NETAJI SUBHAS OPEN UNIVERSITY

SCHOOL OF SCIENCES

H.Q.: DD-26, Salt Lake, Sector-I, Kolkata – 700 064
City Campus: K-2, Bidhannagar Fire Station, Sector- V, Salt Lake, Kolkata-700 091
Kalyani Campus: First Floor, Academic Building, Kalyani Ghoshpara, Kalyani 741235
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Memo. No. **Date: 19.09.2024**

Report of the Workshop on "One Day Workshop of Implementation of NEP-2020 in UG Mathematics" on 22-08-2024

Department of Mathematics of School of Sciences, NSOU, Netaji Subhas Open University organized a **'One Day Workshop of Implementation of Nep-2020 in UG Mathematics at NSOU'**, on 22nd **August, 2024**. Faculties from other HEI's and faculties of this University attended the programme. The organizing committee of the programme was as follows:

Proposed Organizing Committee:

Chief Patron: Prof. Indrajit Lahiri, Hon'ble Vice-Chancellor, NSOU

Chairperson: Prof. Bibhas Guha, Director, School of Sciences, NSOU

Chief Guest: Prof. Kajal De, Hon'ble Vice-Chancellor, Diamond Harbour Women's University

Keynote Speaker: Prof. Sukhendu Kar, Professor, Jadavpur University

Convener:

- **Dr. Ushnish Sarkar,** Assistant Professor of Mathematics, NSOU
- **Dr. Chandan Kumar Mondal,** Assistant Professor of Mathematics, NSOU

Treasurer: Dr. Nemai Ch. Dawn, Associate Professor of Mathematics, NSOU.

The programme was conducted in offline mode.

Details of Programme:

The workshop on NEP-2020 for four year undergraduate mathematics aimed to provide a comprehensive understanding of the policy's impact on mathematics education. It focused on aligning the UG mathematics curriculum with NEP-2020 guidelines by integrating multidisciplinary approaches, enhancing problem-solving skills, and emphasizing real-world applications. Participants explored innovative pedagogical strategies, including student-centric learning and technology-enhanced teaching, and discuss new assessment techniques such as competency-based and continuous evaluation.

Inaugural speech was delivered by Prof. Bibhas Guha. Prof. Bibhas Guha's inaugural speech provided a comprehensive overview of NEP-2020's implications for undergraduate mathematics education. His insights set a forward-looking agenda for the workshop, emphasizing the need for curriculum reforms, innovative teaching methods, and inclusive practices. The speech inspired participants to actively engage with the policy's objectives and contribute to the ongoing evolution of mathematics education.

Presidential address were delivered by Smt. Ananya Mita, Registrar, NSOU. Her presidential address highlighted NEP-2020's vision for holistic, inclusive mathematics education, emphasizing curriculum reform, innovative teaching methods, and faculty development to align with policy goals.

Prof. Kajal De delivered the chief-guest address. In her Chief Guest address, Prof. Kajal De focused on the implementation of internship programs within Open and Distance Learning (ODL) frameworks. She highlighted the challenges and opportunities associated with integrating practical experience into ODL programs, emphasizing the need for structured, adaptable internship models that align with NEP-2020 objectives. Prof. De advocated for innovative strategies to ensure that internships provide meaningful, hands-on experience while maintaining the flexibility required by distance learning formats. Her insights aimed to bridge the gap between theoretical knowledge and practical application, enhancing the effectiveness of ODL in mathematics education.

The official Vote of thanks was delivered by Dr. Ushnish Sarkar, Assistant Professor of Mathematics, NSOU, and the inaugural session was ended with thanks.

The technical Session chaired by Dr. Nemai Chand Dawn, Associate Professor of Mathematics, NSOU. This session was conducted in a participatory manner, with active interaction and group activities.

This session starts with an in-depth lecture by our keynote speaker Prof. Subhendu Kar, professor, Jadavpur University. He delivered a compelling address at the workshop on NEP-2020 for four-year undergraduate mathematics, reinforcing the significance of the National Education Policy's transformative vision. He emphasized the policy's focus on creating a more inclusive and holistic educational environment that aligns with contemporary educational needs. He highlighted the necessity of adapting the UG mathematics curriculum to foster critical thinking and problem-solving skills while incorporating real-world applications. He also discussed the importance of innovative pedagogical approaches and continuous faculty development to effectively implement NEP-2020's guidelines. His address underscored the policy's potential to reshape mathematics education, advocating for collaborative efforts to address challenges and seize opportunities for enhancement in line with NEP-2020's objectives.

Dr. Diptiman Saha, Associate Professor of Mathematics at St. Xavier's College, and Dr. Nanigopal Mandal, Associate Professor of Mathematics at Ramakrishna Mission Residential College, shared their insights on the implementation of NEP-2020. They emphasized the importance of integrating internship

programs not just within the Open and Distance Learning (ODL) system but also in traditional, regular educational systems. Both scholars argued that internships are crucial for bridging the gap between theoretical knowledge and practical experience, enhancing students' real-world skills and employability. They discussed how structured internship programs could be designed to align with academic curricula, providing students with hands-on experience while supporting their academic growth. Dr. Saha and Dr. Mandal highlighted the need for collaboration between educational institutions and industry partners to create meaningful internship opportunities. They also pointed out the logistical and administrative challenges of implementing these programs and advocated for supportive frameworks to facilitate their integration. Their contributions underscored the broader impact of NEP-2020 in fostering experiential learning and preparing students for diverse career paths.

Dr. Rupa Pal, Associate Professor of Mathematics at WBES, addressed some key challenges emerging in the implementation of NEP-2020 during her session. She highlighted issues such as the need for significant curriculum redesigns, the integration of innovative pedagogical methods, and the adaptation to new assessment strategies. Dr. Pal emphasized that these challenges require a concerted effort from all stakeholders, particularly faculty members, who must be prepared to embrace and adapt to these changes. She advocated for comprehensive training and professional development programs to equip educators with the necessary skills and knowledge to navigate the evolving educational landscape.

Dr. Soumen Nandi, Associate Professor of Computer Sciences and Mr. Mrinal Nath, Assistant Professor of Computer Sciences, NSOU emphasized the importance of incorporating data science, artificial intelligence (AI), and machine learning (ML) into undergraduate mathematics education as outlined in NEP-2020. They highlighted how integrating these cutting-edge fields into the curriculum can enhance students' analytical skills and prepare them for the evolving job market. Mr. Nath advocated for active collaboration with the IT industry to infuse new ideas and technologies into academic programs. They believe that such partnerships can provide valuable insights and opportunities, ensuring that UG students are well-equipped with relevant skills and are better positioned to secure employment upon graduation. They focu on aligning mathematics education with industry trends aims to bridge the gap between academic training and professional opportunities, enhancing the overall career readiness of students.

Dr. Sujoy Nayak, Assistant Professor of Mathematics, Netaji Nagar Day College and Mr. Sayantan Roy, Assistant Professor of Mathematics, WBES, emphasized strategies to ensure equitable access to quality mathematics education for all students. They advocated for practices that support diverse learning needs and promote equal opportunities.

Subsequently, Dr. Gahul Amin, Associate Professor of Physics, SoSci, NSOU, emphasized the policy's emphasis on creating a more inclusive and holistic educational environment that aligns with contemporary educational needs

Finally, Dr. Ushnish Sarkar, Assistant Professor of Mathematics, NSOU chaired the validation session, and the programme was ended with thanks.

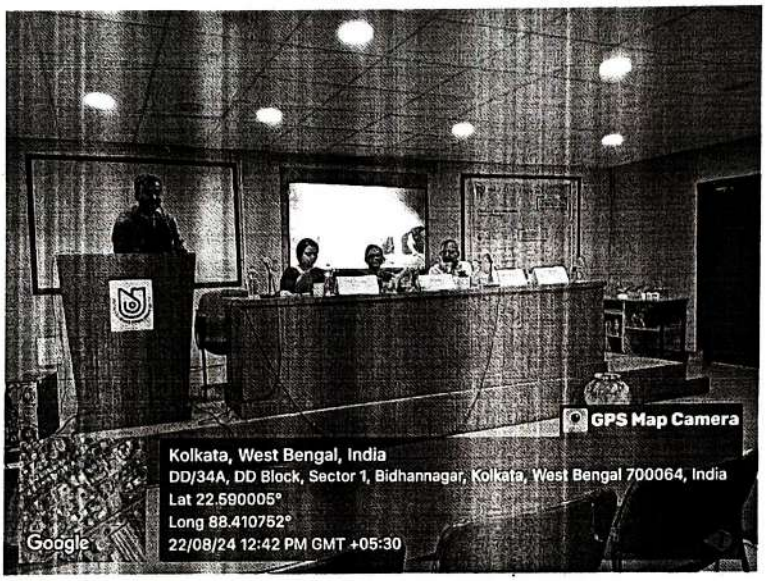




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Ushnish Sarkar 19/9/24

Dr. Ushnish Sarkar
Asst. Prof. of Math.
SoSci, NSOU

Chandan Kr. Mondal 19/09/24.

Dr. Chandan Kumar Mondal
Asst. Prof. of Math.
SoSci, NSOU

Netaji Subhas Open University
Department of Mathematics, School of Sciences

One Day Workshop of Implementation of NEP-2020 in UG Mathematics

(UGC- DEB Funded)

Date: 22/08/2024 (Thursday)

Programme Schedule

Venue: Seminar Hall, 1st Floor, NSOU HQ

Registration: 11:30 am- 12:00 pm

Inaugural Session: 12:00 pm- 1:00 pm

- Welcome address by Prof. Bibhas Guha, Director, School of Sciences, NSOU
- Address of the Chief Guest by Prof. Kajal De, Hon'ble Vice Chancellor, Diamond Harbour Women's University
- Address of the Special Guest by Prof. Anirban Ghosh, Director, CIQA, NSOU
- Presidential Address by Mrs. Ananya Mitra, Registrar, NSOU
- Vote of Thanks

Lunch: 1:00 pm- 1:45 pm

Technical Session: 1:45 pm- 3:30 pm

Session Chair: Dr. Nemai Chand Dawn, Associate Professor of Mathematics, NSOU

- Keynote Lecture: Prof. Sukhendu Kar, Professor of Mathematics, Jadavpur University
- Tea Break: 2:30 pm- 2:35 pm
- Forum Discussion: 2:35 pm- 3:30 pm

Valedictory Session: 3:30 pm- 3:45 pm.