Report on One Week Faculty Development Program on the topic
"Development of MOOCs: Concepts and Tools" from 10th to 16th March 2022

Internal Quality Assurance Cell(IQAC) of Army Institute of Education in collaboration with Pandit Madan Mohan Malviya National Mission of Teachers and Teaching Ministry of Education(PMMMNMTT), TLC of Ramanujam College(DU) organized a One Week **Faculty Development Programme** on **"Development of MOOCs: Concepts and Tools"** from 10th to 16th March 2022. The FDP was self-paced and the participants could gain graded certificates after successful completion of the course. The organizing board consisted of Prof S P Aggarwal, Principal, Ramanujan College & Director Teaching Learning Centre, and Dr Abhilasha Gautam, Principal AIE along with Dr Nikhil Kumar Rajput of Ramanujan College, Delhi University convened the programme. Dr Ashish Shukla of Ramanujan College, Delhi University, Dr Babita Bhardwaj, Asst Prof, AIE and Dr Kavitha N Karun, Asst Prof, AIE were the coordinators of the FDP.
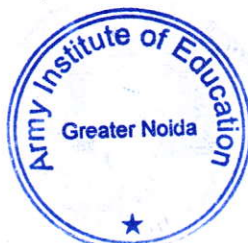
The online Faculty Development Programme aimed to develop the required skills to effectively utilize ICT tools and make them an essential component of the teaching learning framework. The various themes for the FDP were as follows:

1. Developing e- content
2. Four Quadrant prescribed by Ministry of Education
3. Open Broadcaster Software
4. Introduction to MOOCs & MOOCs Production
5. Creating MOOCs using MOOCSHUB
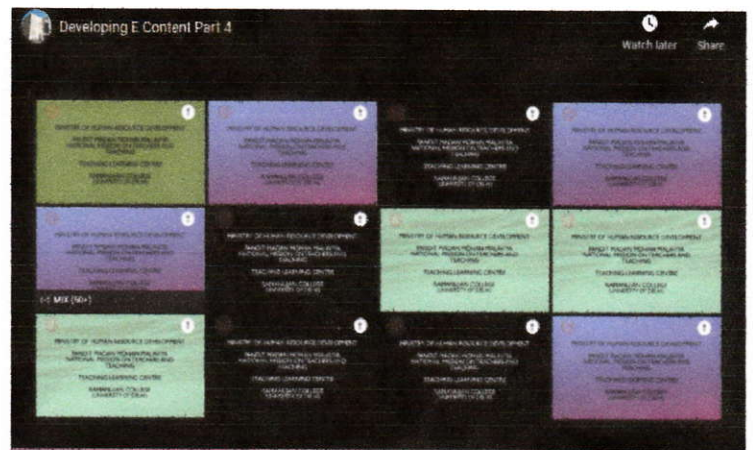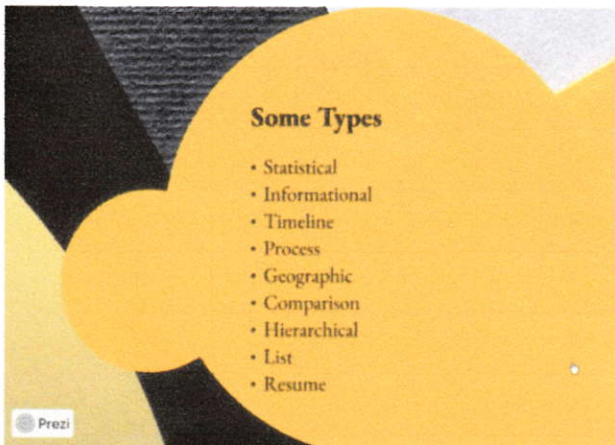6. OER and Creative Commons License

The Resource Persons of the FDP were Ms Bhavya Ahuja Grover, Assistant Professor, Department of Computer Science, Ramanujan College, Delhi University, Dr Nikhil Kumar Rajput, Assistant Professor, Department of Computer Science and Deputy Director, Teaching Learning Cell, Ramanujan College, University and Ms. Sheetal Singh, Assistant Professor in the Department of Computer Science, Ramanujam College.

Day 1

The Day 1 of FDP was centered on the theme of E-Content with special reference to development of E-content. The resource person for the day was Ms. Bhavya Ahuja Grover who taught with pre recorded video lectures on the same topic. The major areas of discussions were definition of e content, major advantages, info graphics, phases of e-content development, exploring e content types, tips for developing e content etc. The content was presented in the form of prerecorded video lectures. In total there were 14 video lectures, a word document carrying some cliff notes & information & a small quiz in the end based on the content being covered in the videos.

The quiz was a graded one which needed to be completed within a specific time frame. Overall it was a very informative first day of a weeklong FDP adding very useful knowledge to the user.

Snippets from day 1- 10 Mar 2022 of FDP

DAY 2

The central theme for day 2 of FDP was the "Four Quadrant Approach for developing MOOCs". The resource person for the day was Dr. Nikhil Rajput, Asst. Prof. , Department of Computer Science and Deputy Director, Teaching Learning Cell, Ramanujam College, University of Delhi. The 2nd day of the FDP enabled a learner to clearly understand the Four Quadrant Approaches which will help the learner to deepen one's knowledge to develop MOOCs. It also explained the various ways to develop e content, how to record video lectures, use of contemporary ICT tools to develop e content, discussion forums for feedbacks & creating uniform assessment tools for evaluation. The Four Quadrant Approach talks about the four aspects of developing MOOCS namely:

- Video lectures
- E-content
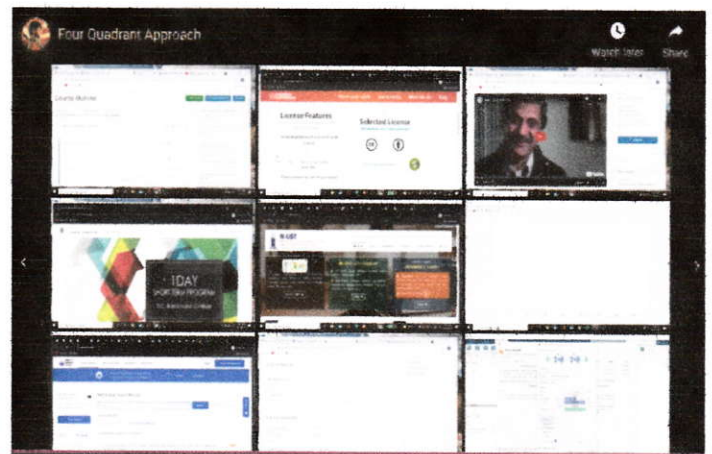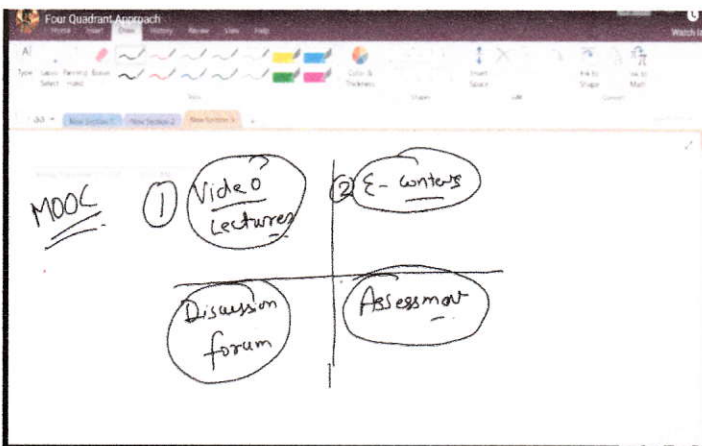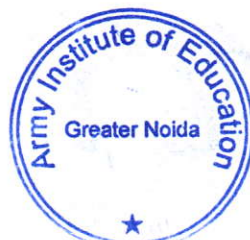- Discussion Forums &
- Assessment

Figure 1 Figure 2 Snippet from Day 2- 11 Mar 2022 Four Quadrant Approach video lecture

DAY 3

The topic for day 3 of the FDP was "Open Broadcaster Software". The session was taken by Dr. Nikhil Rajput, Department of Computer Science and Deputy Director, Teaching Learning Cell, Ramanujam College, University of Delhi. The 3rd day session comprised of 4 documents, 1 assignment, 1 quiz & 8 videos in total. The video explained that the Open Broadcaster Software, or OBS is a free and open source solution for offline video recording and live streaming & is Mac & Windows compliant. It is free, open-source, and cross-platform screen casting and streaming app. The assignment for the day included participants to create three videos using OBS and edit it using OpenShot. After the successful completion one video was asked to upload on Google Drive and other two videos on YouTube & make all three public. The quiz consisted of 7-8 questions on the content being covered in the video lectures.
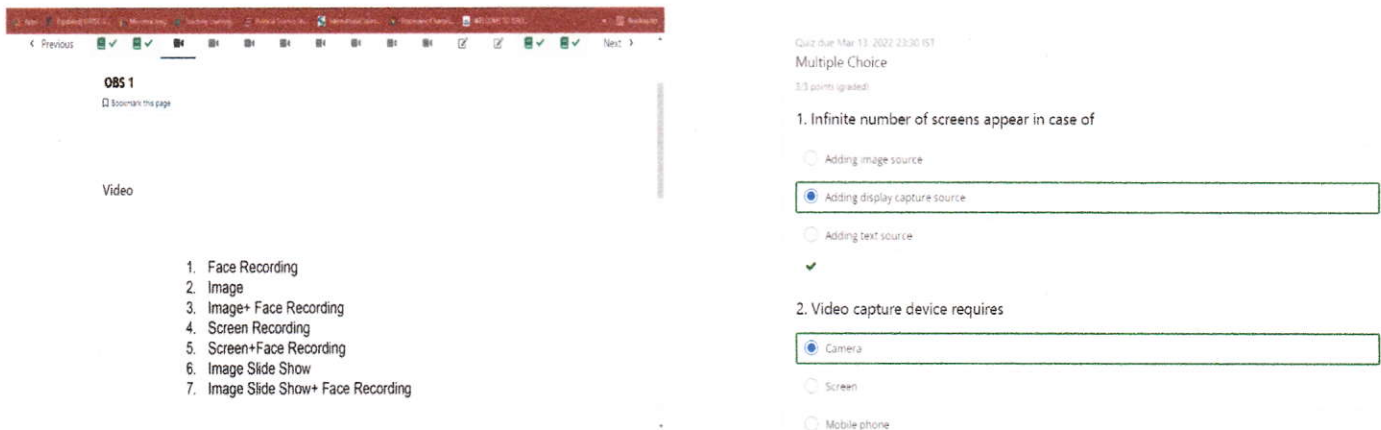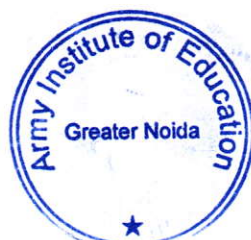

Figure 2 Snippets from Day 3 -12 Mar 2022 FDP on OBS & a quiz

Day 4- SUNDAY

Day 5

The session of the Day 5 was divided into two parts; Part 1& 2. The resource person for the day was Ms. Sheetal Singh, Assistant Professor in the Department of Computer Science, Ramanujam College. The central theme for part 1 of the session was "Google Meet". The session talked about Google meet as a video-communication service developed by Google and anyone with a Google Account can create a video meeting, invite upto 100 participants, and meet for up to 60 minutes for free. The session also discussed the advantages of using meet to create engaging online classroom experience and conduct meetings. The video lectures were facilitated by a quiz afterwards. There was also a graded assignment included in the session with participants asked to schedule a Google meet, invite & add other participants, share a template, save all these activities & upload them in form of a file.

Part 2 of the session was taken by Dr Nikhil Rajput, Department of Computer Science and Deputy Director, Teaching Learning Cell, Ramanujam College, University of Delhi. The main theme of the session was OER & Creative common license. The session discussed about Open educational Resources and its application in making teaching learning more effective. Dr. Rajput explained that Wikipedia, Gutenberg.org, MIT OpenCourseWare, open.edu are popular OERs which can assist in creation of MOOCs using their available content online. The final session elucidates about the creative commons license.

The video lectures further elaborated that the creative commons copyright licenses and tools forge a balance inside the traditional "all rights reserved" settings that copyright law creates. The tools give everyone from Individual creators to large companies and institutions a simple, standardized way to grant copyright permissions to their creative work.
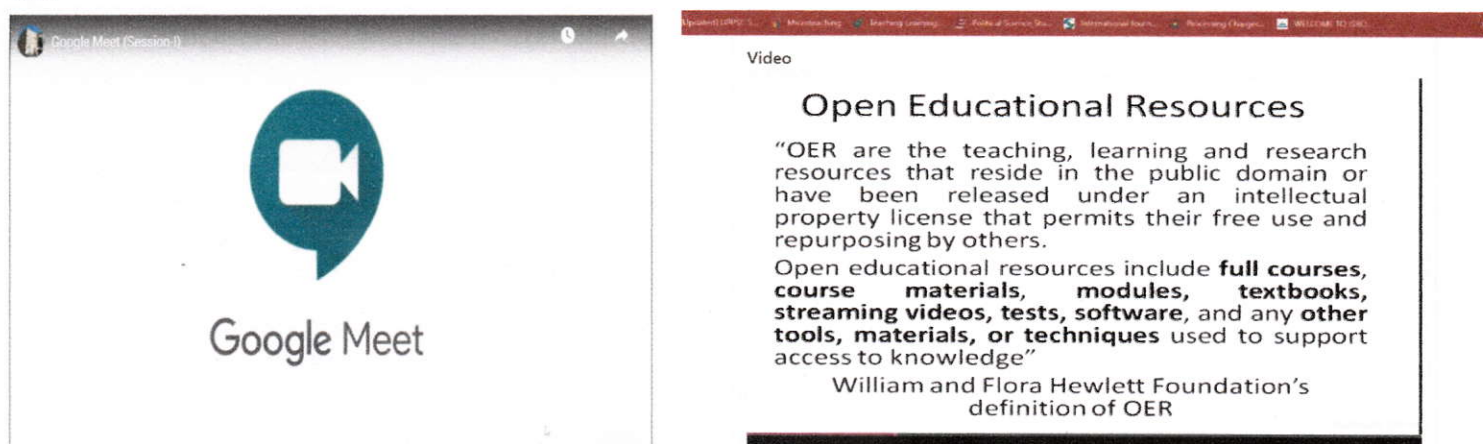

Figure 3 Snippets from Day 5 of FDP -14 Mar 2022   "Google Meet" & 'OERs"

DAY 6

The session of the Day 6 was divided into two parts; Part 1&2. The part 1 of the session was centered on the topic "Introduction to MOOCs". The resource person for the day was Dr Nikhil Rajput, Department of Computer Science and Deputy Director, Teaching Learning Cell, Ramanujam College, University of Delhi. He discussed about the Learning Management System through open edX platform. The session outlined the reasons for creating one own's MOOCs. The MOOCs can be accessed from anywhere and anytime by alarge audience which is difficult to replicate in a classroom set up. Examples from different MOOCs platforms like SWAYAM, edX, Coursera amongst others were demonstrated in the session. The tools essential for creating MOOCs were also discussed very well in the session.

Part 2 of the session centered on the topic of "Creating your own MOOCs". The session introduced MOOCHUB platform to the learners & participants enrolled in the session. The platform facilitates making MOOCs in a few simple steps & also discussed in detail about the steps of making MOOCs using the MOOCHUB platform.

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<u>DAY 7</u>

The final day of the FDP culminated with a final graded quiz consisting of 20 questions based on the course content being covered during the week long FDP. The final quiz was held on 16th March 2022 & was open to be attempted during 5.30 A.M. to 11.30 P.M.
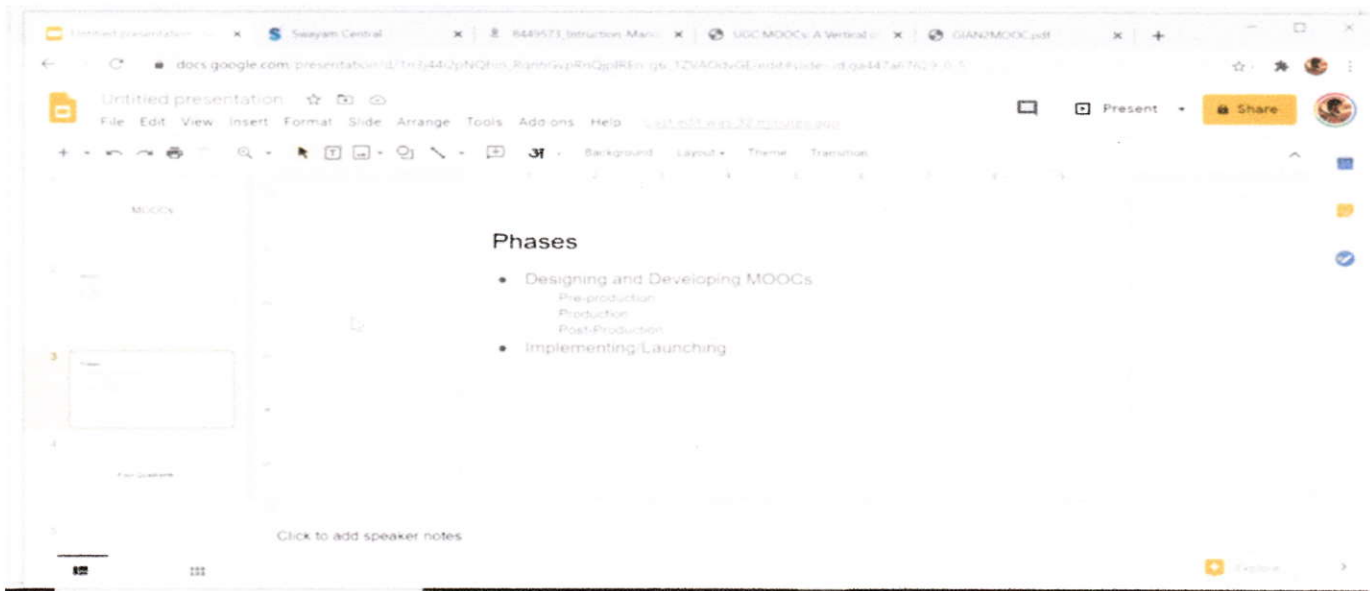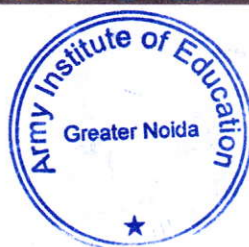

Figure 4 Snippet from Day 6 -15 Mar 2022   of the FDP "Phases of Designing & Developing MOOCs"

Learning Outcome of the FDP- Faculty members from various universities got an opportunity to get training in the concepts and tools needed to develop e-content. Participants were also acquainted with the four quadrant approach, digital tools for teaching pedagogy, video and audio applications and open educational resources.

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