



**“Implementation of Blended Learning (BL) in Education Institutions including HEIs in West Bengal”**

Organized by

**Netaji Subhas Open University (NSOU)**

In collaboration with

**Commonwealth Educational Media Centre for Asia (CEMCA)**

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**REPORT OF THE 1<sup>ST</sup> WORKSHOP**

**Background of the workshop:** Effective implementation of the blended learning in education system, laid down in the NEP 2020 may address the challenge of increasing GER (issue of inclusion) and imparting education and training for sustainable development. Therefore, it needs appropriate IT infrastructure, online teaching platform, development and dissemination of digital content, capacity building of teachers etc. The University has a network of 175 Learner Support Centres (LSCs) for the degree programmes. The teachers of these HEIs (LSCs) generally serve the university as academic counsellors. Under this collaborative project on “Implementation of Blended Learning (BL) in Education Institutions including HEIs in West Bengal” (2023-24), the university in association with CEMCA has organized the 1<sup>st</sup> workshop at Kalyani RC of NSOU during 9-11 March 2023 for the improvement of the teaching-learning system in the contemporary realities especially to orient and facilitate the Blended Learning (BL) ecosystem. Through this workshop, thousands of learners of both NSOU and other HEIs those are Learner Support Centres of NSOU are expected to be benefitted from the workshop across this region.

**Day-1, Inaugural session**

The inaugural session of the 1<sup>st</sup> day of the 3-day workshop under the NSOU-CEMCA collaborative initiative was held at the Kalyani Regional Centre of the Netaji Subhas Open University on 09/03/2024. The ceremony was graced by the Hon’ble Vice Chancellor of NSOU, Prof. Indrajit Lahiri, Director, CoL-CEMCA, Prof. Basheerahmad Shadrach, Regional Director of Kalyani RC of NSOU, Dr. Premananda Jana, Prof. Anirban Ghosh, Project Director, Dr. Papiya Upadhyay, Project Coordinator, Facilitators of the workshop-Mr. Purandar Sengupta & Mr. Santanu Patra and 49 encouraging participants. The session was initiated with an enticing welcome address by Dr. Jana followed by a conspectus on the

project and an overview of the 3-day workshop agenda by the Project Director. Prof. Ghosh mentioned that this workshop aims to create action oriented, courageous, and competent educational leaders and facilitators who will be provided with the right tools, knowledge, skills, motivation, and competence to confidently lead improvements and development of their educational institution in line with the Sustainable Development Goals resonating with the tenets of NEP 2020. The Hon'ble Vice-Chancellor, NSOU fervently delivered the inaugural address cascading how blended learning and pedagogy can be integrated in educational policies and strategies based on good practices around us. Director, CEMCA delivered the keynote address accenting increased knowledge of using and integrating ICT and AI as a tool for pedagogical development and to promote quality education and also signifying the expanded professional networks for the exchange of knowledge and experience of technology in and of education. He added that the Ministry of Education has announced the upsurge promotion of Gen-AI in education and funding the same across the country. Dr. Parimal Sarkar, organizing secretary of the workshop proposed the vote of thanks to conclude the inaugural session. The entire session was moderated by Dr. Upadhyay. The technical session immediately followed as per schedule.

**Title of the Program:** - Implementation of Blended Learning (BL) in Education Institutions including HEIs in West Bengal”

**Duration:** Three Days

**Target Segment:** Teachers, Educators, scholars of Higher Education in West Bengal

**Date:** 9<sup>th</sup>, 10<sup>th</sup> and 11<sup>th</sup> March 2024

**Venue:** NSOU **Regional Centre**, Kalyani

**Facilitators:**

Prof (Dr.) Anirban Ghosh, Director (i/c), SVS & Director, CIQA, NSOU
Dr. Papiya Upadhyay, Assistant Professor of Education, NSOU
Mr. Santanu Patra, Trainer & Google Certified Educator
Mr. Purandar Sengupta, Certified Master Trainer (NIESBUD, Govt of India) & Certified Master Trainer & Facilitator (HRCI & SHRM)

## **Methodology:**

- ✚ Deliberations through presentation of ideas, concepts
- ✚ Group activity with discussion
- ✚ Brainstorming and Self-Assessment
- ✚ Participatory, Observation & Reflection
- ✚ Participatory Analysis
- ✚ Design Thinking & other exercises on Creativity
- ✚ Cognitive Re-engineering
- ✚ Guided practice
- ✚ Hands-on activities
- ✚ Feedback and analysis

## **Workshop Objectives:**

Upon successful participation in the workshop, faculty members and academics are expected to be able to:

- ✚ Recognizing blended learning approach (Genesis, Skills & Competence)
- ✚ Exploring OER & Creative Commons Licenses for teaching learning and professional development
- ✚ Up-skilling through hands-on techniques on interactive, collaborative and co-creative learning
- ✚ Designing blended learning course module and assessment rubric
- ✚ Orientation in templates of SWAYAM MOOC and development of modules
- ✚ Introducing Generative Artificial Intelligence (GenAI)

## **DESCRIPTION OF THE TECHNICAL SESSIONS OF THE THREE DAYS**

### **Technical Sessions of the First Day**

**First Session of the First Day:** Dr. Papiya Upadhyay and Mr. Purandar Sengupta were the Joint Facilitators in this session. The Facilitators adopted inductive approach in this session. They encouraged the participants to form heterogeneous groups from the perspective of specialization. Subsequently the members of the group were inspired to plan and narrate the different components of a Blended Learning Program with a result chain of Output, Outcome and Social Impact. The tool that was administered by the Facilitators for this activity was “Situation Analysis Framework” (SAF)

The participatory and collaborative approach embedded in the activity of this ~~this~~ session created deep engagement and triggered high level of interest within the groups of participants

**Result Chain of the Activity of the first session of the first day**

Achieved Output	Expected Outcome
The different ideas of the participants got integrated while planning and documenting the subtleties and intricacies of Blended Learning	It is expected that in future the participants will be capable of framing Blended Learning program , with multiple perspective planning and on the foundation of Result Based Management System

**Second Session of the First Day:** Dr. Papiya Upadhyay vividly presented the different features of Blended Learning, and encouraged the learners to reflect on these features. Mr. Purandar Sengupta facilitated the participants to achieve deeper conceptual clarity on the inputs presented by Dr. Papiya Upadhyay.

**Result Chain of the Second Session of the Second Day**

Achieved Output	Expected Outcome
The session added value to the existing knowledge of the participants on Blended Learning	It is expected that the participants will be able to establish the Comprehension –Application Result Chain and ensure judicious application of their acquired knowledge in appropriate practical situations

**Third Session of the First Day:** In this session Dr.Papiya Upadhyay presented the relevant theories of Instructional Design that are congruent to Blended learning . Mr. Putrandar Sengupta facilitated each group of participants to establish the correlation of the Instructional Design Theories with practical situations where Blended learning System is being planned and implemented.

**Result Chain of the Third Session of the First Day**

<b>Achieved Output</b>	<b>Expected Outcome</b>
The participants comprehended the subtle nuances of the relevant theories of Instructional Design	It is expected that in future the participants will deploy the essence of the Instructional Design Theories in conceptualizing , planning and implementing the Blended Learning Programs

**Fourth Session of the First Day:**

Dr. Papiya Upadhay and Mr. Purandar Sengupta encouraged the learners to get engaged in an analytical and creative exercise. They presented a sheet of paper where the diversified entry behaviours of the heterogeneous learners of a Blended Learning Program were distinctly enumerated

The Facilitators inspired the participants to identify the Terminal Learning Objective (TLO) for learners with each type of entry behaviour. Subsequently they were motivated to design the appropriate Intervention for fructifying the Terminal Learning Objectives of each category of learners (categorized on the basis of Entry Behaviour).

**The learners completed the task with deep engagement and interest**

<b>Achieved Output</b>	<b>Expected Outcome</b>
The participants achieved success in designing conducive and effective Interventions for satisfying the learning objectives of different categories of learners.	It is expected that in future , the learners will be able to identify the heterogeneity of the learners in the Blended learning programs  It is expected that the participants will be

capable of designing outcome oriented Blended-Pedagogy encompassing multifarious Interventions , that will be effective enough to satisfy the need of each category of learners (categorized primarily on the basis of Entry Behaviour and eventually by their heterogeneous Cognitive Proficiencies and Learning Styles)

### Glimpses of Day-1



## Technical Sessions of the Second Day

**First Session of the Second Day:** Prof. (Dr.) Anirban Ghosh clarified the concept of Open Educational Resources, and enumerated the diversifications in the Open Educational Resources, from the perspective of content and the purpose of OER. Subsequently he referred to the Creative Commons Licences and vividly illustrated the salient features of each type of Licence. The eloquent exegesis of Prof. (Dr.) Anirban Ghosh and his meticulous effort in clarifying the nuances of each License facilitated the participants to achieve conceptual clarity on the theoretical as well the practical aspects of the topic.

### Result Chain of the First Session of the Second Day

Achieved Output	Expected Outcome
The participants got apprised with the multifarious types of OER and the different types of Licence available in the website of Creative Commons	<ul style="list-style-type: none"><li>✚ It is expected that the participants will be able to explore the diversified OERs and select the appropriate types for their different purposes</li><li>✚ It is expected that the participants will be able to identify and select the appropriate licence of Creative Commons for their own purpose.</li></ul>

**Second & Third Sessions of the Second Day:** These sessions were conducted by the Facilitator - Mr. Santanu Patra. With the valued intent of establishing the seamless integration between Comprehension and Application, Mr Santanu Patra orchestrated the two consecutive technical sessions with greater emphasis on practical application of theoretical understandings.

In these sessions, Mr Santanu Patra exhibited the methodology of searching and analysing the multifarious categories of OERs. He also facilitated the participants in identification of the Creative Common Licenses in the website of Creative Commons and to leverage the appropriate one for fructification of specific objectives



Finally Mr. Santanu Patra encouraged each group of participants to build up an OER with Creative Common Licence. During the entire process, Mr. Santanu Patra rendered guided instructions and handholding support to the participants

**Result Chain of the Second and Third Session of the Second Day**

Achieved Output	Expected Outcome
<ul style="list-style-type: none"> <li>❖ The participants got equipped with the technique of searching OER and identifying the desired OER</li> <li>❖ The participants got equipped with the strategy for identifying, leveraging and deploying the appropriate Creative Commons License for their research and publications</li> <li>❖ The participants could construct OER, under the guided instruction and handholding support of the concerned Facilitator – Mr. Santanu Patra.</li> </ul>	<ul style="list-style-type: none"> <li>➤ It is expected that in future the participants will be able to search and identify the desired OER</li> <li>❖ It is expected that in future the participants will be able to deploy the effective strategy for identifying, leveraging and deploying the appropriate Creative Commons License for their research and publications</li> <li>➤ It is expected that in future the participants will be able to construct OER independently</li> </ul>

**Fourth Session of the Second Day:** In this session, Mr. Purandar Sengupta and Dr.Papiya Upadhyay facilitated the participants to achieve conceptual clarity on the fundamental aspect of the globally acclaimed strategic methodology –Design Thinking. The efforts of the Facilitators aimed at sensitizing the participants in identifying the needs and problems of the heterogeneous learners in the Blended Learning Framework and subsequently to design effective strategic solutions for satisfying the needs and alleviating the problems of the learners

After the completion of the theoretical elucidation, Mr. Purandar Sengupta encouraged the participants to complete an analytical and creative exercise in Design Thinking.

Achieved Output	Expected Outcome



The participants got apprised with the conceptual and procedural aspects of Design Thinking

It is expected that in future the participants will be able to

- ✚ Identify the needs and problems of their learners with empathetic approach
- ✚ Create a consolidated problem statement
- ✚ Generate innovative ideas for satisfying the needs and problems of the learners
- ✚ Select the most cost-effective idea and translate it into a prototype
- ✚ Test the usability, effectiveness and conduciveness of the prototype among the learners
- ✚ Reengineer the prototype for making it more learner-friendly

### Glimpses of Day-2



## Technical Sessions of the Third Day

**First Session of the Third Day:** Dr. Papiya Upadhyay exhibited a vivid and coherent presentation on the requisite psychosocial and functional competencies for carrying out Facilitation.

Mr Purandar Sengupta clarified the Competency Framework with diversified components and illustrated how the different components of Competency Framework, function synchronously to elevate the performance level of the individuals.

### Result Chain of the First Session of the Third Day

Achieved Output	Expected Outcome
<ul style="list-style-type: none"><li>✚ The Participants comprehended the relationship dynamics between Competency and Performance</li><li>✚ The Participants got apprised of the requisite psychosocial and functional competencies for executing Facilitation</li></ul>	It is expected that that the participants will deploy the psychosocial and functional competencies with cohesion and integration , while making concerted effort to execute the diversified techniques of Facilitation

**Second Session of the Third Day:** In this session Prof.(Dr.) Anirban Ghosh clarified the diversified Instructional Design Methodology for design a course for Swayam Portal. of Govt. of India. He placed emphasis on the “Four Quadrant Approach” and clarified each quadrant with significant meticulousness. He also specified certain Instructional Strategies that are highly instrumental in;-

<ul style="list-style-type: none"><li>✚ Reduction of cognitive load</li><li>✚ Enhancing the engagement and participation of learners</li><li>✚ Building up confidence within the learners through Positive Reinforcement</li><li>✚ Elucidation of thematic complexities through theory –practice integration</li></ul>
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### Result Chain of the Second Session of the Third Day

Achieved Output	Expected Outcome
<p>The Participants got acquainted with the Instructional Design Methodology for designing a course for Swayam Portal of Government of India.</p> <p>The participants got apprised of the instructional methodologies for ensuring</p> <ul style="list-style-type: none"> <li>✚ Reduction of cognitive load within the learners</li> <li>✚ Enhancing the engagement and participation of learners</li> <li>✚ Building up confidence within the learners through Positive Reinforcement</li> <li>✚ Elucidation of thematic complexities through theory –practice integration</li> </ul>	<p>It is expected that in the near future the participants will be able to deploy appropriate Instructional Design Methodology for building up courses for Swayam Portal of Government of India</p> <p>It is expected that the participants will be able to ensure</p> <ul style="list-style-type: none"> <li>✚ Reduction of cognitive load of within their learners</li> <li>✚ Enhancing the engagement and participation of their learners</li> <li>✚ Building up confidence within their learners through Positive Reinforcement</li> <li>✚ Elucidation of thematic complexities through theory –practice integration</li> </ul>

**Third Session of the Third Day:** The Third Session of the Third Day was conducted by Mr. Santanu Patra. In this session he made the participants sensitized to different digital tools and clarified the functions of these digital tools that are instrumental for better comprehension and smarter application. Eventually he demonstrated the tools with significant perspicacity. Finally, he encouraged the participants to apply one of the digital tools in their mobile phones.

The strategic effort of Mr. Santanu Patra in establishing a well integrated linear chain of Sensitization-Clarification-Demonstration–Practice, was vehemently appreciated by the participants

#### **Result Chain of the Third Session of the Third Day**

Achieved Output	Expected Outcome

<ul style="list-style-type: none"> <li>✚ The participants got apprised of the functionalities of diversified digital tools</li> </ul>	<p>It is expected that the participants will be able to deploy the diversified digital tools with precision and finesse for supporting their learners in comprehending and applying the curricular components</p>
<ul style="list-style-type: none"> <li>✚ The participants got equipped with the skill of applying one of the digital tools , under the guided instruction and handholding support of the Facilitator</li> </ul>	<p>It is expected that the participants will be able to create joyful classrooms through judicious orchestration of the digital tools</p>

**Fourth Session of the Third Day:** In the concluding session of the third day, Dr. Papiya Upadhyay delivered an eloquent presentation on the tools of Generative AI

After that Mr. Purandar Sengupta and Dr. Papaya Upadhyay encouraged the participants to work on a comprehensive framework of Blended Learning published by Commonwealth of Learning.

#### **Result Chain of the Fourth Session of the Third Day**

<b>Achieved Output</b>	<b>Expected Outcome</b>
<p>The Participants got acquainted with the different tools of Generative AI and their significant roles in the arena of Learning and Development</p>	<p>It is expected that in future the participants will be able to engineer the tools of Generative AI for facilitating their learners to significantly high extent</p>
<p>The Participants could plan and narrate the different components of Blended Learning</p>	<p>It is expected that the participants will be able to plan and implement Blended Learning Programs with meticulousness and outcome-orientation.</p>

#### **Wrapping up:**

The concluding session of the three-day long workshop wrapped up with final thoughts of the Project Director, Prof. Ghosh through his endeavouring speech, followed by extending warm thanks by the Project Coordinator, Dr. Upadhyay to all participants. It was followed by sharing of experiences by some of the participants. They expressed their content and

fulfilment in attending this academic event which constituted learning by doing and learning with joy in a community of trust and open communication. At the end certificates were distributed among the participants for their active involvement throughout the three days followed by a group photograph.

### Concluding Remarks

- ✚ The Workshop ensured deep engagement and spontaneous participation of the Higher Education Teachers
- ✚ The development of the highly integrated liner as well as iterative chains of Comprehension & Application facilitated the participants to get enlightened with knowledge and equipped with skill.
- ✚ The Workshop facilitated the participants in achieving conceptual clarity and operational dexterity pertaining to Blended Learning
- ✚ The concerted effort and the functional synchronization developed by the members of the Facilitation Team paved the path towards the emergence of Blended Pedagogy
- ✚ The conceptual cohesion and functional integration of the Facilitators ensured multidimensional performance of the Facilitator –Team , which in turn ensured broader experience of the participants followed by deep Experiential Learning.

### Glimpses of Day-3





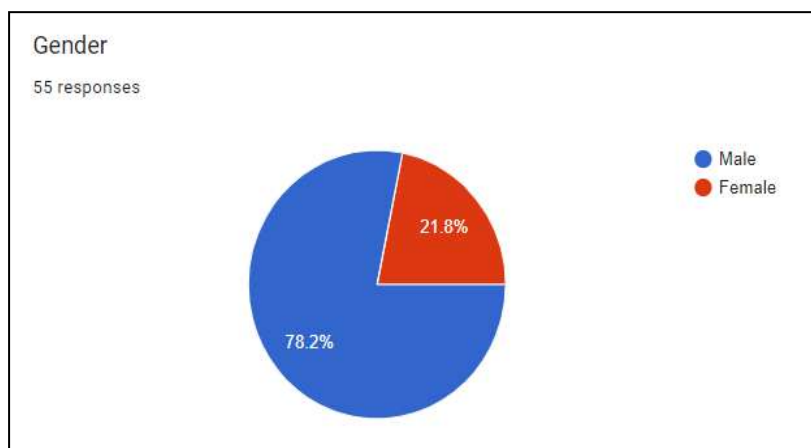


### Pre-workshop baseline survey:

The baseline survey was conducted among the registered participants who submitted the Google forms online for participating in the 3-day workshop scheduled to be held on 9-11 March 2024 at Kalyani RC of the university. On the basis of the registration form WA group was created for the exclusive purpose of the workshop. This particular survey was also conducted through the WA group through which we received the responses from 55 participants (from 29th February 2024 to 4th March 2024). The purpose of the survey was an attempt to obtain the level of knowledge and understanding of the participants on various aspects of blended learning/ technology enabled learning.

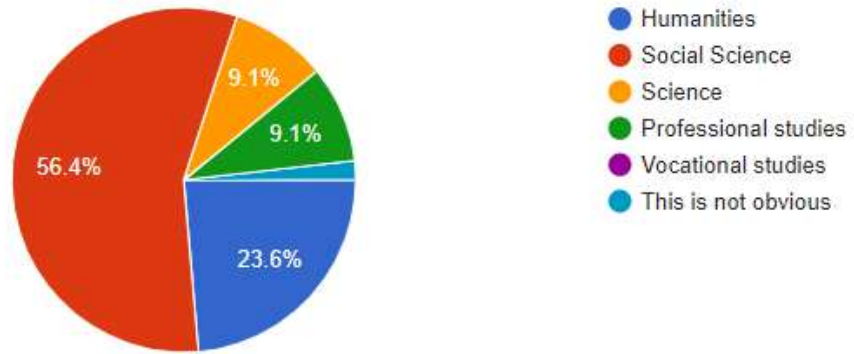
The feedback received through the baseline survey helps us design the session plan and training module to make the workshop more effective, engaging, and fruitful and at the same time outcome based.

### SECTION I: Personal details



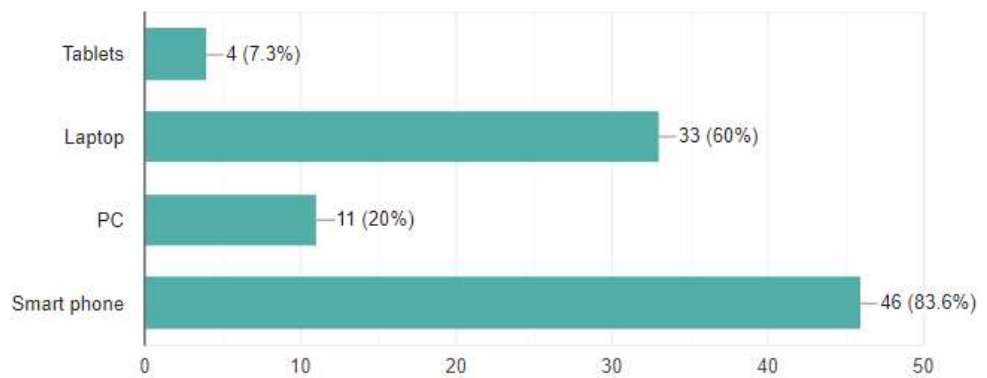
### Academic discipline

55 responses



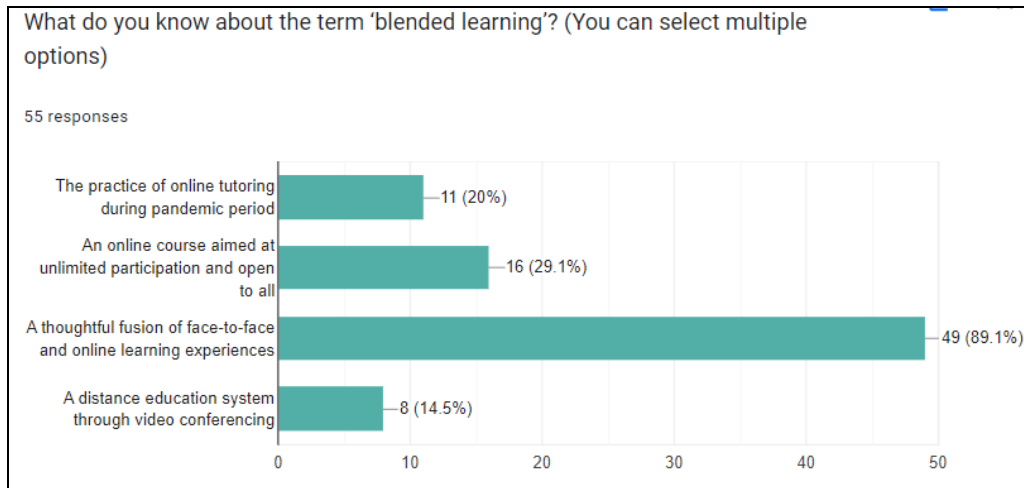
### From where do you access the online resources mostly? (You may choose multiple options)

55 responses

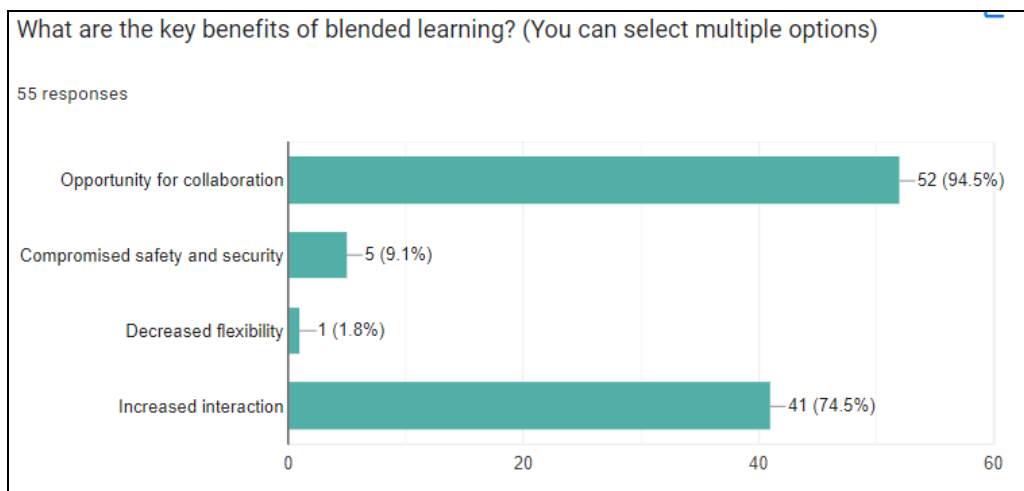


## SECTION II: Knowledge on Blended Learning

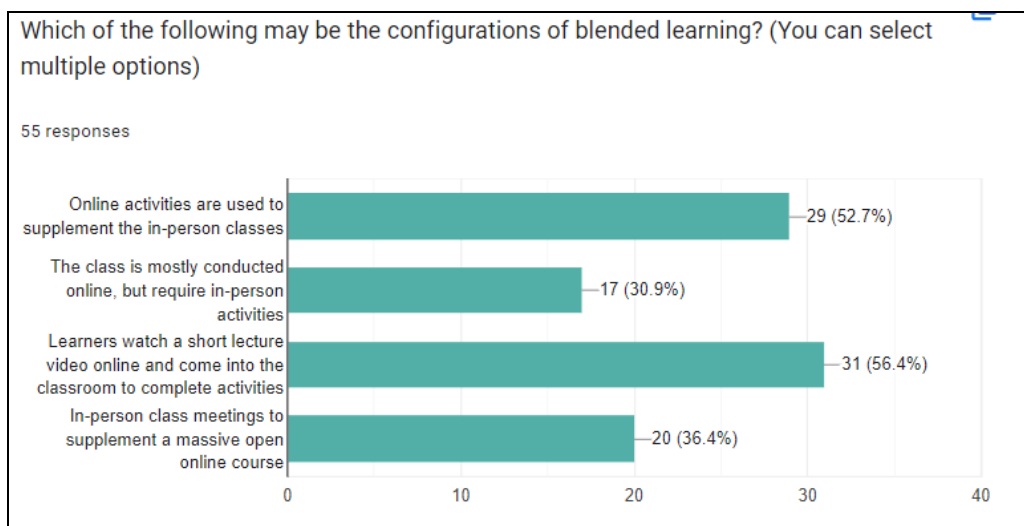




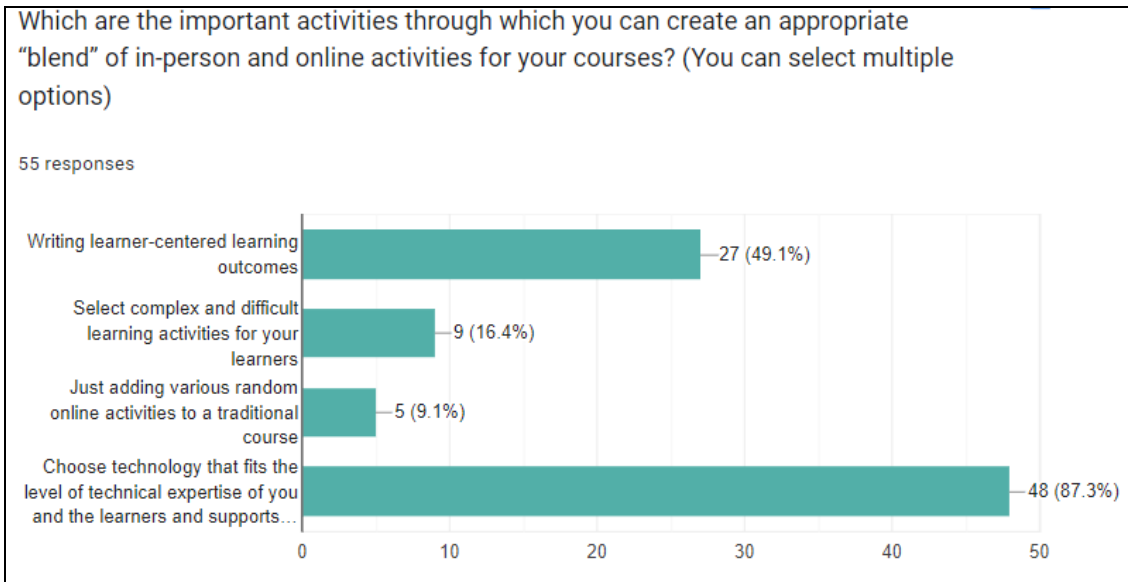
Right Answer: C



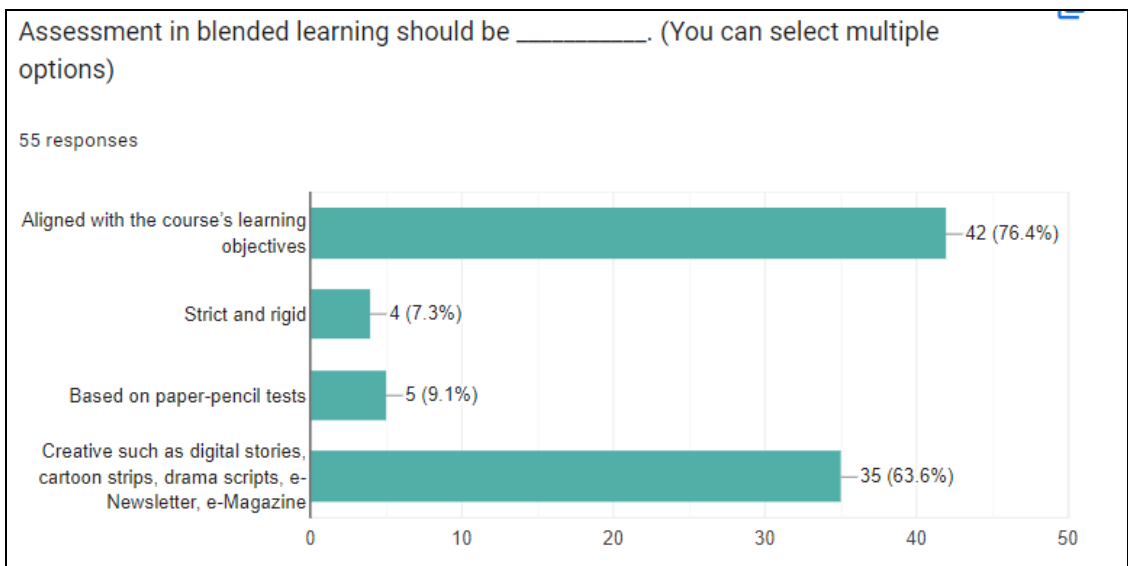
Right Answer: A & D



Right Answer: A, B, C & D



Right Answer: **A & D**

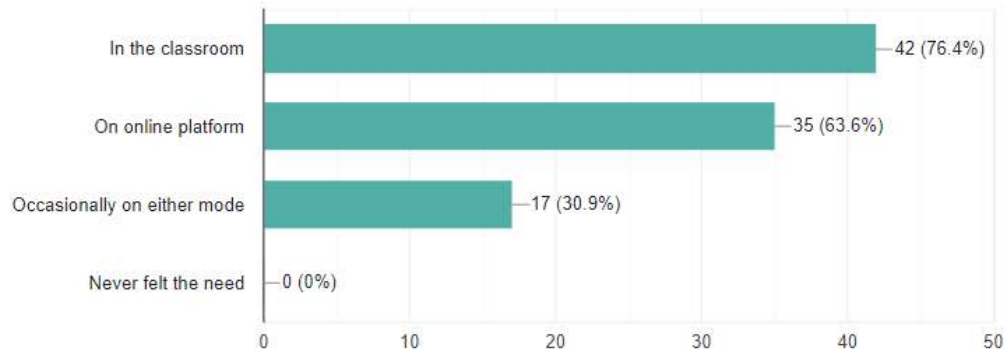


Right Answer: **A & D**

## SECTION III: Skills in Blended Learning

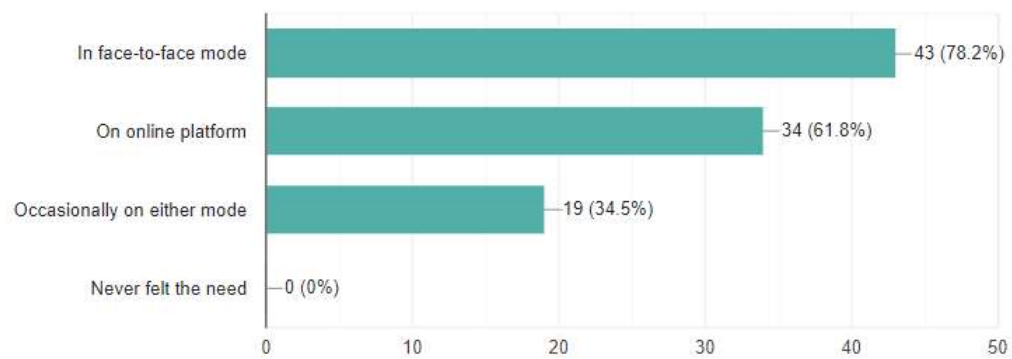
Do you encourage your learners to contribute by sharing their knowledge, ideas, and views? (You can select multiple options)

55 responses



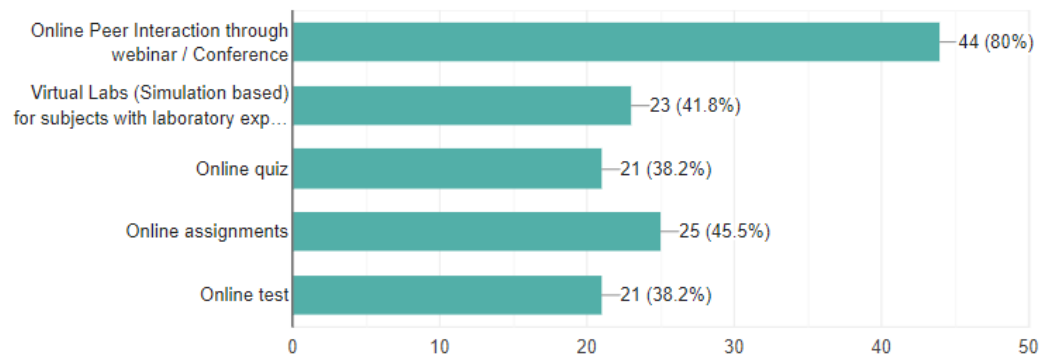
Do you assign collaborative activities for your learners? (You can select multiple options)

55 responses



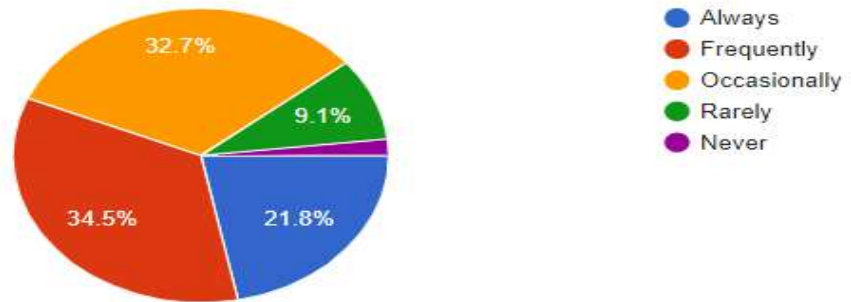
Which you preferred most in your teaching learning process?

55 responses



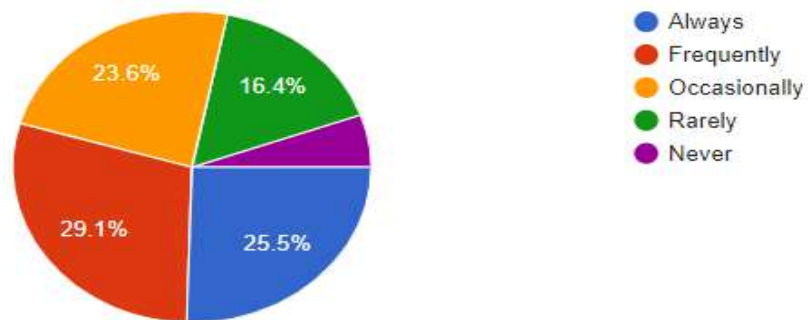
Do you use any Learning Management System (LMS) for your learners?

55 responses



Do you use Open Educational Resources (OERs) (in format of text, graphics, animations, simulations, gaming, interactive multimedia, etc.) by knowing proper license criteria in your research paper?

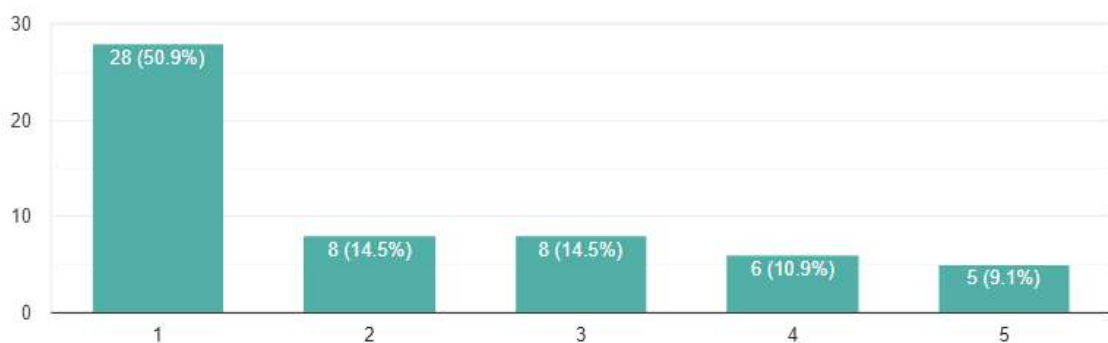
55 responses



## SECTION IV: Attitude towards Blended Learning

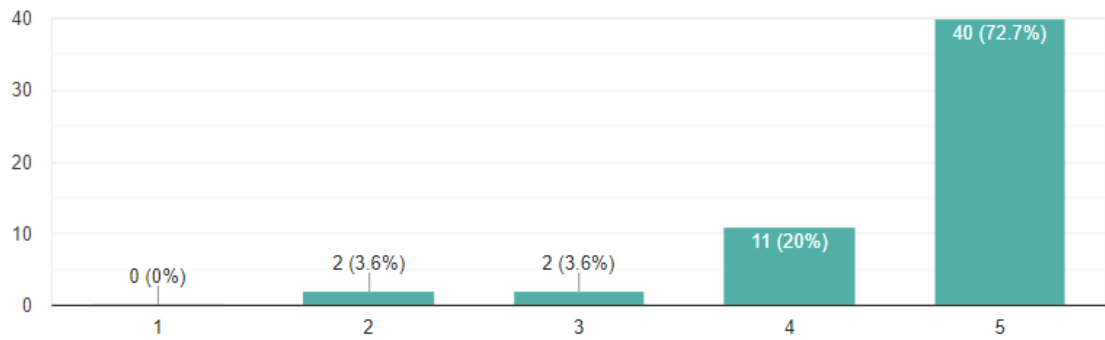
I feel that it is difficult to combine online and offline activities for a course?

55 responses



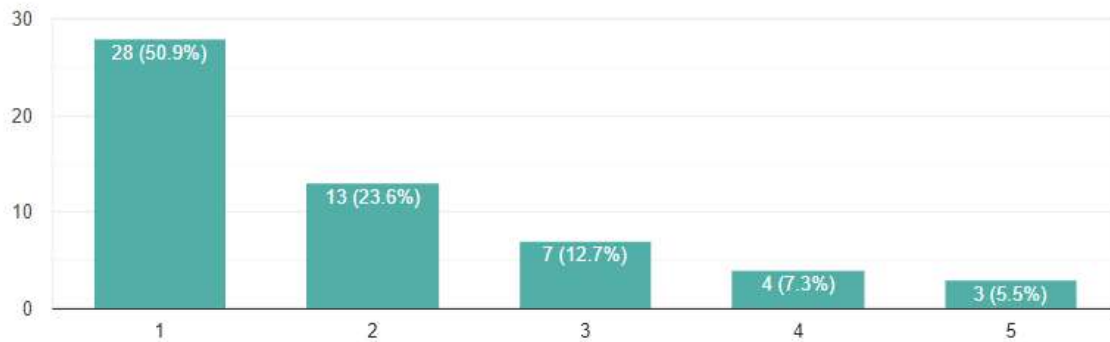
I feel that blended learning helps to increase learners' interest in learning?

55 responses



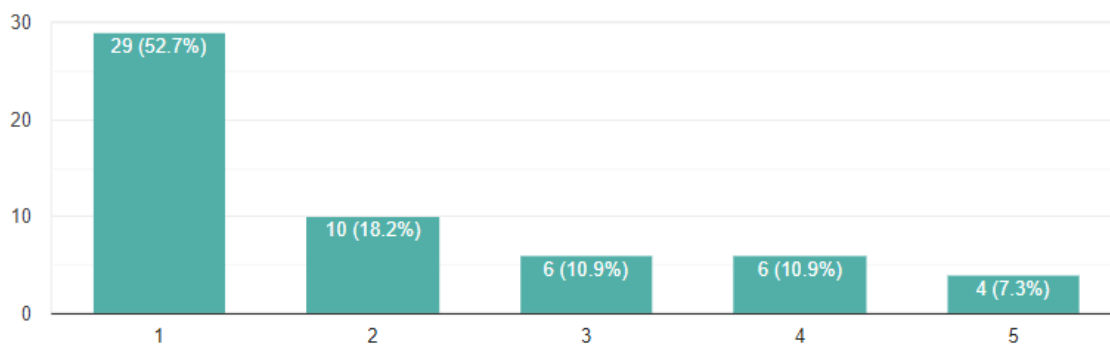
I feel that time is not manageable in blended mode of learning?

55 responses



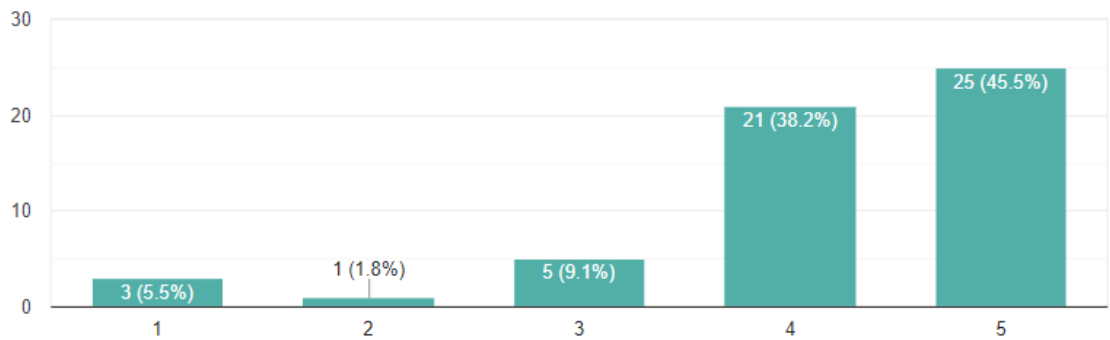
I feel that technology will distract our learners from their actual academic goals?

55 responses



I feel that blended learning provides personalized learning experience to meet the individual needs of the learners?

55 responses



The general comments made by the respondents are summarized below:

- The importance of such workshops is immense in the present day. A lot can be learned by attending this workshop. Later I will apply them in the classroom and on the students.
- I feel that blended learning programme is the most flexible, learner centered, and also importance to both online and offline discussion.
- Blended learning is essential method in present situation.
- I am always in favour of blended Learning mode in the higher educational institution which helps our aspirant learning to build their concrete knowledge as fast as the technology progress.
- I expect one important takeaway for me from this workshop will be getting a clear idea of the scope and practicability of implementing blended learning in the school education system in our state.
- Digitalization has significantly impacted education, leading to blended learning, which combines in-person instruction with online and virtual components. Key models include rotation, flexibility, a la carte, and online enhancement. This approach prepares students for a digital future, improves communication, engagement, and accessibility.
- Blended mode of teaching is an innovative and thought provoking system to the present generation
- Now a days Blended learning is the best possible way to learn but we have work on some areas well.
- There should be different considerations relating to learners' abilities and feasibility before implementing any blended programme.
- Online classes are very much effective.
- Blended learning offers flexibility, personalization, and engagement by combining online and in-person methods. It provides access to diverse resources, fosters skill development, and offers immediate feedback. Cost-efficiency, global reach, and

adaptability contribute to its effectiveness, preparing students for a future reliant on digital skills.

- Blended learning is a new innovation in teaching learning process. It opens many opportunities to the learner in upcoming days. It will very helpful and explore new things in modern age.
- Proper planning at the institutional and administrative level and core policy with strong and clear mission and vision will make it successful teaching strategy for future
- Blended learning is very much needed learning process in today's world.
- Blended learning is a fruitful method of teaching for those students who couldn't attend regular classes due to their personal problem.
- Blended learning allows for a more dynamic and adaptable educational approach, catering to diverse learning styles. It can foster self-paced learning, collaboration, and engagement through a mix of online and in-person components.
- I agree with blended education system for future learner.
- Blended learning is essential for effective learning, enhance using ICT in education, managing time and abilities to extend the learning horizons, facilitating the vertical progress, ensuring for achieving goals and success.
- Blended education is an important medium of modern education in the current situation. Because students learn to use modern technology through it.
- Teaching - learning process should be interactive and descriptive to engage both the tutor and the learner. Learners must get ready to face the practical life situations with confidence.
- Blended mode of learning is best way after the Covid-19 pandemic period.
- Internet connection is not very well in Village area. So, it is a limitation for villages' students.
- I feel that blended learning programme is the best way to enjoy every learner and also through this they will achieve their needs.
- A blended learning platform makes it easy for students to look back on earlier materials and to move through coursework at their own pace.
- Blended learning enables fast learners to advance more quickly, while struggling students can move at their own pace and get customized support where they're stuck.
- Blended Learning is very important for this time.
- Blended learning is a scientific method to teach or learn anything in present Era.
- Blended learning improves students' performance and motivation. It promotes participation, self-learning and team works and opens a new relationship between students and teachers.
- I feel BL is the need of the time. It perfectly goes in line with the objectives set in by NEP 2020.
- Blended learning is the most crucial and important method for effective teaching.
- Blended learning plays the crucial role in present education system. It's mostly needed in this present century



- A combination of online and offline activities increase the teaching-learning process. It is most acceptable for most of the learners.
- Blended learning helps teachers stays organized and connect in more meaningful ways with their students.
- Blended mode of learning should incorporate in every level of educational sector. School Education should incorporate blended mode of learning in their curriculum, so that both the teacher and student can get the opportunity to access this mode and also they will get to excel their skills.
- Blended learning is an excellent method of teaching. We should take the benefit of it.
- Attitudinal and the infrastructural factors are crucial for this mode of education

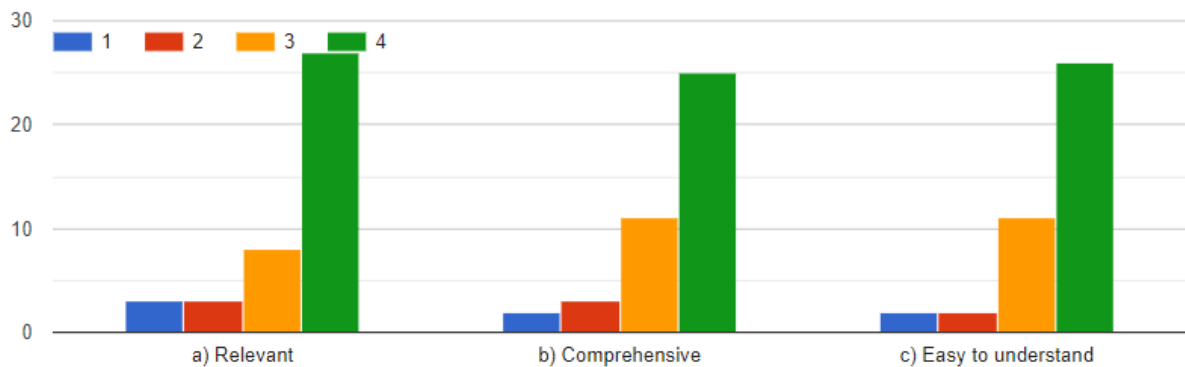
**Baseline Survey Link:**

<https://forms.gle/8RRuXyQtaSt9nYuPA>

**Feedback on the Workshop (assessment by the participants):**

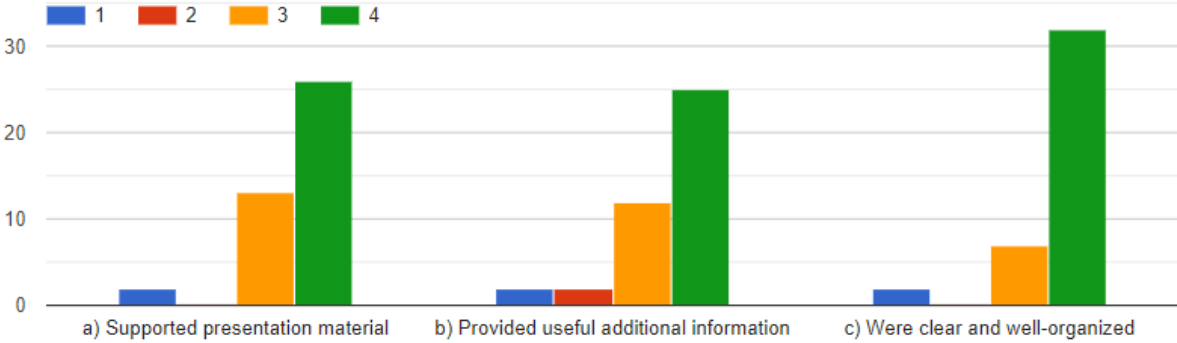
1. The workshop content was:

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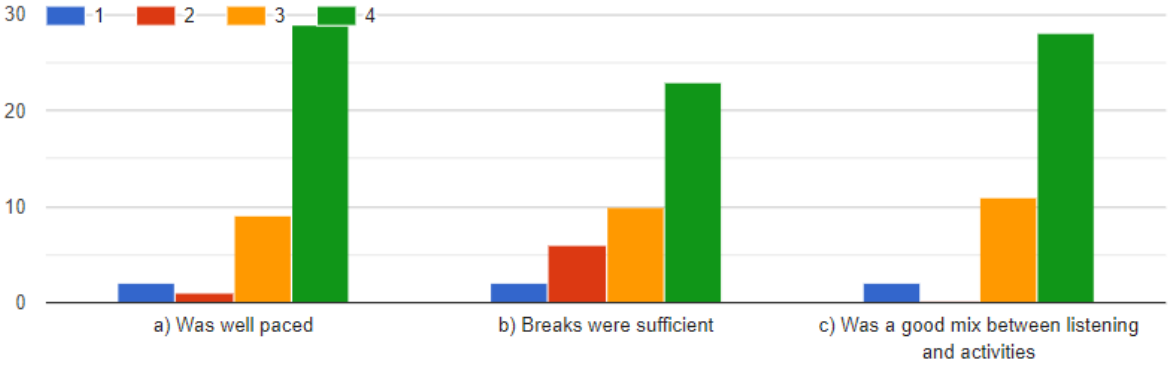
2. Workshop Training Module:

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3. The workshop:

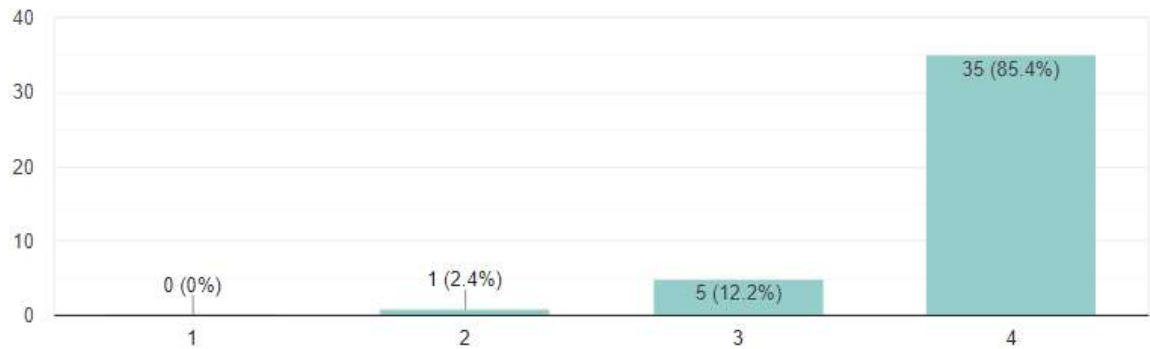
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4. The activities were useful learning experiences:

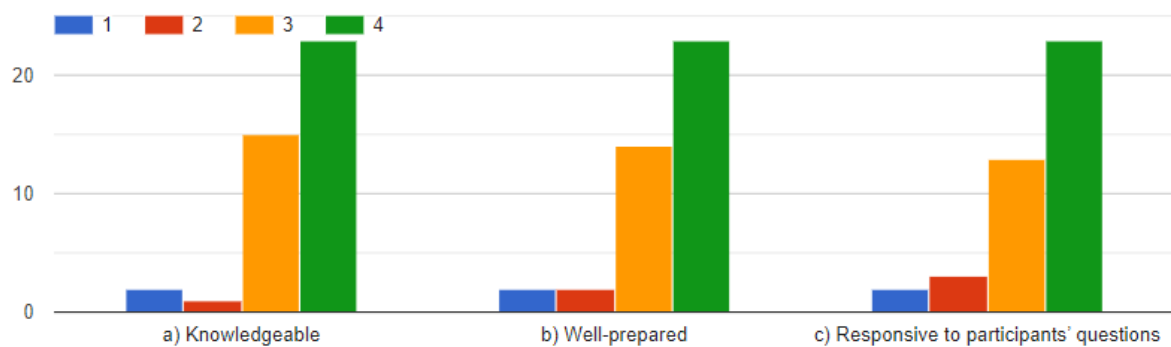
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41 responses



5. The facilitators were:

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6. What did you like best about this workshop?

- Something New to Learn & Work On.
- Responsive to participants' questions
- Different activity
- Organize team is Superb
- Usage of Various web applications to make the teaching interactive as well as exciting.
- Understand various types of tool
- Very helpful Resource persons

- Very good Demonstration
- Structure, discipline, content
- Good Demonstration
- Well organised and relevant
- Presentation tools
- There are so many provisions of hands on activities
- Best Practices
- Huge amount of information gathering, collaboration activities are there.
- Copyright, licensing
- Understood the topics, which was thoroughly discussed by the expert team.
- ICT integrated lecture
- Behaviour of teacher's and Food quality
- Good facilitators and good food
- Effective use of ICT tools in teaching learning process
- Creation our own OER
- Planning, organizing and content deliberations.
- Learning by doing
- Interactive
- ICT Tools uses in teaching learning processes.
- All is Practical mode and also maintain collaborative learning, Learning by doing
- Competency of the facilitator
- Use of different software to making effective blended learning-teaching
- The practical sessions
- More effective discussion
- Engagement between mentors and learners...
- The facilitators are sincere to give us their best in this new education system.

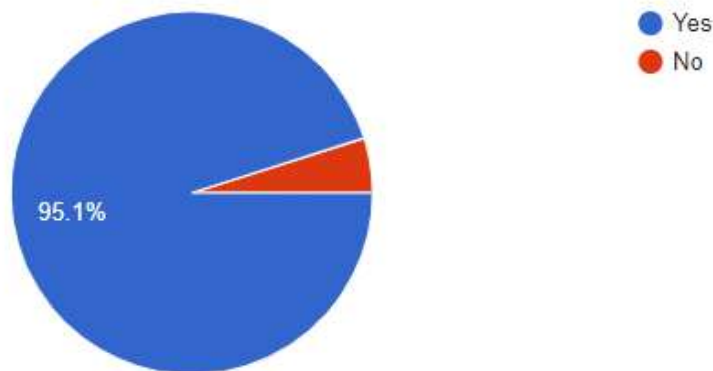
- Collaborative synchronous
- Practical session
- Blended learning
- Well organised
- Practice hands-on practice, Easy and simple way to presentation

**7. What did you like least about this workshop?**

- Time management
- Lot of topics were covered in a single day, giving us less time to practice.
- Time was insufficient

**8. Would you recommend this workshop to someone else?**

41 responses



**Why/why not:**

All the participants candidly expressed their willingness to strongly recommend such workshop to their colleagues/social acquaintances. Their views as to why they would recommend such workshop to others are listed below:

- One of the Best Workshops I have ever come across.
- It was very informative.
- Future knowledge
- Because, it can help other teachers to get introduced to blended mode of learning.

- Increase time or day.
- Effective
- Very impactful activities.
- Because this is most effective for teaching areas
- Very much informative
- Relevant for faculty members
- Some new information learning oriented
- Very informative and activity based
- Development of skills
- This topic is very interesting and necessary
- It is very much helpful to create e-content
- It's a good way to understand the topic through practical knowledge and motivated to implement it also
- Because this type of workshop very much needed for upcoming modern teaching learning processes.
- This workshop is very relevant for teachers as well as learner
- Gather knowledge and experience
- I would recommend this workshop to others because now we are in 2024.I would say it's a digital world. As an educator we should know about technology which will help us to provide best for our students and this workshop will help others like it helped me.
- It is very effective to upgrade teaching skills, especially in changing scenario of technological exploration
- Purposeful and effective
- This workshop is very much useful and beneficial for the teachers who are in HEI.
- Well organised and skilful
- Useful for academics
- The workshop has healthy and joyful learning environment.
- This type of workshop is very much practical oriented.

- As because everybody will be the part of the global atmosphere of the technology in and of education.
- This is much needed for teachers and students to become aware about the use of modern technology to make education more accessible, joyful, universal, trendy and need-based.
- The teaching-learning process is technology driven today. So, we have no option other than be technology friendly as a teacher. As the blend is an artistic process so we must learn the blended mode of learning and teaching.
- Very effective and contemporary.
- Because it is practical and updated version for delivering lecture through blending mode.
- I think such workshop will help to meet the needs and problems of learners more sincerely.
- It is very relevant and essential.
- Very informative and joyful.
- The topics discussed during all the sessions were very relevant, so everyone needs to know about it.
- It will help every educator in their effective teaching and planning and tailoring lessons.

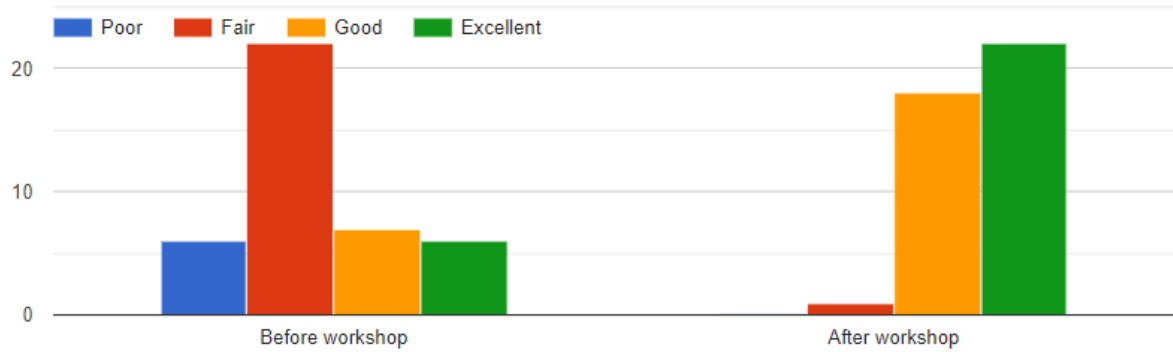
**Comparative analyses of the pre and post workshop responses and outcome of the workshop:**

There were few items on the feedback questionnaire form regarding post knowledge and experience on blended learning and its effective practice towards implementation in the HEIs in the parts and fringes of the State. These were congruent with their baseline survey. The comparative responses were analysed and the following graphical images represent the outcomes achieved through the workshop:



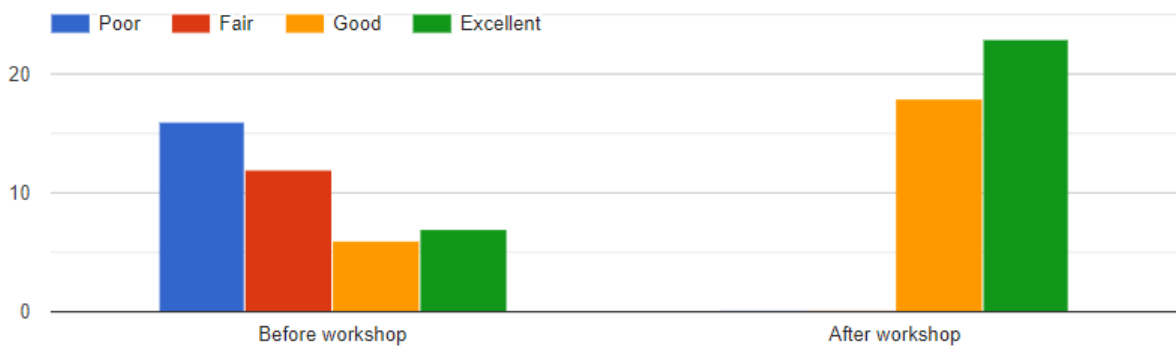
9. Recognizing blended learning approach (Genesis, Skills & Competence):

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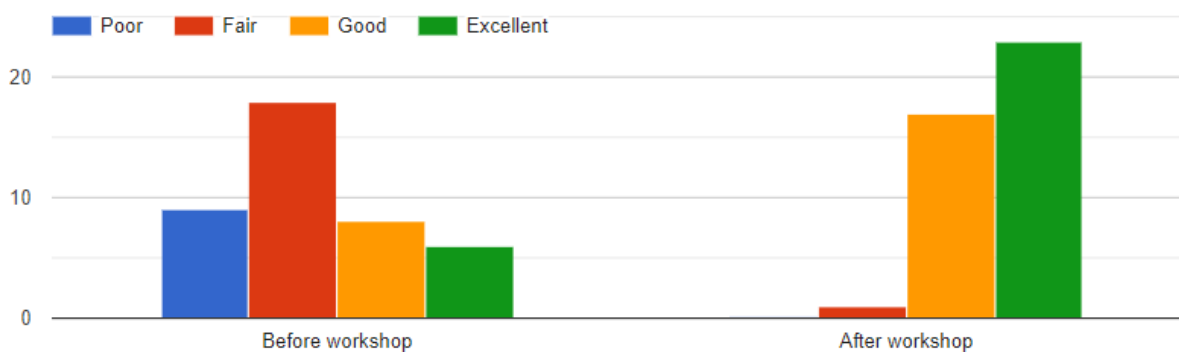
10. Exploring OER & Creative Commons Licenses for teaching learning and professional development:

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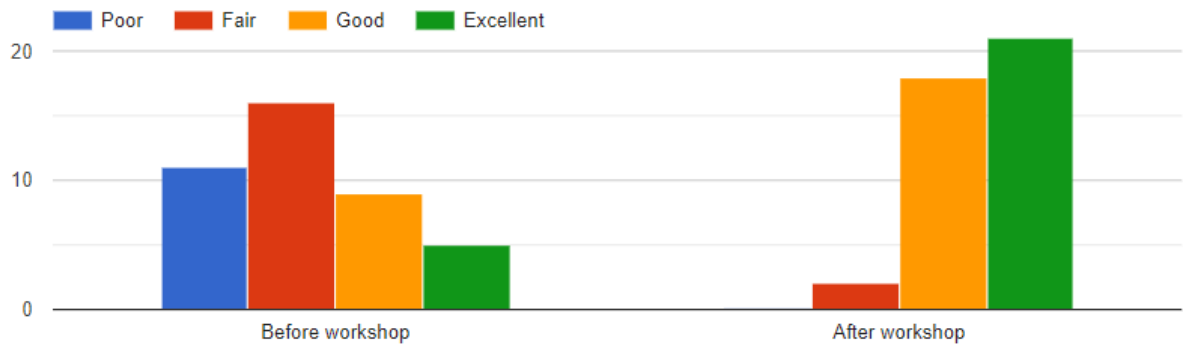
11. Up-skilling through hands-on techniques on interactive, collaborative and co-creative learning:

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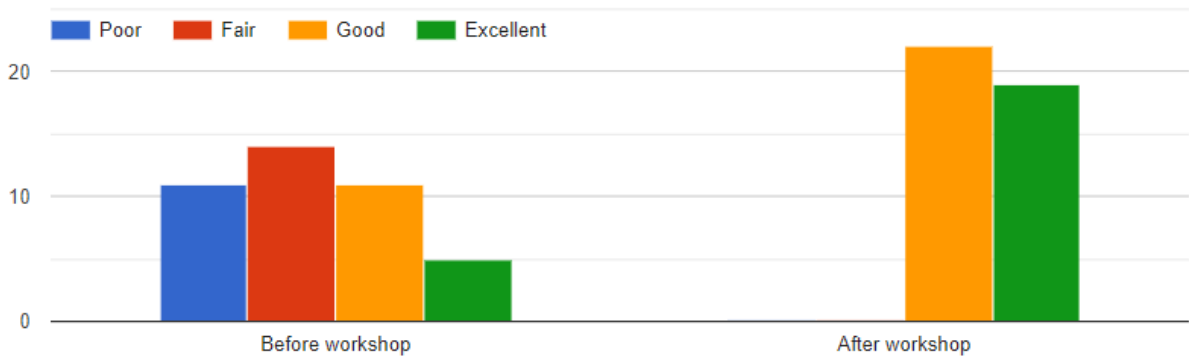
12. Designing blended learning course module and assessment rubric:

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13. Orientation in templates of SWAYAM MOOC and development of modules:

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14. Introducing Generative Artificial Intelligence (AI):

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## **15. What further training or support would you need to be prepared for implementation of Blended Learning in educational institutions?**

The participants came up with the following suggestions endorsing collectively on more such content-rich participatory workshop with guided sessions:

- Using different AI tools into teaching-learning-assessment
- Using ICT in different ways of life
- Further training or support for better understanding with the teacher and student interaction.
- Experiment with the flipped classroom model. Switch to digital assessments for instant feedback. Set digital revision task, then use the results to inform class schedules. Explore group projects that utilise multimedia tools.
- Need to explore more hands-on activity-based learning.
- More on instructional designs like cognitive pedagogical approach
- Arrange the ICT bases training for higher Education research.
- Using flipped classroom, artificial intelligence, blended learning etc in class room
- Organizing a week long or at least five days duration of training program may be organized for covering all aspects of blended learning implementation in higher education institutions.
- More on real time demonstration of the contents deliberated and more interactive session
- Workshop on development and delivery of courses on SWAYAM
- To enhance blended learning, integrate diverse instructional methods like online modules, interactive discussions, and hands-on activities. Foster engagement through multimedia resources and regular feedback channels. Encourage collaboration among peers and provide accessible materials. Flexibility and adaptability are key to meet individual learning needs effectively.
- Case Study of Blended Learning experiences.

**Participants list:**

<b>Sl. No.</b>	<b>Name of the Faculty</b>	<b>Designation</b>	<b>Name of the College/ University</b>	<b>WhatsApp No.</b>
1	BISWARAJ DATTA	ASSISTANT PROFESSOR	(MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL)	8296230489
3	TAMAL BISWAS	Research project assistant, teaching and testing	Netaji Subhash open University	7890732237
3	BITTU MANDAL	SACT	DR. B.R AMBEDKAR COLLEGE	7980160355
4	SOUVIK PAUL	Ph.D. Scholar	Raiganj University	9038183191
5	SANKAR BAIRAGI	Ex Project assistant under N.S.O.U, Academic Counsellor N.S.O.U	Netaji Subhas Open University	8420617977
6	DR. SIPRA SAMANTA	Assistant Professor of Education	Haldia Government College	9474646696
7	DR. PIJUSH KANTI TRIPATHI		Haldia Government College	9474347710
8	CHIRADEEP CHOWDHURY	Assistant Master	Hooghly Branch Govt. School	9836401401
9	SOMDYUTI RAKSHIT	Assistant Professor.	Kabi Krittibas B.Ed. College	9734561605
10	CHINMAY GHOSH	ASSISTANT PROFESSOR.	Govt. General Degree College Narayangarh	7003117023
11	ANINDYA CHAKRABORTY	State Aided College Teacher	Rishi Bankim Chandra Evening College	9874303418
12	AVIJIT MONDAL	Assistant Professor	Rishi Bankim Chandra Evening College	9804689941
13	DR. TANOJ MONDAL	Assistant Professor.	Rishi Bankim Chandra Evening College	9874239358
14	APURBA NANDI	State Aided College Teacher	Rishi Bankim Chandra Evening College	9564323811
15	DEBOJYOTI HALDER	Assistant Professor	Rishi Bankim Chandra Evening College	8910577371

16	RAHUL CHAKRABORTY	Assistant Professor	Govt General Degree College Narayangarh	6295774242
17	SRIMANTA GHOSH	State Aided College Teacher	Rishi Bankim Chandra Evening College	9903282825
18	ALIF HOSSAIN	Librarian	Govt General Degree College Narayangarh	9831929443
19	ANJAN KARAK	State Aided College Teacher	Rishi Bankim Chandra Evening College	8509238067
20	RINKU GHOSH	State Aided College Teacher	Banipur Mahila Mahavidyalaya	8777215676
21	JYOTIRMOY DUTTA	State Aided College Teacher	Akui Kamalabala Women's College	9330516148
22	ARUN KUMAR PAL	State Aided College Teacher	Saheed Nurul Islam Mahavidyalaya	9775077918
23	DR BINAYAK CHANDA	Assistant Professor	Government General Degree College, Muragachha	9038296276
24	TUPAI BARMAN	RESEARCH SCHOLAR	UNIVERSITY OF KALYANI	9,93,38,64,719
25	DR. SAMIR MANDAL	Assistant Professor	Government General Degree College, Muragachha	9564383195
26	SRIJIB GOSHAMI	Assistant Professor	Govt General Degree College Narayangarh	9735744107
27	ANKUR NANDI	FELLOW RESEARCHER	UITIVERSITY OF KALYANI	8637388474
28	DEFPIKA MANDAL	FELLOW RESEARCHER	UITIVERSITY OF KALYANI	9240253106
29	SHANTANU SAHA	RESEARCH SCHOLAR	NETAJI SUBHAS OPEN UNIVERSITY	8617742802
30	MILAN MANDAL	Research Scholar	University of Kalyani	8013422547
31	BASANTI MAHANTA	Research Scholar	University of Kalyani	9143410885
32	SUBHAJIT JANA	Research Scholar	University of Kalyani	814598 36 11

33	BINOY ROY	Research Scholar	University of Kalyani	8240602228
34	SARDIYA SULTANA	RESEARCH SCHOLAR	NETAJI SUBHAS OPEN UNIVERSITY	7384649678
35	SOURAVI ATA	Guest Lecturer.	Raja Narendra Lal Khan Women's College	9775462311
36	TANVIARA MOHAMMAD	STATE AIDED COLLEGE TEACHER-I	PLASSEY COLLEGE	9733816754
37	RIYA PATTANAYAK	Library Technical Staff	Sivnath sastri College	8584932269
38	ARUP PATTANAYAK	Assistant Teacher	DRCHS	7003991598
39	AMAL KUMAR DAS	Ph.D. Research scholar	Jadavpur University	8670500403
40	RANAJIT MAITI	Assistant Professor in Economies	Nahata J.N.M.S. Mahavidyalaya	9775069250
41	RUHUL AMINE MONDAL	State Aided College Teacher	Dr. B.R.Ambedkar Satabarshiki Mahavidyalaya	9735227347
42	KOUSHIK SHAW	Assistant Professor	Dr. B.R.Ambedkar Satabarshiki Mahavidyalaya	9674360827
43	SRIJANI RAY	Assistant Professor	Dr. B.R.Ambedkar Satabarshiki Mahavidyalaya	9903011274
44	SWAPNA DEB	Faculty Consultant	School of Education, NSOU	9830913935
45	MOUSUMI MALLICK	Asst. Prof	St. Mary's College	9051298739
46	SANCHITA DAS	Educator	Univerity of Kalyani	9681143643
47	DR. BIPLAB SAHA	Assistant Professor	Rishi Bankim Chandra Evening College	8777491283

## PROGRAMME SCHEDULE



### “Implementation of Blended Learning (BL) in Education Institutions including HEIs in West Bengal”

Organized by

**Netaji Subhas Open University (NSOU)**

In collaboration with

**Commonwealth Educational Media Centre for Asia (CEMCA)**

**Venue: Muktadhara Auditorium**

**Kalyani Regional Centre, Nadia**

**NETAJI SUBHAS OPEN UNIVERSITY**

### PROGRAMME SCHEDULE

#### DAY 1 (9/3/2024, Saturday)

Time	Activities/Sessions	
9.30AM–10.00AM	Registration	
10.00AM–10:55 AM: Inaugural Session		Speakers
10.00 AM	Welcome address	Dr. Premananda Jana Regional Director, Kalyani RC
10.05 AM	About the Project & Workshop	Professor Anirban Ghosh, Project Director
10.15 AM	Inaugural Address	Professor Indrajit Lahiri Vice-Chancellor, NSOU
10.25 AM	Keynote Address	Dr. B. Shadrach Director, CoL-CEMCA
10:55 AM	Vote of Thanks	Dr. Parimal Srakar Organizing Secretary
Session Moderator: Dr. Papiya Upadhyay, Project Coordinator		
Time	Sessional Activities	Sessional strategies & Speakers
11.00AM–	<b>Session 1:</b> Ice-breaking session: Expectations from the workshop; Situational Analysis; Getting to know each other	Prof. Anirban Ghosh Dr. Papiya Upadhyay Mr. Purandar Sengupta
11.50AM	<b>Session 2:</b> Generic understanding of Blended Learning (BL). Instructional Designs; Blended Learning Designs, Skills & Competencies	Dr. Papiya Upadhyay (Deliberation) Mr. Purandar Sengupta (Facilitation)

12.50PM	<b>Session 3:</b> Blended Learning Ideas emanating from Institutional to Individual Level; (Tricks & Traits). Group Activities with Tools	Dr. Papiya Upadhyay (Deliberation) Mr. Purandar Sengupta (Facilitation)
<b>Self-Assessment</b>		
1.35PM– 2.00PM	Lunch	<b>Sessional strategies</b>
2.00PM	<b>Session 4 &amp; 5:</b> Group activities with a Tool on Competency Based Education (Design Thinking)	Mr. Purandar Sengupta Dr. Papiya Upadhyay (Joint Facilitation)
3.45PM		Mr. Santanu Patra (Trainer)
<b>Points to Ponder</b>		
<b>5.00 PM</b>	Day Closes with Tea	

### DAY 2 (10/3/2024, Sunday)

Time	Sessional Activities	Sessional strategies
10.30AM– 10:45AM	<b>Reconciliation &amp; summary of Day-1 with Tea</b>	Participants & Facilitators
10.50 AM	<b>Session 6:</b> Generic understanding of OER & CC Licenses	Prof. Anirban Ghosh (Deliberation)
12.05PM	<b>Session 7:</b> Hands-on activities on OER	Mr. Santanu Patra (Technical training)
<b>Sticky Notes</b>		
1.30 PM	Lunch	
2.00 PM	<b>Session 8:</b> Hands-on activities on OER (Contd.)	Mr. Santanu Patra (Technical training)
3.15 PM	<b>Session 9:</b> Reflective session with a tool (Integration of ideas conceived)	Mr. Purandar Sengupta Dr. Papiya Upadhyay (Joint Facilitation)

### DAY 3 (11/3/2024, Monday)

Time	Sessional Activities	Sessional strategies
10.30AM– 10:45AM	<b>Reconciliation &amp; summary of Day-2 with Tea</b>	Participants & Facilitators
10.50 AM	<b>Session 10:</b> Hands-on activities: Basic ICT tools & Techniques in teaching-learning-assessment process	Mr. Santanu Patra (Technical training)
12.05PM	<b>Session 11:</b> Orientation on MOOCs (SWAYAM, other LMS etc.)	Prof. Anirban Ghosh Dr. Papiya Upadhyay Joint Facilitation
<b>Sticky notes</b>		
1.30 PM	Lunch	<b>Sessional strategies</b>
2.00 PM	<b>Session 12:</b> Development of a BL course design with a template	Dr. Papiya Upadhyay Mr. Purandar Sengupta
3.00 PM	Introducing the concept of AI in Education	Joint Facilitation
<b>3.40PM</b>	<b>Wrapping up, Feedback &amp; Valediction</b>	<b>Project Team</b>



**Project Director**  
Professor Anirban Ghosh  
*Director, School of Vocational Studies*  
Netaji Subhas Open University (NSOU)

**Project Coordinator**  
Dr. Papiya Upadhyay  
*Assistant Professor*  
*Education, NSOU*

**Organizing Secretary**  
Dr. Parimal Sarkar  
Asst. Professor, Education, NSOU

**Email: [workshop.cemca@gmail.com](mailto:workshop.cemca@gmail.com)**

Report prepared by-  
Prof. Anirban Ghosh & Dr. Papiya Upadhyay