

3/07/2023

Programme Report

"Empowering Educators: A Technology Training Workshop for Teachers"

Organized by
School of Science, NSOU:



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2 Introduction:

In today's digital age, teachers need to have a strong understanding of technology to effectively engage and motivate students. The technology based teaching learning becomes more and more important in the context of Open University(OU) for providing more flexibility, accessibility to its large number of learners in lower cost. As a result, all the decision-making authorities are currently encouraging the higher educational institutes(HEIs) to develop MOOCs, E-Modules etc. which is very important components of online teaching-learning process. Although there is plethora of standard procedures of preparing MOOCs, e-Modules are in place, it is quite challenging for a teacher to prepare online materials for following reasons. Learning new tools/techniques recently developed/upgraded in educational domain is a time consuming process for teachers unless they have prior expertise on the same. Even though there are standard process and platform (SWAYAM/Institutional LMS etc.) defined for creating materials, but it needs lot of coordination between different teams and approval from different stakeholders which often incurs delay in producing final materials.

In the context of NSOU or any other OU with large enrollment and variety of courses, it is very important to have an ecosystem where teachers can deliver their customized material smoothly to the target group without spending much time in the intermediate process. This could only possible if the teachers have a decent knowledge on tools and techniques which is simple but efficient, easy-to-integrate and cost-effective so that they can handle many tasks by their own. This workshop is organized to provide an opportunity for teachers to enhance their technological skills and knowledge on these modern tools/techniques, and explore innovative strategies for integrating technology into

online teaching and learning process. Table – 1 shows the detailed information of the workshop.

Workshop Title	"Empowering Educators: A Technology Training Workshop for Teachers"
Date	June 05, 2023
Venue	Subhas Chandra Sabhaghar Seminar Hall, Netaji Subhas Open University, DD-26, Sector-I, Kolkata-700 064
Organizer	School/Dept : School of Sciences, NSOU
	Chief Patron: Hon'ble Vice-Chancellor, NSOU
	Chairperson: Dr. Bibhas Guha, Officer-in-Charge, School of Sciences, NSOU
	Advisor: Prof. Anirban Ghosh, Director, CIQA, NSOU
	Organizing Secretary: Dr. Soumen Nandi, Assoc. Prof. of Comp. Sc., NSOU. Mr. Mrinal Nath, Asst. Prof. of Comp. Sc., NSOU.
	Convener: Dr. Puspall Mukherjee, Asst. Prof. of Chemistry, NSOU
	Treasurer: Dr. Asif Ahamed, Asst. Prof. of Zoology, NSOU.

Table-1

3 Objectives

The objectives of the workshop are to

- Enhance teachers' knowledge and understanding of tools and resources for producing and delivering online material.
- Build teachers' confidence in integrating technology effectively into their teaching practices by demonstrating some case studies.
- Equip teachers with practical strategies for using technology to enhance student engagement and learning outcomes.
- Provide opportunities for teachers to share ideas and best practices with their peers.

4 Participation

The workshop brought together 32 participants from different schools of NSOU. The participants are primarily the faculty members of School of Sciences, NSOU. Apart from that, two faculty members from nominated by each school of NSOU also attended the workshop. The distribution of the participants according to their designation has been given in Figure 1.

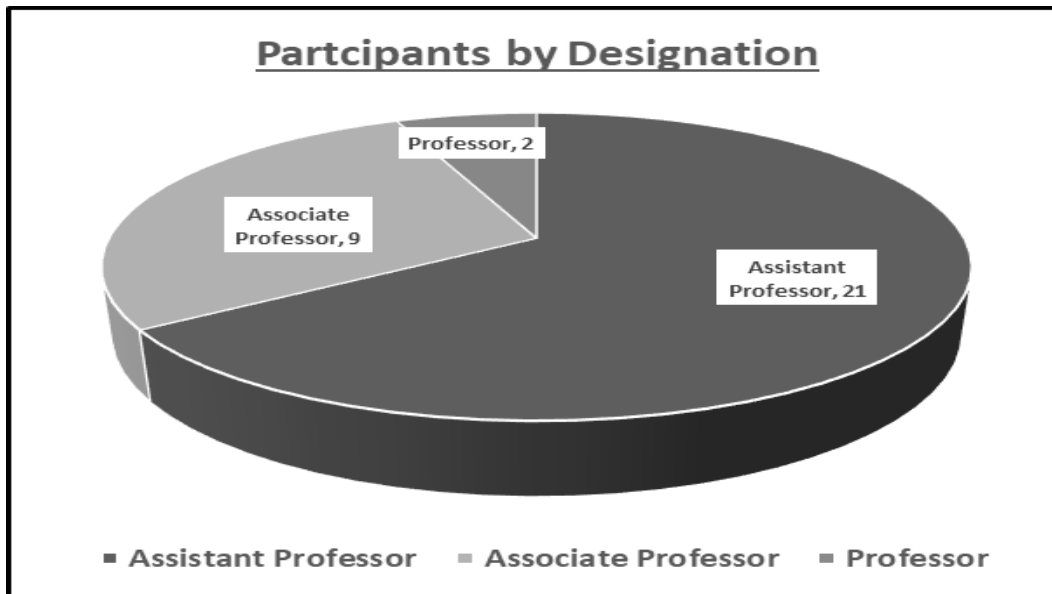


Figure 1.

5 Inauguration

The training workshop started at 12:15 P.M with a welcome address by Dr. Soumen Nandi, the Secretary of the workshop, followed by the Inaugural address by the Hon'ble Vice Chancellor of NSOU, Prof. Chandan Basu. Prof. Basu emphasized on the importance of effective online teaching learning and encourage the participants to involve more into the practice with new idea and innovations. Afterwards, Prof. (Dr.) Someswar Bhowmik, Officer-in-Charge, Centre for Online Education, NSOU, elaborately explained the methods for developing the MOOCs in Swayam Platform in his presentation. Dr. Bibhas Guha, Officer in Charge, delivered the presidential address and motivated the faculties to develop online materials/courses to cater the need of the hour. At the end of the inaugural session, a formal Vote of Thanks was proposed by Mr. Sandip Das, member of the organizing committee and wished all participants a good and successful training workshop. The entire workshop was hosted by Dr. Puspall Mukherjee, Convenor of the workshop.

6 Workshop Session and Discussion:

6.1 Technical Session 1:

Technical session 1 started at 1 P.M. Mr. Mrinal Nath, Asst. Prof. of Computer Sc., NSOU, introduced the participants of the workshop into the topic video recording tool Open Broadcaster Studio (OBS) and how to use the tool. Some highlights of his presentation were:

- OBS Installation in Windows platform:
- Configuration of different components of OBS:
Scenes, Sources, Settings, Display Capture, Video Capture, Audio Capture, Text Source etc.
- OBS Scene Transitions
- Use of key-board shortcut for screen management
- Video format and output generation.

The following questions were asked by the participants:

- What is the cost of OBS tool?
- What is the resource requirement to install OBS?
- How the scene transition will happen while the recording is in progress?
- What is difference between .mp4 and .mkv format?
- How to add a new filter into a source?

The questions were answered by the speaker with appropriate examples and demonstration of case study.

6.2 Technical Session 2:

Technical session 2 started after lunch at 2.30 P.M. Mr. Mrinal Nath, Asst. Prof. of Computer Sc., NSOU, introduced the participants of the workshop into the topics video editing tool Open Shot, Learning Management System Moodle and how to use these tools with real case study. Some highlights of his presentation were:

- Open Shot Installation in Windows platform:
- Importing, splitting and exporting of video clip
- Adding multiple video into the timeline
- Trimming and Slicing of video clip
- Basic Moodle Framework
- Handling different activity like Video, PDF, Assignment, Quiz, Discussion Forum, Survey, Feedback in Moodle.
- Sample video file uploading into NSOU learning app.

The following questions were asked by the participants:

- How to create a single video file from multiple pieces of edited video clip?
- How to use video streaming platform?
- What video streaming platform is used by NSOU app?

- Can we provide user specific restriction in Moodle activity?

7 Closing:

Mr. Mrinal Nath thanked all the participants and officially closed the workshop at 4-30 P.M.

8 Workshop Outcome

The participant's feedback was collected after the workshop. Several questions were asked to measure the impact/outcome of the workshop. Based on the feedback future actions are identified and proposed.

8.1 Participants Feedback

Table - 2 provides feedback questionnaire which was used to evaluate the measure quality and outcome of the course.

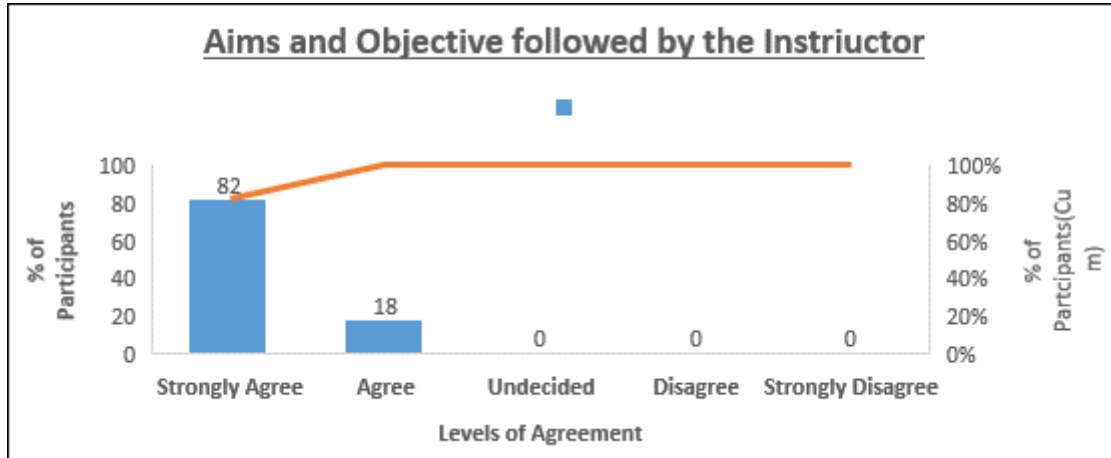
Feedback Questions
1. Were the aims, objectives and learning outcomes of the topic clearly stated and followed by the instructor?
2. Will you be able to start developing e-modules by your own After the workshop?
3. Did the workshop content meet your expectations?
4. How would you rate the quality of the training?
5. Did you learn anything new?
6. Was the training relevant to your needs?
7. Would you recommend the training to your colleagues?

Table - 2

The responses collected for Question 1, 4 6 have been captured using frequency plot in **Figure 2**. The diagram reflects the following results:

- More than 90% of the participants are in agreement that instructor follows the aims, objectives and learning outcome of the training.

- More than 90% of the participants think the quality of the training is either outstanding or very good.
- More than 90% of the participants are in agreement that the training is either highly or moderately relevant for them.



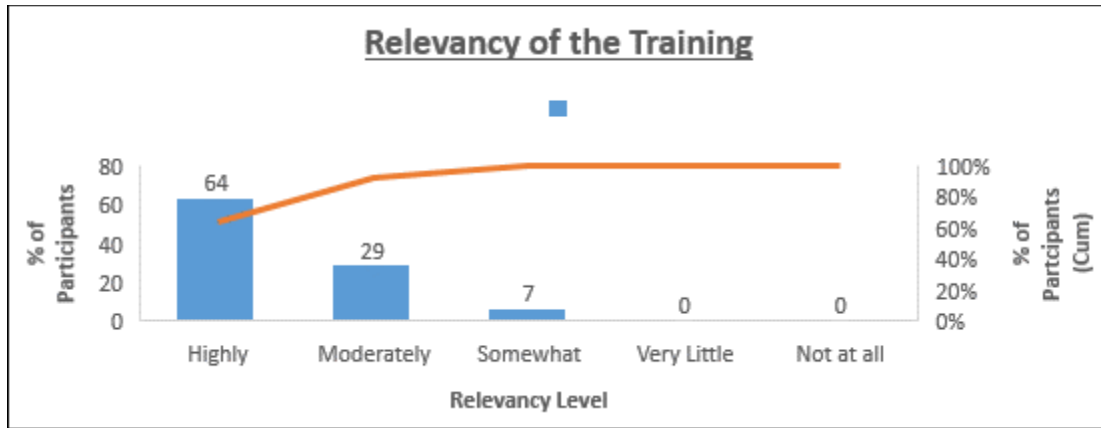
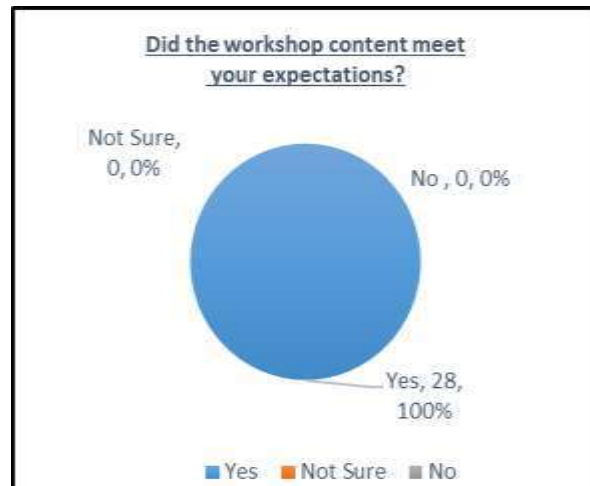


Figure 2

The responses collected for Question 2, 3, 5 and 7 to assess the learning outcome and the sentiment of the participants have been captured using Pie-chart in **Figure 3**. The diagram reflects the following results:



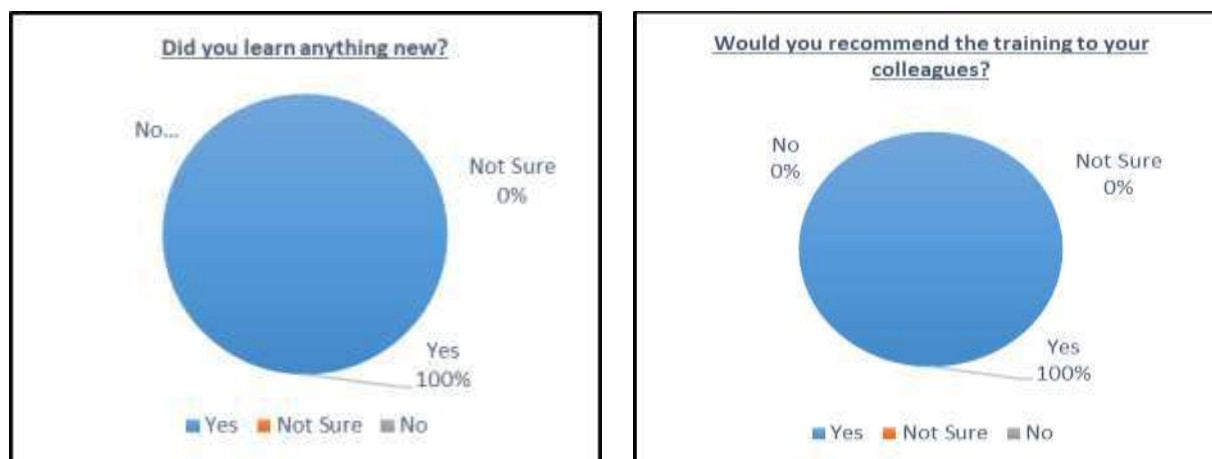


Figure - 3

- Almost 90% of the participants think that they can use the relevant tools to develop the e-module. This clearly indicates the training has positive impact among the participants.
- 100% of the participants agrees that the workshop meets their expectation and they have learned new skillset for online teaching learning process.
- All the participants will recommend the training to their fellow colleagues. This clearly reflects the importance of the training programme for all the faculty members of NSOU.

8.2 Participants Overall Comments

Few of the comments are given in the **Table – 3**.

Participants Name & Designation	Comments
Dr. Sudarshan Roy, Asst. Prof. of Commerce	Over all the workshop was excellent. But, one thing I should say could you please train us practically with some technical (computer) support. Simply, we need to be oriented practically with some electronic gadgets/ computer lab.
Dr. Debajit Goswami, Asst. Prof. of Public Administration	Good learning experience, thanks SoSc
Dr. Pabitra Mandal Asst. Professor of Special Education	Very nice programme. I'm highly appreciated for organising this programme.

Dr. Gautam Kumar Mallik, Assoc. Prof. of Physics	Excellent experience and objective of the workshop was fulfilled.
Dr. Biraj Kanti Mondal Asst. Prof. of Geography	It's very nice and significant.
Anirban Ghosh, Assoc. Prof. of Zoology	Very useful, focused and easily understood.
Tinki Kar Bhattacharya, Asst. Prof. of Geography	Excellent presentation and instruction given by Mr. Mrinal Nath. Another on hand training is required

Table - 3

9 Conclusion and Future Action Item:

The workshop provided a valuable platform for knowledge exchange and collaboration among participants. Most of the participants are suggested to extend the duration of the training workshop so that they get more opportunity to work with advance features of the tools and techniques. Considering the relevance of the topic and the enthusiasm of the participants the workshop committee recommends similar workshop with following specifications:

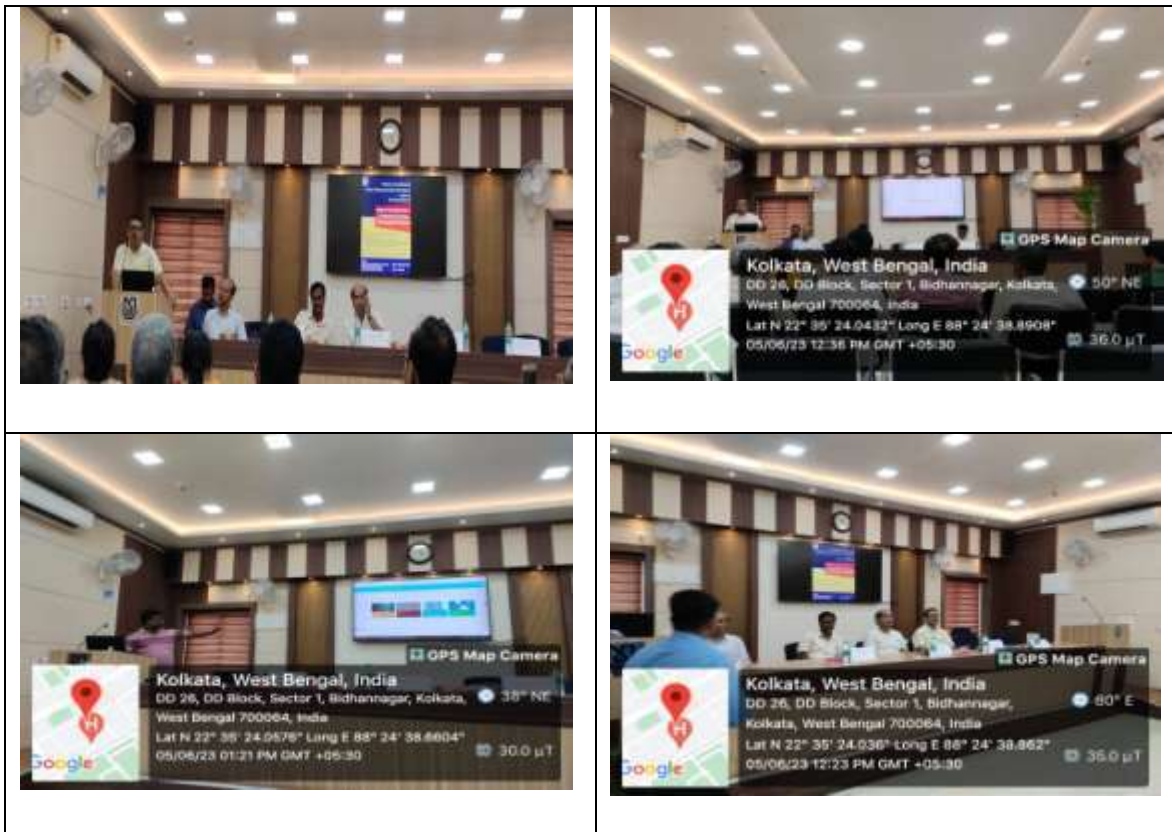
- Duration: 3 full Days
- Audience: All the faculties of NSOU (other HEIs may be included)
- The workshop venue should have the arrangement to use desktop/laptops for each participant along with the internet facility.
- Every participant should produce their individual e-module and present them after the workshop.

Placed before Hon'ble Vice-Chancellor for information/direction, through the Director, School of Sciences, NSOU

03 July, 2023

Mrinal Nath
Asst. Prof. of Computer Science
School of Sciences, NSOU

10 Photo Gallery



11 Annexure -1 (List of Speakers)

Serial Number	Name	Designation	Session/Lecture
1	Prof. Chandan Basu	Hon'ble Vice-Chancellor, NSOU	Inaugural Address
2	Prof.(Dr.) Someswar Bhowmik	Officer-in-Charge, Centre for Online Education, NSOU	Special Address
3	Dr. Bibhas Guha	Office - in Charge, School of Sciences, NSOU	Presidential Address
4	Dr. Soumen Nandi	Assoc. Prof. of Computer Science	Welcome Address
5	Mrinal Nath	Asst. Prof. of Computer Science	Technical Session 1 and 2
6	Sandip das	Asst. Prof. of Botany	Vote of Thanks

12 Annexure -2 (List of Participants)

Serial Number	Name	Designation	Subject
1	Dr. Sintu Ganai	Asst. Prof.	Chemistry
2	Dr. Sanjay Roy	Assoc. Prof.	Chemistry
3	Arijit Ghosh	Asst. Prof.	Journalism and Mass Communication
4	Prabir Naskar	Asst. Prof.	Special Education
5	Ashif Ahamed	Asst. Prof.	Zoology
6	Dr. Sudarshan Roy	Asst. Prof.	Commerce
7	Swapna Deb	Asst. Prof.	Special Education
8	Dr. Sanjib Kumar Chattopadhyay	Asst. Prof.	BOTANY
9	Sandip Das	Asst. Prof.	Botany
10	Tinki Kar Bhattacharya	Asst. Prof.	GEOGRAPHY
11	Ajit Kumar Sil	Assoc. Prof.	Geography
12	Debajit Goswami	Asst. Prof.	Public Administration
13	Swapna Deb	Asst. Prof.	Special Education
14	Anirban Ghosh	Assoc. Prof.	Zoology
15	Niladri Sekhar Mondal	Asst. Prof.	Environmental Science
16	Puspal Mukherjee	Asst. Prof.	Chemistry
17	Dr Sumana Bandyopadhyay	Asst. Prof.	ELT
18	Dr. Sudarshan Roy	Asst. Prof.	Commerce
19	Dr. Gahul Amin	Assoc. Prof.	Physics
20	Chandan Kumar Mondal	Asst. Prof.	Mathematics
21	Dr Sanjay Mandal	Assoc. Prof.	Zoology
22	Dr.Swapan Bhattacharyya	Assoc. Prof.	Botany
23	Dr. Ushnish Sarkar	Asst. Prof.	Mathematics
24	Soumen Nandi	Assoc. Prof.	Computer Science
25	Kasturi Sinha Ghosh	Asst. Prof.	Social Work
26	Dr. Biraj Kanti Mondal	Asst. Prof.	Geography
27	Pabitra Mandal	Asst. Prof.	Physics
28	Dr. Gautam Kumar Mallik	Assoc. Prof.	Physics
29	Mrinal Nath	Asst. Prof.	Computer Science