



# POORNIMA

## INSTITUTE OF ENGINEERING & TECHNOLOGY

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### NOTICE

All the faculty members are informed that a two week Faculty Development Program On “Implementation of NEP 2020 in Higher Education Institutions (HEIs)” will be held from 04.07.2022 to 16.07. 2022 at from 9:30 A.M onwards everyday (Venue: Seminar Hall (NB-31)

All the faculty members are requested to attend all sessions. E certificates shall also be given to all faculty members.

**Convener (IQAC)**

**(Dr. Gautam Singh)**

**Dated: 10.12.2020**

## **Faculty Training Program on “Implementation of NEP 2020 in Higher Education Institutions (HEIs)”**

### **About the Training Program**

In this modern age of teaching, it becomes extremely significant that a teacher must be well equipped not only with subject knowledge but should be well acquainted with effective teaching techniques and evaluation methods. The goal of effective teaching and learning is the overall development of a learner as a good human being and citizen of this country. In this Faculty Development Program, it is intended to familiarize participants to the emerging issues of internet based culture and digital age learning. Learners will explore the use of emerging technologies and their integration into higher education. Special emphasis will be given to the student feedback analytic software along with hands-on training sessions. The focus will also be on the importance of value education, designing of learning outcome based curriculum etc.

### **The objectives of the FDP are:**

- To provide an insight into the National Education Policy 2020
- To impart knowledge about the changes and transformations to be brought about in the country’s educational framework.
- To make the faculty understand the nuances of the policy in letter and spirit and the ways to effective implementation of the policy in every domain of the educational sector.

**Contents of faculty training program were:** New Education Policy-led Reforms in the Education System Changing the Higher Education Curriculum Framework under NEP-2020, At technical HEIs through NEP-2020, a perspective on research and innovation NEP accreditation criteria implementation, need for the implementation of national institutional ranking framework, Reorganizing and consolidating institutions Restructuring Curriculum Framework for Higher Education in NEP-2020, Online, and Digital Education: Ensuring Equitable Use of Technology Catalyzing Quality Academic Research in All Fields through a New National Research Foundation and many other initiatives. Setting the Context, History of Education Policies of India

1. Key insights of NEP
2. Life skills for Holistic development
3. Multidisciplinary/interdisciplinary
4. Academic bank of credits (ABC)
5. NEP 2020: Interplay of technology and education
6. Restructuring Curriculum Framework for Higher Education in NEP-2020
7. Quality Education as envisaged in NEP 2020
8. Research and Innovation perspective at technical HEIs" NEP-2020
9. Role of Leaders and Managers in implementing NEP 2020
10. Transforming the Regulatory System of Higher Education
11. Reforms in the Education System through National Education Policy
12. Vocational Education: Innovation in National Education Policy

## **Detailed Report of Training Program**

**Day 1: Monday, 4<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-1**

**Timings: 10:00am-12:30 pm**

**Program: Inaugural session and Briefing of Faculty Training Program**

**Session Coordinator: Dr. Krati Sharma**

The inaugural ceremony of the Faculty Training Program on “Implementation of NEP 2020 in Higher Education Institutions (HEIs)” commenced with lighting of lamps followed by Saraswati-Vandana. Dr. Gautam Singh (convenor IQAC and Program Coordinator) formally welcomed Director/Principal - Dr. Dinesh Goyal, Speakers and participants. Dr. Dinesh Goyal discussed the implementation of National Education Policy (NEP) in India, focusing on three core functions: Teaching, Research, and Extension/Services. In teaching, the focus is on multidisciplinary and holistic learning, allowing students to choose and adapt their subjects. Student-centric pedagogy incorporates innovative ideas and practical learning, while timetables are made exclusive. Mentorship is seen as an important concept, providing students with opportunities to explore and trace their learning. Research-based learning is prioritized, with multidisciplinary courses with specializations focusing on research and practical applications. Students are encouraged to enroll in research projects, collaborate with specialized institutions, and participate in research internships under UG programs. Industry academia links research and curriculum, associating industry experience with case studies, internship reports, and approach-based studies. Formal vote of thanks by Dr. Gautam Singh convenor IQAC, the inaugural session was completed. He has highlighted the program and thanked all the persons associated with the program.

**Day 1: Monday, 4<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-2**

**Timings: 1:30pm-3:00pm**

**Program: Key insights of NEP**

**Speaker: Mr. Deepak Moud HoD Computer Science Engineering**

**Session Coordinator: Dr. Aisha Rafi**

Mr. Deepak Moud discussed the key insights of the New Education Policy 2020, focusing on holistic education and learning outcomes. He highlighted critical aspects related to education reform, highlighting the New Education Policy 2020 as a treasure of ideas that addresses core educational concerns across all sectors. Moud emphasized the importance of achieving 50% enrolment in higher education and the regulatory system in higher education, which has been a subject of discussion with the National Knowledge Commission. He appreciated the major reforms for quality improvement in higher education, emphasizing the need for a more efficient regulatory system.

The session was so wonderful on key insights of NEP and Feedback of participants was very good.

## **Day 2: Tuesday, 5<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-3**

**Timings: 9:30am-12:30pm**

**Program: Life skills for Holistic development**

**Speaker: Mr. Udit Mamodiya**

**Session Coordinator: Mr. Ashok Kumar**

Mr Udit Mamodiya delivered his lecture on Life skills for Holistic development. He focused on Extension/Services, the approach under this section of NEP is to not just develop the student as an industry or corporate personality but also as a responsible citizen of the country, by creating a sense of responsibility towards the society in which they live. He said a holistic learning/development of the student is the major focus on extension/services. Life skills and soft skills to be made mandatory to all students and identifying the areas of their interest. Holistic development is a thorough pathway to learning intended to help develop all the sides of the human brain. Conventional learning and education systems aim to develop intellectual capabilities only. But holistic growth aims to develop physical, intellectual, cognitive or mental, emotional, and social abilities.

The participants interacted with the resource person during the session and discussed the Life skills for Holistic development. The feedback of the session was very good and valuable.

## **Day 3: Wednesday, 6<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-4**

**Timings: 9:30am-12:30 pm**

**Program: Multidisciplinary/interdisciplinary**

**Speaker: Dr. Dinesh Goyal, Director/Principal, PIET**

**Session Coordinator: Dr. Priya Mathur**

The 4th session delivered by Dr. Dinesh Goyal, spoke on the topic “Induction of Multidisciplinary/interdisciplinary in Higher Education - objectives, impact and challenges”. His focus was on the multidisciplinary approach. He said that all the Institutes/Universities must have a multidisciplinary focus. It means Institutes/ Universities should be multidisciplinary Institutions/universities. He also pointed out that maximum autonomy in

functioning should be provided with strong accountability. So, these two aspects are interrelated. These are the main highlights of the speaker. He appreciated all the major reforms for quality improvement in school education and higher education. Dr. Dinesh Goyal focused on the importance of multidisciplinary approach in higher education research and also discussed at length about the quality of research and how it is going in extreme specialization without proper quality and ethics. He reiterated that there is a need to understand and work with quality and with full dedication and commitment in conducting research and collaborating with other discipline researchers. The session was wonderful and full of knowledge. The speaker gave a lot of inputs to the participants as to how to conduct research ethically with all integrity.

**Day 4: Thursday, 7<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-5**

**Timings: 9:30am-12:30pm**

**Program: Academic bank of credits (ABC)**

**Speaker: Dr. Mukesh Chandra, Professor, PIET, Jaipur**

**Session Coordinator: Mr. Rajendra Singh**

Dr. Mukesh Chandra, who is presenting this lecture, focused on the Academic Bank of Credits (ABC). According to him, the ABC Scheme is a credit-based, extremely flexible program that puts students first. His discussion of how participating HEIs must modify their policies regarding course registration, course requirements, acceptance for interdisciplinary and multidisciplinary courses, credits to be offered to these courses, credits to be transferred to and accepted from other approved HEIs, nature of grades to be awarded, etc. with the approval of their statutory bodies, such as the Governing Council/Syndicate/Board of Management/Academic Council. All students interested in obtaining a "Academic Account" in ABC must receive counseling and advice from one of the ABC-registered HEIs, who will also provide information on how to use the services of ABC in terms of credit definition and credit utilization, credit definition, Credit accumulation, Credit transfer, Credit redemption as well as opening, closure and validation of students' 'Academic accounts', provided their request applications are recommended through the parent University/Autonomous or Affiliated colleges which are already registered with ABC.

The session was wonderful and full of knowledge. The speaker gave a lot of inputs to the participants about the Academic bank of credits (ABC) Scheme.

**Day 5: Friday, 8<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-6**

**Timings: 9:30am-12:30pm**

**Program: NEP 2020: Interplay of technology and education**

**Speaker: Dr. Sama Jain, Professor, PIET, Jaipur**

**Session Coordinator: Dr. Bhanu Prakash**

Dr. Sama Jain presented the session on "NEP 2020: Technology and Education Interplay." In her opening remarks, Dr. Jain stated that as education has transitioned from an ICT supported to an ICT integrated model, future successful teachers will be those who are technology literate and possess the most up-to-date, time-tested ICT abilities. She then briefly examined the current state of online education. He focused on the policies created, implemented, and replaced by the UGC to promote, acknowledge, and regulate the many components of online education, drawing conclusions from NEP 2020, which places an emphasis on the extensive use of technology in teaching and learning. After describing the qualities of a digital educator, she went on to clarify that online education can be entirely digital or blended, synchronous (real-time through videoconferencing, YouTube streaming, Facebook live, etc.), or asynchronous (through discussion forums, Google Groups, Facebook posts, etc.). After that, she showed us how to use NPTEL SWAYAM India's first MOOC platform. After that, he gave some thought to how digital technologies may be used to evaluate teaching and learning. She emphasized that the purpose, content, learning objectives, target learners, and the availability of hardware and software at both ends should all be taken into consideration when choosing ICT tools. Some of the digital tools she recommended are Google forms, Canvas, Kahoot, Socrative, etc. She also provided a hands-on-training session for teachers to experience the digital tools and become proficient with them. The session was wonderful and full of knowledge of online and digital education.

**Day 6: Saturday, 9<sup>th</sup> July 2022****Venue: BB-31 Presentation Hall****Session-7****Timings: 9:30 am-12:30pm****Program: Restructuring Curriculum Framework for Higher Education in NEP-2020****Speaker: Dr. Rekha Jain, Professor, PIET, Jaipur****Session Coordinator: Mr. Abhshek Dadhich**

First session of 6th day was delivered by Dr. Rekha Jain on "**Restructuring Curriculum Framework for Higher Education in NEP-2020**". In the institutional level, she stressed on three major concerns. These are the sustainability concerns, concerns for curriculum and pedagogy and the governance concerns. Giving much importance on education for sustainable development, she said that this is the high time to think about our indigenous assets and the policy is also focusing on these issues. According to Dr. Rekha Jain, the NEP, 2020 is unique as it emphasized all the aspects of education, specially the value system. NEP, 2020 aims at restructuring the Indian educational system into a modern, progressive and equitable one and its successful execution calls for a remarkable reorientation of decision-making structures and re-prioritization of the budgetary resources in months and years to come. All the institutions of higher education should have their individual development plans (IDPs). She requested the students, scholars and all the stakeholders to read the policy thoroughly to develop the proper idea for implementation. The participants interacted with

the resource person during the session and discussed the consequences and difficulties of the execution of the restructuring of HEI.

**Day 7: Monday, 11<sup>th</sup> July 2021**

**Venue: BB-31 Presentation Hall**

**Session-8**

**Timings: 9:30 am-12:30pm**

**Program: Quality Education as envisaged in NEP 2020**

**Speaker: Dr. Priya Mathur, Professor, PIET, Jaipur**

**Session Coordinator: Mr. Nitin Mukesh Mathur**

Second session of 7<sup>th</sup> day was delivered by Dr. Priya Mathur on “Quality Education as envisaged in NEP 2020”. She started briefing us about the implementing NEP by explaining the challenges faced by higher education in India. He focused on the main aim of NEP implementation is to set a new framework and shape the education system and the student’s education, aspirations and quality of life. She said that student centric effort to not just provide education but to develop them for the society and organization at the same time. She emphasized the need and care with which NEP is created by keeping the various challenges in mind such as fragmented educational ecosystem, lesser emphasis on cognitive skills, rigidity in discipline separation, limited teachers, and institutional autonomy and so on. The major implications of NEP or the core functions are Teaching, Research and Extension/Services. During the session he has focused on -

- How to design a Student-Centered Learning environment based on automation
- How to encourage the development of global skills and prepare students for the next step
- How to support students who want to start their academic journey abroad using the right guidance

The session was so wonderful for enhancing Quality Education as envisaged in NEP 2020 and expectation and Feedback of participants was very good.

**Day 8: Tuesday, 12<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-9**

**Timings: 9:30 am-12:30pm**

**Program: Research and Innovation perspective at technical HEIs" NEP-2020**

**Speaker: Dr. Anil Kumar, Professor, PIET, Jaipur**

**Session Coordinator: Dr. Aisha Rafi**

On 12th July 2022 Dr. Anil Kumar Professor, spoke on the topic “Research and Innovation perspective at technical HEIs" NEP-2020”. He tried to focus on the importance of multidisciplinary approach in higher education research and also discussed at length about the quality of research and how it is going in extreme specialization without proper quality and ethics. He reiterated that there is a need to understand and work with quality and with full dedication and commitment in conducting research and collaborating with other discipline researchers. He gave a lot of inputs to the participants as to how to conduct

research ethically with all integrity.

The session was so wonderful focused on Faculty- development and capability building and expectation and Feedback of participants was very good.

**Day 9: Wednesday, 13<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-10**

**Timings: 9:30 am-12:30pm**

**Program: Role of Leaders and Managers in implementing NEP 2020**

**Speaker: Dr. Gautam Singh, Professor, PIET, Jaipur**

**Session Coordinator: Mr. Rahul Gupta**

Dr. Gautam Singh, Professor, PIET, Jaipur spoke on “Role of Leaders and Managers in implementing NEP 2020”. He made detailed presentations on various governance issues at the institutional level. The whole higher education architecture he has presented on research, funding, leadership at the institutional level & about access, equity, quality. The different aspects of governance like, legislative, execution, and judiciary were also explained. And about organization, various roles of teachers and maintaining different types of relationships with administration, students and subordinates. He also spoke on the vocations. He also said that the policy is promoting life skills, resilience, and team work and to reach the unreached sections of the society and also he said it is an equitable and inclusive policy. Success of any university depends on quality, governance, leadership for the well-rounded development. The session was quite informative, elaborative and useful for participants. Feedback of participants was very good.

**Day 10: Thursday, 14<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-11**

**Timings: 9:30 am- 12:30pm**

**Program: Transforming the Regulatory System of Higher Education**

**Speaker: Mr. Deepak Moud, HoD CS, PIET, Jaipur**

**Session Coordinator: Mr. Vikaram Khandelwal**

In Session 11 on Transforming the Regulatory System of Higher Education, Mr. Deepak Moud, Head, Department of CS, provided a professional presentation. Mr. Moud explained how attempts to govern higher education have been made much too frequently and with far too little success. The regulatory system's mechanistic and disempowering nature has been riddled with extremely fundamental issues, such as significant power concentrations within a few number of authorities, conflicts of interest among these bodies, and a concomitant lack of accountability. To re-energize and enable the higher education industry to flourish, the regulatory system needs to be completely overhauled. At the end of the session, he also clarified the queries raised by the participants.

**Day 11: Friday, 15<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-12**

**Timings: 9:30 am- 12:30pm**

**Program: Reforms in the Education System through National Education Policy**

**Speaker: Dr. Budhesh Kanwar, Professor CS, PIET, Jaipur**

**Session Coordinator: Mr. Ashok Kumar**

Dr. Budhesh Kanwar started the deliberation highlighting the focal points on reforms in the Education System through National Education Policy as education plays a critical role and a central feature of global competitiveness. She discussed issues on the roadmap towards equity and inclusion and also raised a question on how to include excludes. In her speech he pointed out reforms the Policy initiative is bringing into limelight and talked about the positives as well as negatives of it. She also stated that “Most of the time students are not exposed to imaginative, inquisitive and reflective modes of learning which can ignite minds but makes them settle to the humdrum and drill of everyday life”. She also added that the goals of education are ‘economic growth, social justice & equality, scientific advancement, national integration & cultural preservation, which the NEP is trying to achieve in its objective. The session was quite informative, elaborative and useful for participants. Feedback of participants was very good.

**Day12: Saturday 16<sup>th</sup> July 2022**

**Venue: BB-31 Presentation Hall**

**Session-13**

**Timings: 9:30 am- 12:30 pm**

**Program: Vocational Education: Innovation in National Education Policy**

**Speaker: Dr. Gautam Singh, Professor, PIET, Jaipur**

**Session Coordinator: Mr. Nitin Mukesh Mathur**

In light of NEP 2020, Dr. Gautam Singh proposed the following perspective for vocational education in India. Make vocational education an aspiration, prepare young people for future skills, ensure quality improvement in vocational education, outcome-centric vocational education, ensure the employability of vocational courses, and provide higher education opportunities for those who have completed the vocational education stream. He stated that higher education institutions offer the possibility of continuing vocational education. Increasing access to career-focused education in colleges. Every student in the school should teach at least one skill; link local businesses, colleges, and schools; integrate ICT into skill training; implement a robust credit system in the vocational education stream; and place an emphasis on cutting-edge courses like artificial intelligence, data science, block chain, machine learning, etc. To prepare students for further education and the workforce, ensure academic parity with vocational courses. Participants found the session to be amazing, educational, elaborate, and helpful. Participants provided extremely positive feedback.

**Day 12: Saturday 18<sup>th</sup> December 2021**

**Venue: BB-31 Presentation Hall**

**Timings: 1:30pm -3:00 pm**

**Program: Valedictory session**

**Session Coordinator: Dr. Krati Sharma**

The Valedictory address was delivered by Dr. Dinesh Goyal, Director/Principal, PIET, Jaipur. He, in his lecture, talked about the importance and significance of this program. After the Valedictory session, all the participants were requested to present the summary of various FDP sessions.

Participation Certificates were distributed to the participants by Dr. Dinesh Goyal (Director/Principal), Dr. Gautam Singh, (Registrar), Mr. Deepak Moud (HoD, CS) and Dr. Sama Jain (HoD First Year). In this program, there were a total of 13 sessions, question and answer sessions, assignments, and feedback for the participants. During this session, a number of participants gave their feedback about the program. Dr. Gautam Singh, Registrar, PIET, Jaipur addressed the audience and talked about Students as the stakeholders and central to the New Education Policy. NEP provides more opportunities to learn whatever they like from multiple places. Dr. Mukesh Chandra, Coordinator, IQAC delivered the vote of thanks and concluded the all sessions of FDP.



