aggarwal discussed the various AI tools for creating OER and said that Artificial Intelligence (AI) plays a significant role in creating, enhancing, and facilitating the development of OER in various ways.By integrating AI into the creation and management of OER, educators can leverage advanced technologies to enhance the accessibility, personalization, and overall quality of educational resources for a diverse and global audience. She highlighted the various benefits of AI in creating OER by saying that it is revolutionizing OER creation by automating content generation and enhancing personalization. Dr. Anshu provided hands-on experience for using copilot and described that co-pilot is used for creating lesson plans, designing captivating presentations and generating interactive quizzes with ease. About Learnworld she said that it is used for course creation and management, providing personalized learning experiences and analytics to track student progress. She suggested that we must unlock the full potential of open educational resources by leveraging the power of ICT and AI Tools. We must discover new ways to engage students, enhance collaboration and personalize learning experiences and embrace the future of education with these innovative tools.

Following the presentation, an engaging question and answer session allowed participants to seek clarifications, share insights, and further explore aspects of the evolution of OER. provided thoughtful responses, contributing to a dynamic exchange of ideas.

Dr. Mool Raj introduced the concept of OERs as the resources which are open in access and freely available for education and research purposes. The basics of OER include five R's- Revise, Remix, Reuse, Retain and Redistribute. Then he explained that these free resources can be revised, remixed, reused and redistributed by the users. Dr Raj explained the types of OERs. He elaborated that OERs can be classified as Format types and Resource Types. According to level of functionality offered by the OERs websites can be of three major categories- Directories , platforms and repositories. Other types of OERs include syllabus, lesson plans, course videos, open courseware, streaming videos etc. After elaborating the types of OERs , Dr. Raj shared various screenshots of resources for educators, such as BC Open Collection and listed some resources such as LibreText ,Bandcamp, Library of congress Audio Files , YouTube and Vimeo. Later he shared the screens of some other OERs like UNESCO OER handbook, PHET for animation and simulation, certain tools like openly licensed software and assessment tools, Learning resources like Teaching Commons and open textbooks, etc. In the next segment of his presentation Dr, Raj discussed effective search strategies for OERs with the help of four steps namely, search, identify, compile, and evaluate. Then he shared the practices followed at MIER College and shared the various tools like recording tools, slideator, screenpal. He also displayed other resources such as MCE Open Access Repository , Mool, Rubistar, Canva. To create references, he explained the use of open attribution builder. Then he shared a research study showing a list of open educational resources which are underutilized in spite of being very useful. He urged the faculty members to use these free resources to improve themselves and enhance the quality of teaching learning process. Dr. Mool Raj answered the queries of the participants. The session was well received and appreciated by the faculty members.

Dr. Jaspreet Kaur, from GCG. Ludhiana thanked the resource person and participants.
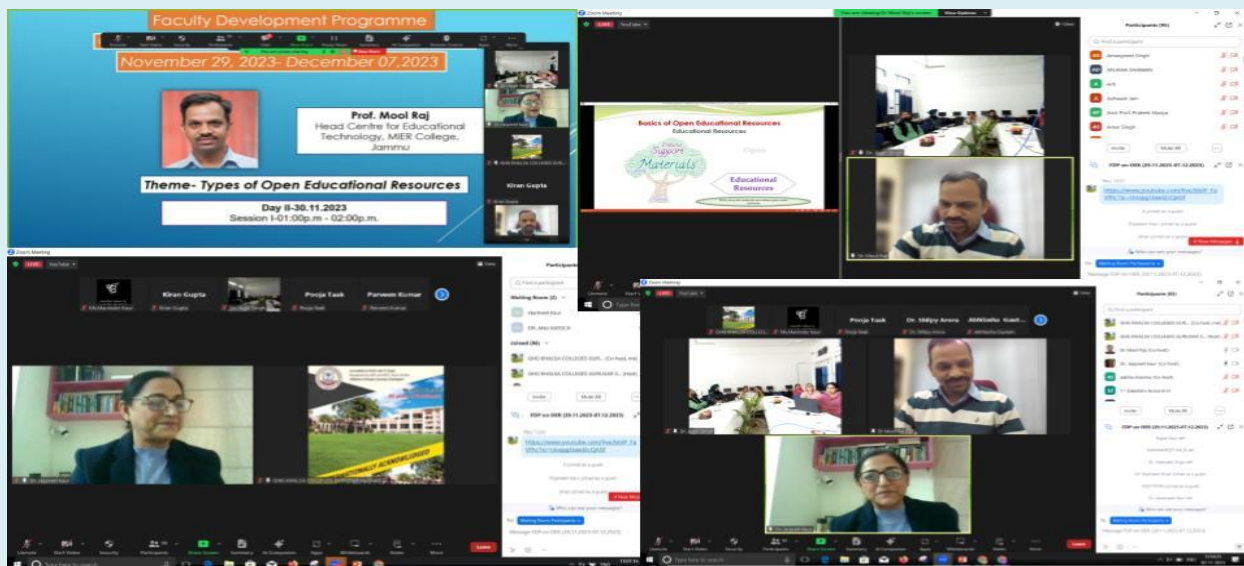
**Day 2 (Session II)- November 30, 2023**

Name of the Resource Person: Prof. Abha Sharma

Principal, SCERT, New Delhi, India

Topic: Open Education resources in Higher Education: Trends & Scenario

Dr. Abha Sharma started the session with certain basics of OERs and explained some important points like key potential of OER and characteristics of OER. She explained the spectrum of Open educational resources in higher education and potential of various types of OERTs useful for the enhancement of teaching learning process. Dr. Sharma discussed the need and utility of openness in higher education. Open data, research, courses, APIs , open access publishing etc. are assets for higher education. Openness in education provides freedom to copy, to modify, to distribute and to redistribute modified versions and share four A's of OERs namely- accessible, appropriate, accredited and affordable. She discussed the beneficiaries of OERs ie. Students within and outside institutions, self-learners and teachers. She explained how the OERs can help in addressing the key educational challenges by fostering use of new forms of learning and professional development and engagement and continually improving the quality of resources and reducing barriers to learning resources. She carried out SWOT of OERs. She elaborated upon the innovation potential of open educational resources for various stakeholders. She also discussed various barriers for the adoption of OERs. In the next part of her lecture, the resource person touched upon current research areas associated with OERs. She explained the global scenario of OERS with the help of Open Educational Resources : Global report 2017 and discussed challenges and gaps to mainstream OERS in various regions across the world. She concluded her talk by highlighting

some observations like – the teachers should attempt to provide quality content, there are no technical barriers for the creation of free educational content and a well-funded public higher education system remains the best way to assure access to higher education for the majority of the population. The session was very informative and Dr Sharma answered the queries of the participants. At the end of session, Dr. Jaspreet Kaur presented a vote of thanks.
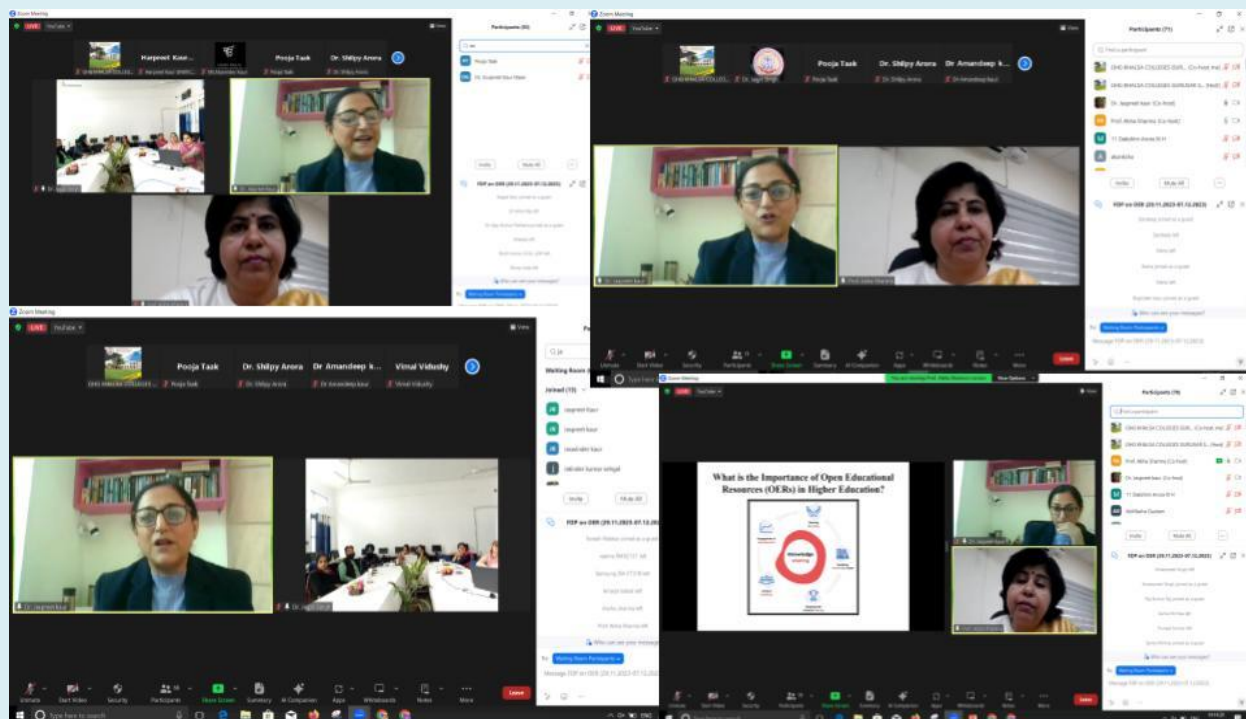
Day 3 (Session I)- December 01, 2023

Dr. Sandeep Patil

Assistant Professor, Dept of Edu, M.G.A.A.H.V, Central University, Wardha

Apropos Online Faculty Development Programme (FDP) on OER i.e. Open Educational Resources dated 29.11.2023 to 07.12.2023, DAV College of Education Abohar got the opportunity to coordinate two sessions on 01.12.2023.

The first session (01.12.2023 from 01 PM to 02 PM) was taken by esteemed resource person Dr.Sandeep Patil (Assistant Professor, Depart of Education, Mahatma Gandhi Antarrashtriya Hindi Vishwa Vidyalaya, Wardha) on the theme 'OER Repositories & Platforms or Searching, Creating Curating OER'.

At the start of the session, the Resource Person was introduced by Mr. Ajay Khosla (Assistant Professor, DAV College of Education, Abohar). In his address, Dr. Patil firstly introduced basic concept of OER Repositories and it's various sort of usage for the ease of teaching learning process in contemporary dynamic scenario. Dr.Patil mentioned OER Repositories like Merlot, Oasis,

Flickers, MIT Open Courseware, Wikimedia Commons, California Open Online Library for Education, Teaching Commons etc. to apprise the participants with latest trends in OER Repositories. Apart from this, concepts like open image repositories, Openverse, Opex Textbook Library, Directory of Open Access Books (DOAB),Vimio, Consortium for Educational Communication (CEC), National Digital Library of India,.Mason OER Metafinder etc. were discussed at length. Issue of searching OER on YouTube was also discussed during the deliberations. Various question were asked by the participants, which were effectively and insightfully handled by Resource Person Dr. Sandeep Patil. Overall, the entire session was extremely informative and reflective. At the end of this session, Vote of Thanks was presented by Dr. Mandeep Kaur (Incharge, IQAC) of DAV College of Education, Abohar.

Day 3 (Session II)- December 01, 2023

Dr.Gomathi Shridhar
Assoc. Prof. and Head, Dept. of Chem.,
V.K. Krishna Menon College of Comm. and Eco. and S.S. Dighe College of Science,
Bhandup (E), Mumbai

2nd session of the day was held from 02 PM to 03 PM. For this session, Dr. Gomti Shridhar (Associate Professor and Head, Department of Chemistry, VK Krishana Menon College of Commerce and Economics, Bhandup (E) Mumbai) was the esteemed Resource Person. For the session, the theme was 'Understanding Creative Commons Licensing'.

In her address, Dr. Gomti Shridhar firstly introduced the Concept of creative commons licensing to the participants. She started with throwing light on Intellectual Property Rights concept and then proceeded to discuss licence and copyrighted material such as books, articles, Photographs, Buisness Proposal E-mails, Artistic Work, Software Websites,Movies etc. Resource Person used Mentimeter extensively to involve the participants in the lecture. Dr.Gomti shared her valuable tips on certain important aspects of creative Commons which are private sector alternatives to traditional copyright domain. Creative Commons aims at dissemination of content with utmost ease, flexibility and innovation. Dr. Gomti gave information about the background of creative Commons,which was initiated by Prof. Lawrence Lessig, and its new paradigms. It was further conveyed by Dr. Gomti that Creative Commons license enables reusers to distribute, remix, adapt, and build upon the material in any medium or format, so long as attribution is given to the creator. Concepts such as CC by-SA, CC by-NC, CC by -NC-SA, CC by-ND, CC by NC-ND, Choosing a licence were thoroughly discussed by Dr. Gomti. Various queries were put forward by the participants, which were effectively and satisfactorily handled by Dr. Gomti Shridhar. Overall, the entire session was very insightful. At the end of this 2nd session of the day,Vote of Thanks was presented by Dr. Mandeep Kaur (Incharge, IQAC) of DAV College of Education, Abohar.

Overall, both the sessions of the day were appreciated by participants for rich content quality and dynamic interaction.
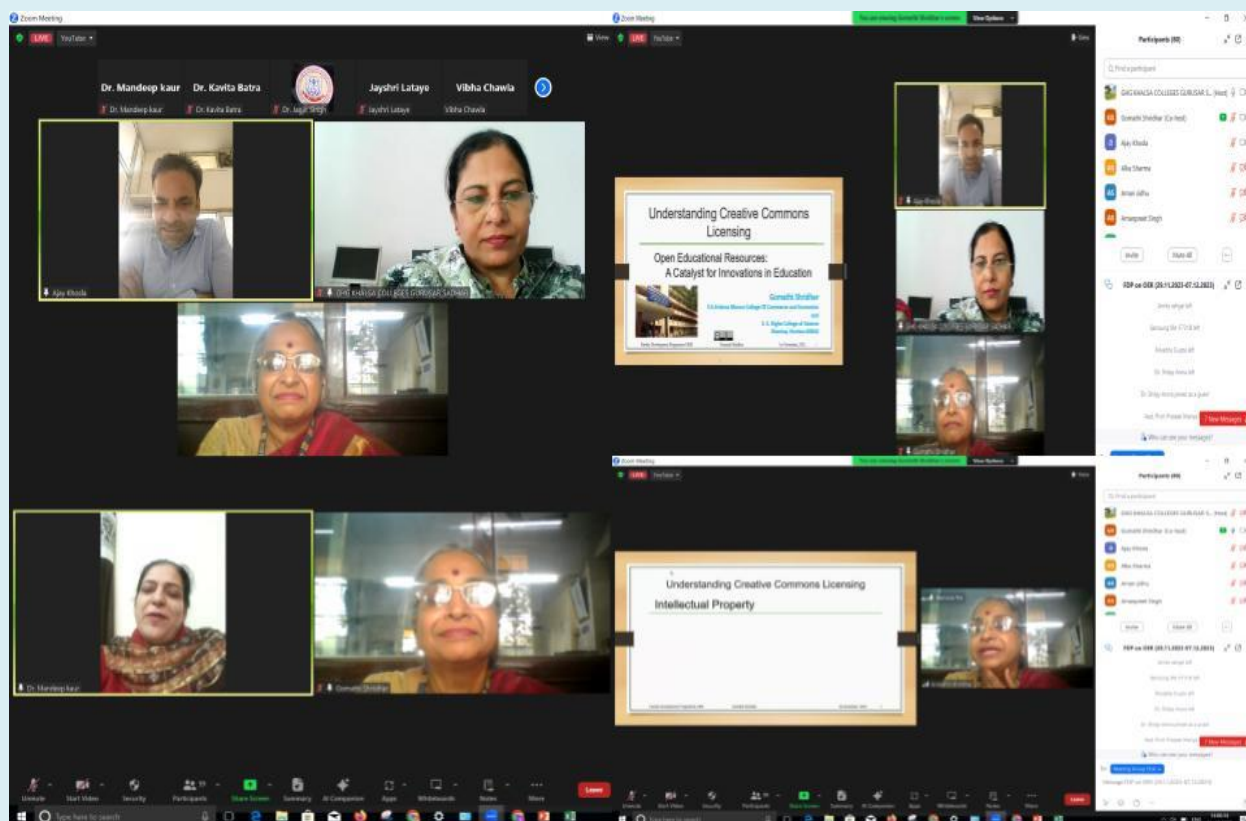
The Presentation on "OER in Indian Education Context- Government Initiatives' ' by Dr. Paramvir Singh was a comprehensive explanation of various types of Open Educational Resources in Indian Education Context and Government Initiatives. He in a very comprehensive manner illustrated how OER helps in democratizing lifelong learning spaces that eventually help in skills development. He stressed that Proper deployment and utilization of OER resources will lead to social empowerment of young adults.

Dr. Paramvir Singh displayed a checklist to guide faculty for evaluating open education resources that include accuracy, relevance, production quality, accessibility and interactivity. He stated that In spite of its significance, OERs may be regarded as a supplement and to some extent complement to physical resources but OERs cannot be replaced by physical resources. Dr. Paramveer demonstrated the process of creating and generating creative common license. The session aimed to equip participants with insights into the open educational resources in Indian Educational Contexts like NPTEL, SWAYAM, e- Pathshala, Consortium for Educational Communication (CEC), Virtual Labs, Free and Open Source Software in Education(FOSSEE), Shodhganga and DIKSHA. Various search options for getting access to OER like contents, images, videos using advance search and creative common search options were also explained.

Further Dr. Paramvir Singh Sdiscussed the various other OER tools Vidwan, NISHTHA, E-Kalpa , Egyankosh, Swayam Prabha and NLIST. Dr. Paramveer in his session stated the easy and widespread availability of high quality educational material will change the paradigm of teaching and learning and thus improve the quality of education. This session helped in understanding how Indian society embraces OER in order to attain social justice and empowerment through sustainable educational development. This session attempted to explore and review the various types of OER in Indian context- Government initiatives and attempted to peek into future scope of expansion.

Towards the end Dr. Paramvir Singh summed up the session:

- how to search for existing resources,
- how to evaluate and adapt OER and

- how to decipher Creative Commons licensing.

how to license institutional resources with CC licence. and the session ended with interactive question and answers.
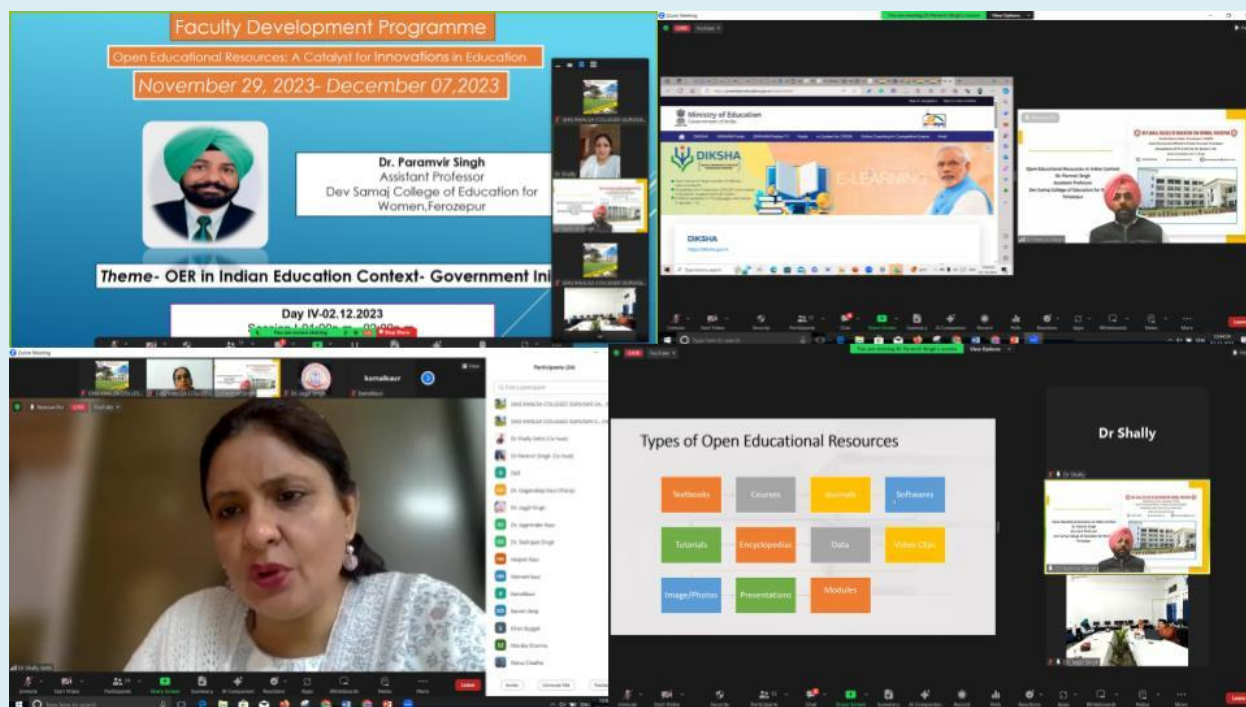
Day 4 (Session II)- December 02, 2023

Resource Persons- Dr. Amit Ahuja

University School of Education, GGSIP University, Delhi

Topic- Legal and Ethical Considerations in OER Adoption

Dr. Amit Ahuja, Associate Professor, University School of Education, Guru Gobind Singh Indraprastha University, Delhi, describes the topic- Legal and Ethical Considerations in OER Adoption.

Dr. Amit explained OER Concept that free shareable resources which have open licenses are useful for teaching, learning and research. He describes OER as having been released under an open license that permits their free use and re-purposing by others or reside in public domain. Dr. Amit talked about Myths associated with OER which are as:

- OER means "simply free"
- All OER digital
- You get what you pay for
- Copyright for OER is complicated

- OER are not sustainable
- Open textbook lack Ancillaries
- The institution is not ready for OER

Dr. Amit explained about OER Licenses-The creative common Public Domain Dedication- CCo is public dedication tool which allows creators to give up their copyright and put their works into world wide public domain. Dr. Amit clarified OER: Licenses (Most to least Permissive)-He explained how to apply License to your work- Licensor should know about scope of License, Pay attention to what exactly is being licensed, attribution etc.

Dr. Amit enlightened Legal and ethical issues in OER adoption and also explained how to avoid legal and ethical issues. Subsequent the presentation, an engaging question and answer session allowed participants to seek explanations, share insights, and further discover aspects of the Legal and ethical issues in OER adoption.

In the continuation of the 'Faculty Development Program' at GHG Khalsa Colleges, Gurusar Sadhar, two enlightening workshops took place on December 4, 2023, centering around Open Educational Resources (OER). Mrs. Rupinder Kaur, from Innocent Hearts Group of Institutions, Jalandhar, orchestrated the event, introducing the esteemed resource persons for the day—Dr. Rohan Vilas Mamta Gavankar and Dr. Deepika Kohli.

During the session on 'Designing Interactive Learning Experiences with OER: Experience Sharing,' Dr. Rohan Vilas Mamta Gavankar, Assistant Professor at the Department of Botany and Biotechnology, Viva College, Virar West, University of Mumbai, delved into strategies for crafting captivating educational content using OER. His emphasis included essential pedagogies and the incorporation of online tools like Nearpod to elevate learning experiences. Dr. Gavankar encouraged the formation of a community around OER, fostering the sharing of experiences, best practices, and resources among educators.
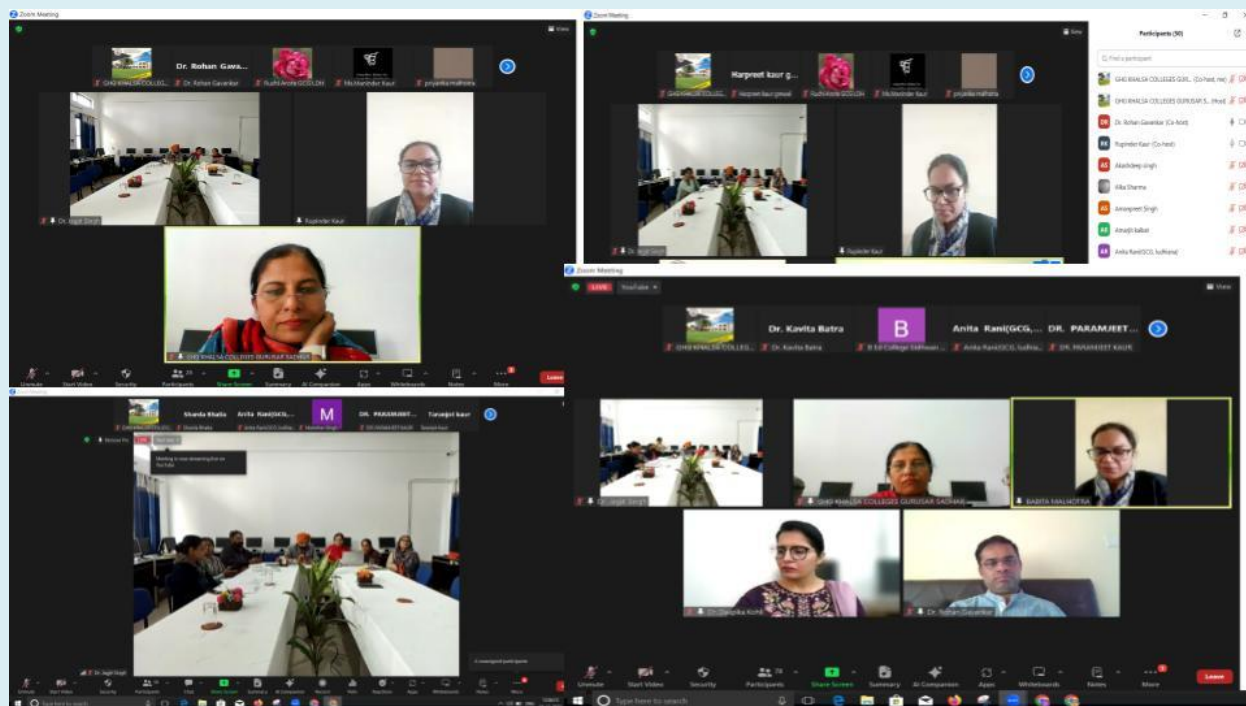
Day 5 (Session II)- December 04, 2023

**Resource Person Dr. Deepika Kohli Assistant Professor**

Khalsa College of Education, Amritsar
Theme-Open Education Resource: Opportunities for Research

Dr. Deepika Kohli, Assistant Professor at Khalsa College of Education, Amritsar, explored the theme 'Open Education Resource: Opportunities for Research.' Her presentation covered various

research platforms and tools, offering insights into diverse research dimensions within the realm of open education resources. Dr. Kohli highlighted how OER enriches the traditional research toolkit by incorporating openly licensed educational materials, thereby providing accessible knowledge. Participants were informed about national initiatives such as Saksham, Eklavya, NIOS, and others, encouraging researchers to leverage OER.

The sessions, marked by interactivity and information exchange, witnessed active engagement from approximately eighty attendees representing various colleges. The workshops proved to be invaluable, offering profound insights that benefitted all participants.
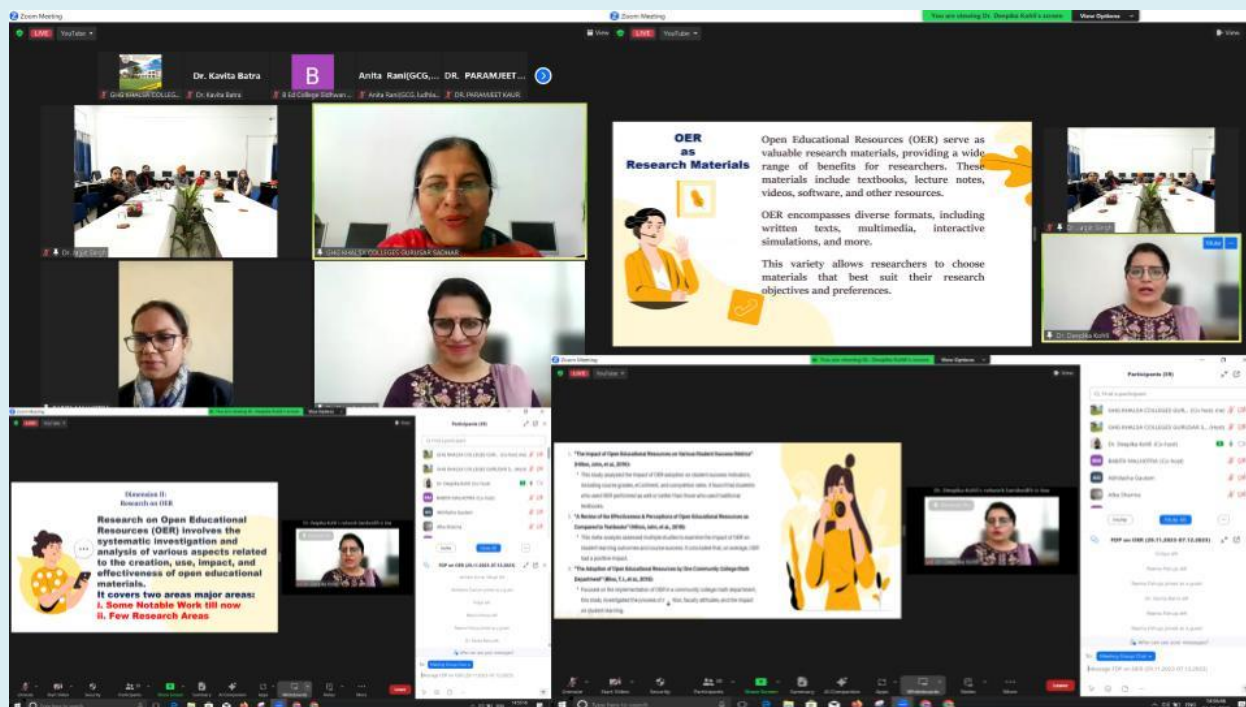
Day 6 (Session I)- December 05, 2023

Resource Person- Dr Sanjay Kumar, Principal,

Saraswati College of Professional Studies, Ghaziabad, UP

Topic: Open Educational Resources: Teacher Education and School Education

The session on "Open Educational Resources: Teacher Education and School Education" delivered by Dr Sanjay Kumar aimed to explore the multifaceted benefits, strategies, challenges, and prospects of utilizing Open Educational Resources (OER) in both teacher education and school education. While giving the introduction, Dr Kumar spoke about Open Educational Resources (OER) and its significance in modern education. He discussed the core principles of OER:

openness, accessibility, and adaptability. He also highlighted the potential of OER in promoting collaborative learning and knowledge sharing among educators.

Elaborating on how OER supports Teacher Education and School Education, Dr Kumar shed light on the strategies and methodologies for integrating OER into the curriculum. He showcased examples and case studies of the successful incorporation and implementation of OER. He said that exploring diverse OER platforms, repositories, and tools along with group activities focusing on creating lesson plans and educational materials using OER can create a personalized learning environment and can enhance the academic performance of both faculty and students. He exhorted the participants to foster a culture of OER adoption and collaboration among educators.

Further, Dr Kumar talked about the implementation challenges involved in the use of OER. He highlighted specific challenges such as technological barriers, traditional outlook, digital citizenship, etc. in adopting OER. He also shared real-world case studies demonstrating the effective integration of OER.

In the last segment of his presentation, Dr Kumar deliberated on exploring the potential impact of OER on widening access to quality education and promoting lifelong learning. He said that the future of OER will witness the integration of immersive technologies such as virtual reality (VR) and augmented reality (AR) to create interactive and experiential learning resources. This will enable students to explore complex concepts through simulations and hands-on experiences.

The Faculty Development Programme provided valuable insights into the transformative potential of Open Educational Resources in enhancing both teacher education and school education. Participants gained a deeper understanding of the strategies, challenges, and benefits associated with integrating OER into educational practices. The event concluded with a call to embrace OER to foster innovation, collaboration, and inclusive education for a brighter future.
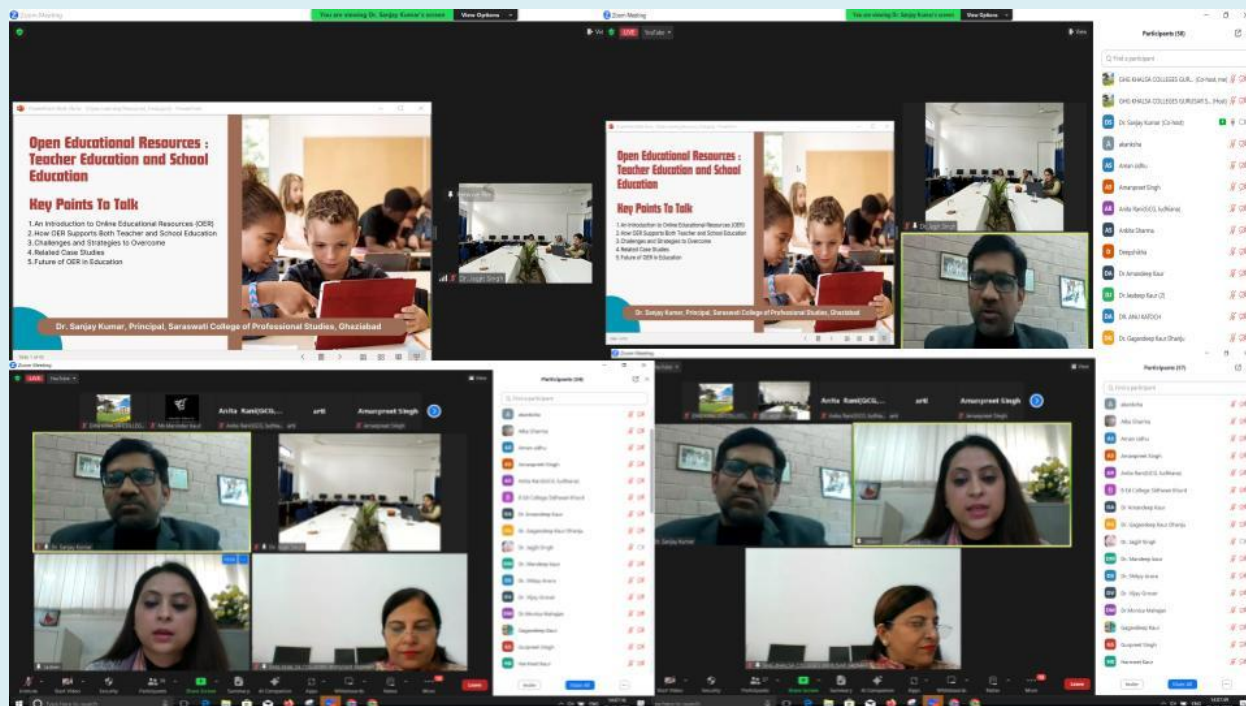
Resource Person: Dr. Rekha Chavan

Associate professor, Department of Education, SNDT Women's University, Mumbai

Title: Design and Development of MOOCs using OER

The Faculty Development Programme on the topic "Design and Development of MOOCs using OER" was conducted by Dr. Rekha Chavan. The session aimed to provide insights into designing and developing Massive Open Online Courses (MOOCs) using Open Educational Resources (OER), covering various aspects such as the Four Quadrant Model, types of MOOCs, learner-centric approaches, planning strategies, available platforms, and the advantages and limitations of MOOCs.

Session Overview: Dr. Rekha Chavan initiated the session by emphasizing the importance of strategic design and development in creating effective MOOCs. She highlighted the need for structured content, engaging multimedia, interactive elements, and assessments in the design phase. The Four Quadrant Model was introduced, illustrating the integration of content, interaction, assessment, and certification. Dr. Chavan elucidated how each quadrant plays a crucial role in the overall effectiveness of a MOOC.

The session also covered the various types of MOOCs, including cMOOCs (connectivist MOOCs) and xMOOCs (instructionalist MOOCs). Dr. Chavan elucidated on their differences,

methodologies, and suitability for different learning objectives. Attendees were guided through the planning phase of MOOC development, focusing on identifying learning outcomes, structuring content, selecting appropriate technologies, and creating engaging learning activities. Dr. Chavan highlighted the significance of learner-centric approaches in MOOCs. She discussed the importance of personalization, adaptive learning, and catering to diverse learning styles to enhance the learner experience. An overview of prominent platforms offering MOOCs such as Swayam, Canvas, Coursera, edX, Udemy, and FutureLearn, etc. was presented. Dr. Chavan discussed the features, reach, and specialties of each platform. The session concluded with a discussion on the advantages of MOOCs such as accessibility, scalability, and flexibility. Moreover, Dr. Chavan addressed the limitations including issues of completion rates, assessment credibility, and the digital divide. The Faculty Development Programme conducted by Dr. Rekha Chavan provided a comprehensive understanding of the intricate aspects involved in designing and developing MOOCs using OER. Attendees gained insights into strategic planning, learner-centric approaches, types of MOOCs, available platforms, and the opportunities and challenges associated with MOOC implementation.

The session concluded with an interactive Q&A segment, allowing participants to seek clarification and delve deeper into specific areas of interest regarding MOOC development.The event concluded with appreciation extended to Dr. Rekha Chavan for her insightful and comprehensive session on MOOCs and OER.
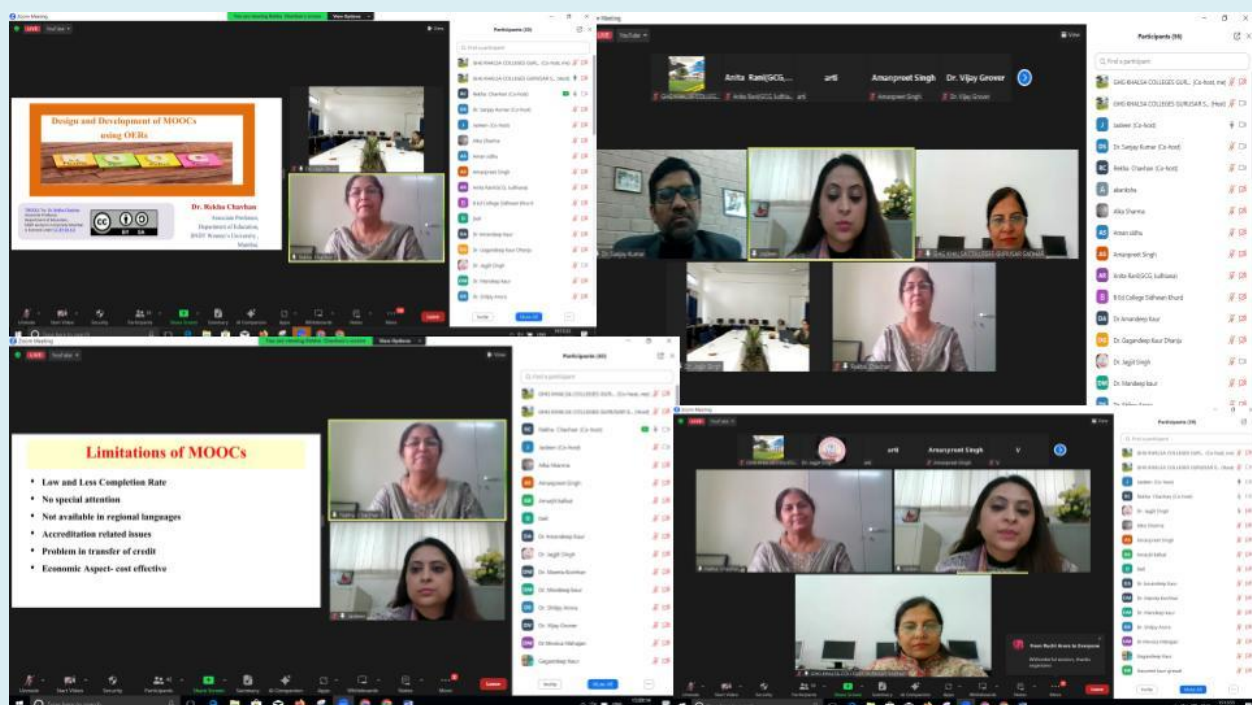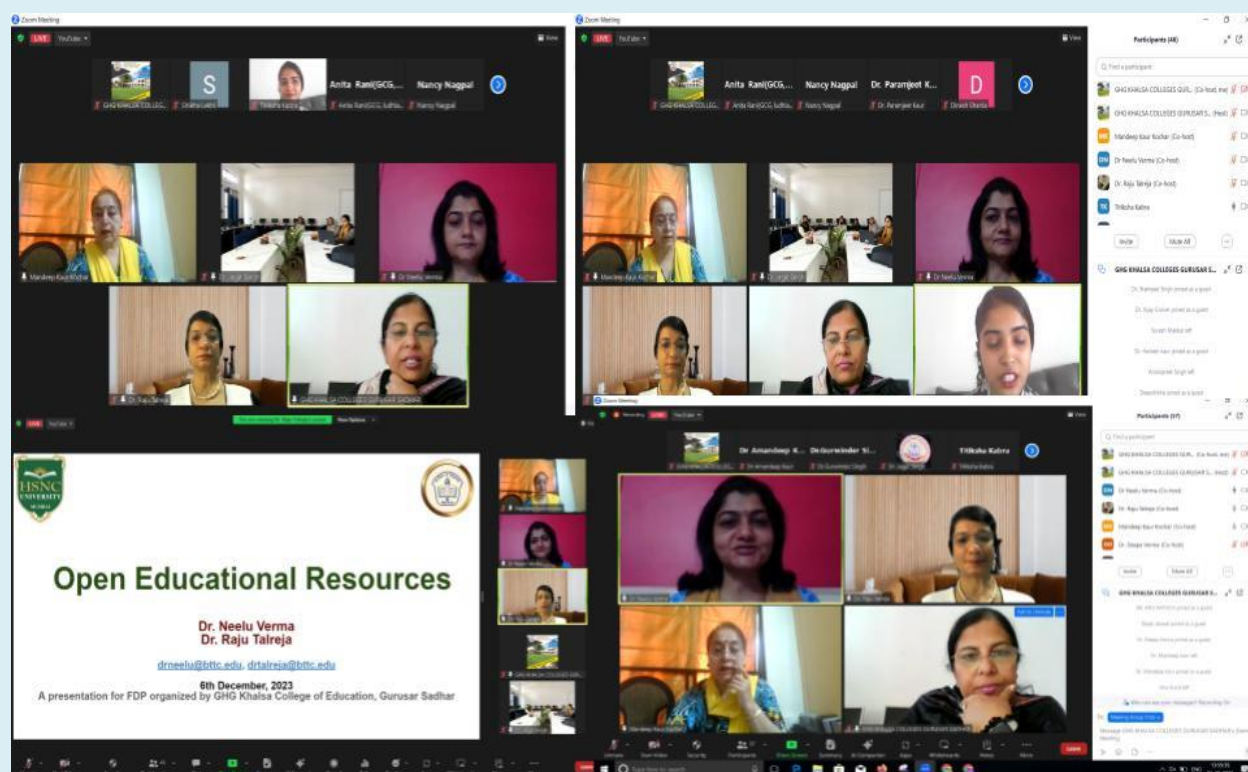
Dr. Raju Talreja and Dr. Neelu Verma
Bombay Teacher's Training College, Mumbai

Topic- Integration open Education Resources and e-learning

Dr. Mandeep Kaur Kochar from BTTC, Mumbai started the introductory phase of session 1. She welcomed all the dignitaries present in FDP. Assistant Professor Dr. Neelu Verma and Dr. Raju Talreja were the resource persons from Bombay Teacher's Training College, Mumbai. They acknowledged the website edpuzzle.com which shows how to use OERs in classrooms. In this edpuzzle.com, they interacted with participants followed by a question answering session. They elucidated how to identify soft skills and its importance in the personal and professional life of an individual. Dr. Neelu Verma explained the three types of soft skills i.e. personal, social and leadership skills in an appropriate way. Several OER Platforms and repositories offer resources for soft skill development like OER Commons (Digital Library), MERLOT (Curated Collection of Free & Open Online Teaching) and Skills Commons (workforce development) etc. Dr. Raju Talreja described that soft skills can be learnt through practice, integrated with life skills, absorbed through self study and learnt digitally through OERs followed by concluding remarks. Assistant Professor Gagandeep Kaur from Guru Teg Bahadur Khalsa College of Education Dasuya extended vote of thanks and the session ends here.

Dr. Deepa Verma

Vice Principal, VIVA College of Arts, Commerce and Science, University of Mumbai

Topic - Quality concern and challenges in using OER

Resource person- Dr. Deepa Verma, Vice-Principal, VIVA college of Arts, Commerce & Science University of Mumbai

Dr. Deepa commenced her presentation by defining the Concept of OER. While elaborating on the concept of OER she said that OER are free digitized materials offered to educators, students and self learners under a creative commons (or other Open) license that allows users to copy, use, adapt and redistribute for educational and research purposes. Later she explained the 5 R's of OER which includes retain, Reuse, Revise, Remix and redistribute.

Dr.Deepa elaborated the various **challenges and quality concerns with respect to OERs which include :**

Quality issues -Since many OER repositories allow any user to create an account and post material some resources may not be relevant or accurate.

Extra efforts are required to adopt OERs-Adopting OERs in the classroom involves additional work on the part of faculty, instructional designers, editors,digital rights specialists and others in order to find the OERs, adapt/modify them, check them for availability, verify and copyright issues, publish the resources in the institution's LMS, and so forth.

Lack of human interaction between teachers and students-OER material is created to stand alone and since self-learning users may access the material outside of a classroom environment they will miss out on the discussion and instructor feedback that characterize credit classes and that make such classes useful and valuable.

Technological Issues-Some students may have trouble using some OERs if they have a slow and erratic internet connection. Other OERs may require software that students don't have and that they may not be able to afford.

Language and cultural barrier -Although efforts are being made to make OERs available to English speakers. Additionally not all resources are culturally appropriate for all audiences.

Static Formats-Some OERs are published in digital formats that make it hard to download, access and modify the content.

Intellectual Property/Copyright Concerns-Since OERs are meant to be shared openly, the "fair use" exemption from the U.S. Copyright Act ceases to apply; all content put onl;ine must be checked to ensure that it doesn't violate copyright law.

Sustainability Issues -Since OER creators generally do not receive any type of payment for their OER, there may be little incentive for them to update their OER or to ensure that it will continue to be available online.

While summarizing her topic Dr. Deepa said that technology is an effective tool that can make education more meaningful and engaging for teachers and students alike.
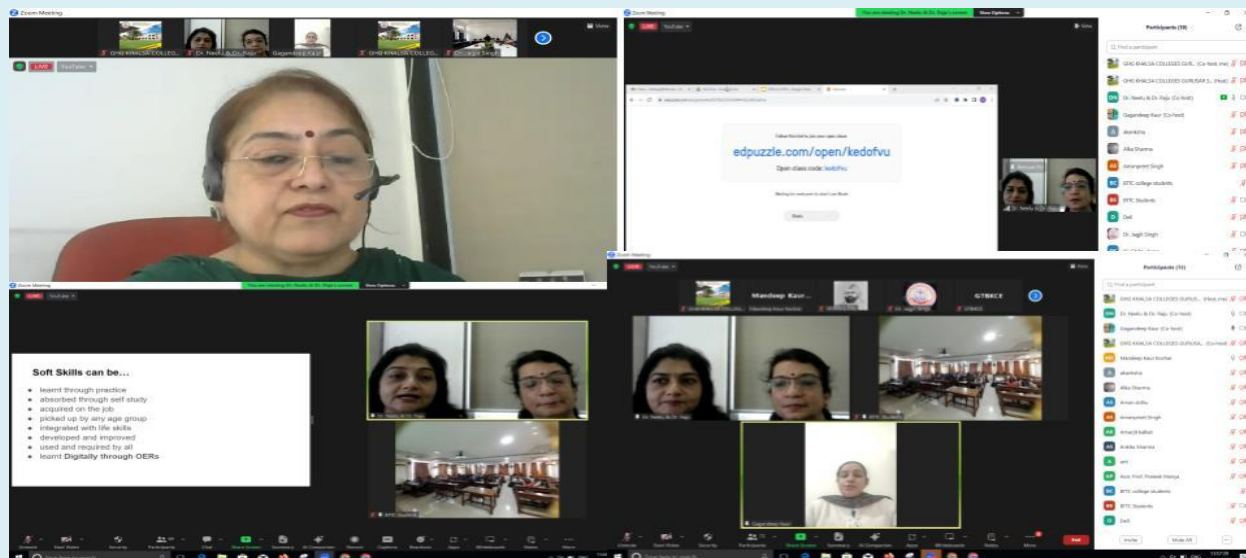

Day 8 (Session I)- December 07, 2023

Resource Person 1- Dr. Neelu Verma, Assistant Professor
Bombay Teacher's Training College, Mumbai

Resource Person 2- Dr. Raju Talreja, Assistant Professor
Bombay Teacher's Training College, Mumbai

Topic: OER on Soft Skills

Dr. Mandeep Kaur Kochar from BTTC, Mumbai started the introductory phase of session 1. She welcomed all the dignitaries present in FDP. Assistant Professor Dr. Neelu Verma and Dr. Raju Talreja were the resource persons from Bombay Teacher's Training College, Mumbai. They acknowledged the website edpuzzle.com which shows how to use OERs in classrooms. In this edpuzzle.com, they interacted with participants followed by a question answering session. They elucidated how to identify soft skills and its importance in the personal and professional life of an individual. Dr. Neelu Verma explained the three types of soft skills i.e. personal, social and

leadership skills in an appropriate way. Several OER Platforms and repositories offer resources for soft skill development like OER Commons (Digital Library), MERLOT (Curated Collection of Free & Open Online Teaching) and Skills Commons (workforce development) etc. Dr. Raju Talreja described that soft skills can be learnt through practice, integrated with life skills, absorbed through self study and learnt digitally through OERs followed by concluding remarks. Assistant Professor Gagandeep Kaur from Guru Teg Bahadur Khalsa College of Education Dasuya extended vote of thanks and the session ends here.

Day 8 (Session II)- December 07, 2023

Valedictory Phase

Valedictory Phase of Faculty Development Programme was commenced by IQAC Co-ordinator Dr. Mandeep Kaur Kochar, BTTC Mumbai followed by report presentation. She invited all collaborating Principals to briefly talk about the FDP and Open Educational Resources and its importance in global world. Dr. Pawan Kumar, Principal A.S. College of Education, Khanna, congratulated Dr. Pargat Singh Garcha and his team for this successful venture. Dr. Suman Lata, Government College for Girls, Ludhiana, marks OER as catalysts and teachers will be benefitted from these resources definitely in near future. Dr Gagandeep Kaur Dhanji, Innocent Hearts College of Education, Jalandhar appreciated the collaborative efforts of entire team of faculty development programme, Dr. Varinder Kaur, Guru Teg Bahadur Khalsa College for Women, Dasuya talked about the practical application and usage of OER's in real classroom, Dr. Mandeep Kaur IQAC Co-ordinator, D.A.V College of Education Abohar talked about FDP on OER's as a wonderful experience and learning opportunity. Dr. Amandeep Kaur, GHGH College of Education for

Women, Sidhwan Khurd provided an insight about much needed OER topic in this today's global world.

Last but not the least, a formal vote of thanks by Dr. Bhagwan Balani, Registar & Dean of Humanities, HSNC University, Mumbai & Principal BTTC followed by national anthem.