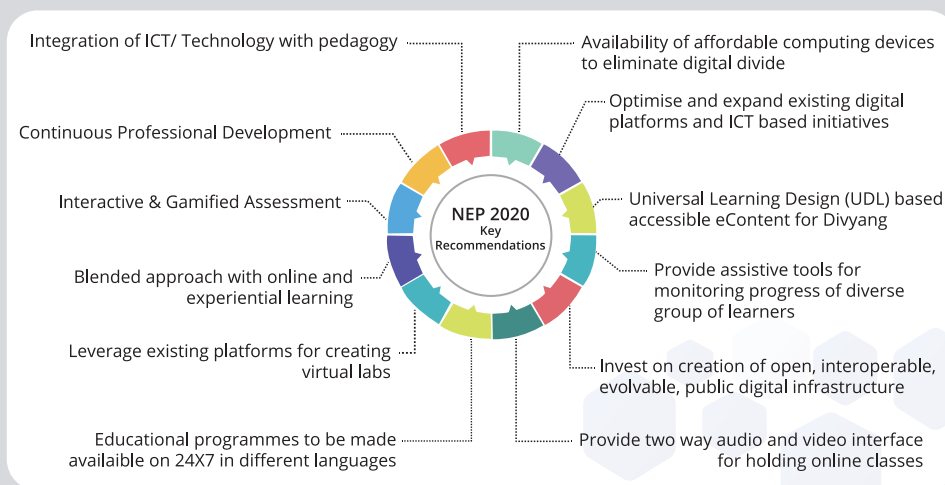


Technology Initiative for Reaching Out and Bridging Digital Divide

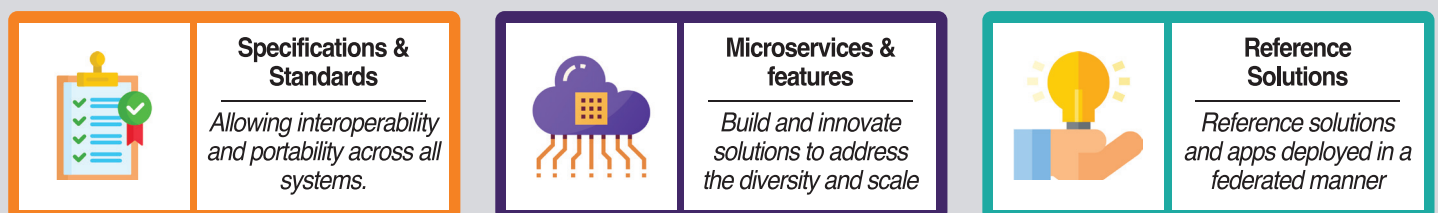
Technology use and its integration has become one of the basic building blocks of modern society within a short span of time, hereby making it an essential part of education. The National Education Policy (NEP) - 2020 envisions extensive use and integration of technology in teaching, learning, and assessment, to transform India into a digitally empowered society and knowledge economy.

The NEP 2020 further states that the thrust of technological interventions will be for data-based decision making, supporting professional development, overcome language barriers, support DIVYANG, enhancing educational access, and streamlining educational planning, management, and administration, including processes related to admission, attendance, assessment, etc. The recent efforts of the Government of India (GoI) seek to integrate the use of technology in almost every sphere of life. Given the emergence of digital technologies and the importance of leveraging technology for teaching-learning at all levels of school education; from foundational (Primary & Grade 1 to 2) to Secondary (Grade 9 to 12) level, teacher & adult education; the NEP-2020 recommends the following key initiatives:



The National Digital Education Architecture (NDEAR), developed as part of the implementation of NEP-2020 vision and goals of National Educational Technology Forum (NETF) is a globally pioneering effort in education to create a unifying national digital infrastructure to energise and catalyse the education ecosystem. NDEAR envisions Digital Infrastructure for School Education which is federated, unbundled, interoperable, inclusive, accessible, evolving, and aims to create and deliver diverse, relevant, contextual, innovative solutions that benefit students, teachers, parents, communities, administrators and result in timely implementation of policy goals.

Goals of National Digital Education Architecture



With the Implementation of the NEP-2020 vision, all the digital education initiatives under the Ministry of Education, Government of India have got further impetus and getting conversed through the PMeVidya programme of the Department of School Education and literacy. The flagships initiatives under PMeVidya includes DIKSHA, SWAYAM, SWAYAM Prabha, NISHTHA, ePathshala, Vidya Samiksha Kendra (VSK) :

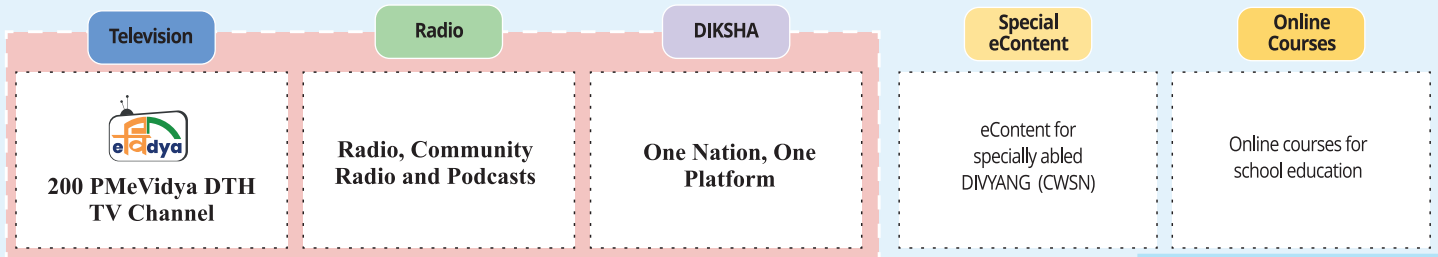


PMeVidya



A comprehensive initiative that unifies all efforts related to digital/ on-air education to enable multi-modal & synchronous access to education.

PM eVidya focuses on developing multi channel learning continuum



DIKSHA, Television and Radio are combined together for a resilient and coherent access to digital education



Television

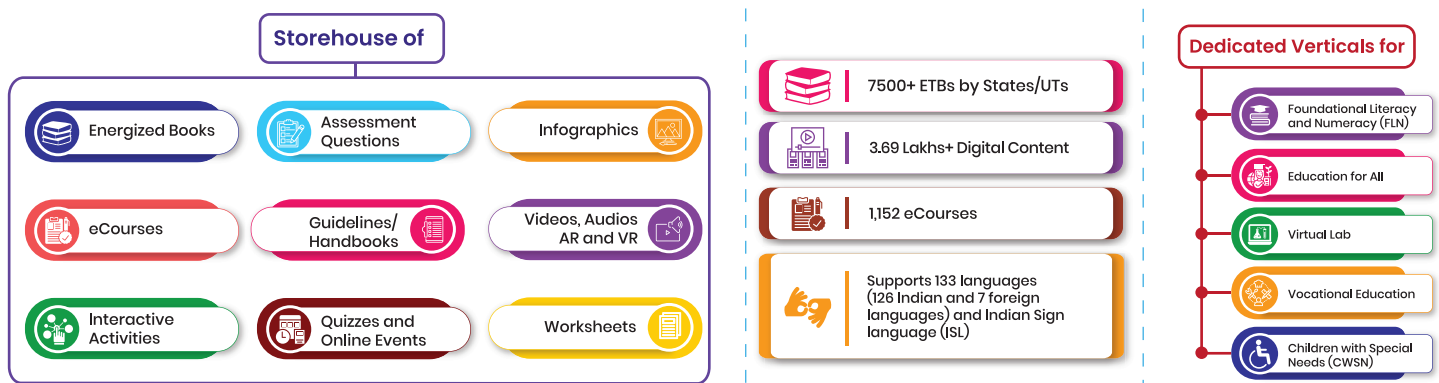
- 200 DTH TV Channels on 24x7 daily basis and simulcast on YouTube channel, etc.
- 1 Lakh+ curriculum based videos developed for school education including vocational education
- Videos in English, Hindi including Indian Sign Language (ISL)
- One hour live session for each class to clarify doubts
- IVRS and email support for addressing queries
- Over 12,242 Live shows broadcast under PMeVidya

Radio

- 4750 curriculum-based radio programmes (Classes 1 -12)
- Broadcast on 393 Radio Stations (3 GyanVani FM Radio Stations, 257 Community Radio Stations, 132 All India Radio stations, 1 iRadio) and JioSaavn mobile apps
- 12,500+ live programs broadcast on iRadio
- 5468 audio books' chapters and programmes
- 82 Books in DAISY format

DIKSHA (Digital Infrastructure for School Education)

DIKSHA declared as digital public goods, is conceptualised as 'One Nation One Digital Platform'. It is developed on the core principles of open architecture, open access, open licensing, diversity in choice, and autonomy. The platform is built on open source technology, which incorporates internet-scale technologies and enables several use-cases and solutions for teaching and learning.



NDEAR VIDYA SAMIKSHA KENDRA (NVSK)

Analysis & Visualization of data for National level Program



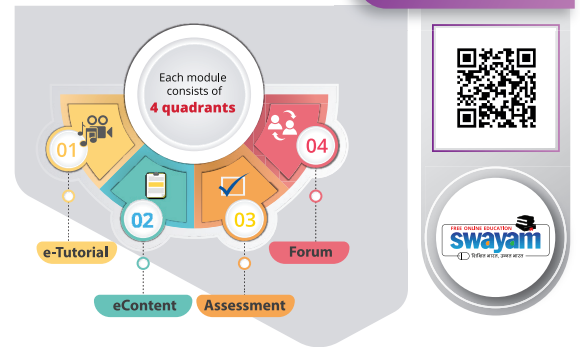
eContent for Children With Special Needs (CWSN)

- Videos enriched with Indian Sign Language (ISL)
- Audio/ Talking Books
- Universal Design for Learning-based digital content
- Teaching Learning intervention for inclusive classroom

SWAYAM (Study Webs of Active learning for Young Aspiring Minds) for School Education & Teacher Education

SWAYAM focuses on three cardinal principles of educational policy viz. Access, Equity, and Quality. Massive Open Online Courses (MOOCs) for school education for Classes XI-XII is offered through this portal in a four-quadrant approach to supplement/ complement the learning process in school. It aims to enrich students' knowledge and facilitate their learning process.

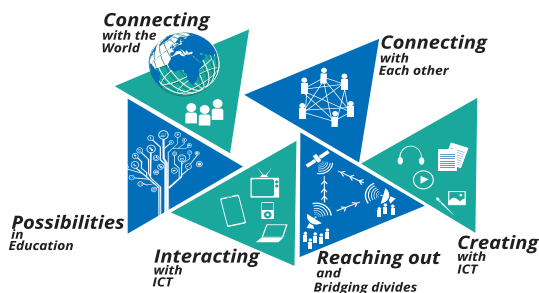
- 28 Courses across 11 Subjects of Class XI & XII
- Around 5 Lakh+ beneficiaries across 15 cycles



Curricula for ICT in Education for School System

This is an initiation into exploring educational possibilities of technology and becoming a critical user of ICT. Capacity building of various stakeholders is being done through webinars, online courses, online/ face-to-face training. A course on Cyber Safety and Security is also available.

ET/ICT courses' beneficiaries : 10.85 Lakh+



Guidelines for Cyber Safety and Security

Beneficiaries : 8.20 Lakh+

ePathshala

Epathshala website and mobile app houses the digitised textbooks of NCERT as PDFs, Flipbooks and also in EPUB format (which support text-to-speech for CWSN). The repository also contains contents mapped to the textbooks through QR codes that are printed on physical textbooks and are freely available as OER.



Mobile Apps

There are ten mobile apps have been developed and disseminated for all the stakeholders.



National Initiative for School Heads' and Teachers' Holistic Advancement

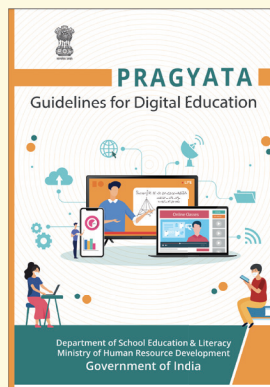
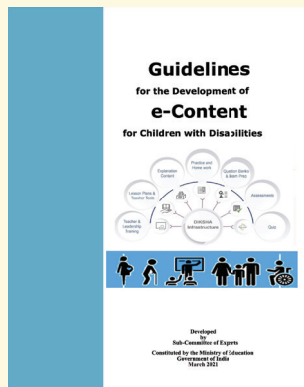
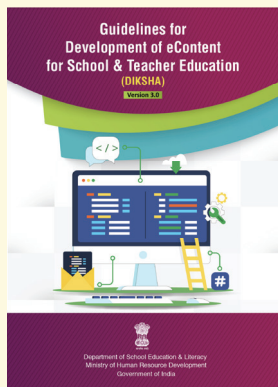


National Initiative for School Heads' and Teachers' Holistic Advancement (NISHTHA), an integrated training programme aims at holistic development of teachers and school heads. As per the recommendations of NEP 2020, NISHTHA focuses on providing CPD opportunities on the latest pedagogies regarding foundational literacy and numeracy, formative and adaptive assessment of learning outcomes, competency-based learning, and related pedagogies, etc. State Resource Groups (SRGs) of 34 States/ UTs participated in face-to-face training of NISHTHA Elementary and around 23,000 SRGs, 18,000 teachers & school heads were trained. In the COVID pandemic situation, NISHTHA was implemented online.



<ul style="list-style-type: none"> • 18 Courses • 30 States/ UTs and 7 autonomous bodies under MoE and MoD • 11 languages - Assamese, Bengali, Bodo, English, Kannada, Hindi, Telugu, Odia, Gujarati, Punjabi and Urdu 	<ul style="list-style-type: none"> • 12 Courses • 33 States/ UTs and 8 autonomous bodies under MoE, MoD and MoTA • 10 languages - Hindi, English, Urdu, Gujarati, Punjabi, Telugu, Kannada, Bengali, Marathi and Odia 	<ul style="list-style-type: none"> • 12 Courses • 33 States/ UTs and 5 autonomous bodies under MoE • 11 languages - Hindi, English, Urdu, Gujarati, Punjabi, Telugu, Kannada, Odia, Assamese, Marathi and Mizo 	<ul style="list-style-type: none"> • 6 Courses • 30 States/ UTs 5 autonomous bodies under MoE • 2 languages - English & Hindi
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Guidelines and Standards for Digital Education



International Collaborations



Bhutan



Mauritius



KERIS

South Korea



Israel



Nepal

Other initiatives

- Manodarpan-IVRS based 24x7 Counselling Support
- SAHYOG DTH TV live Support for Counselling Services
- Online quizzes and competitions
- eContent Development Competition and ICT fair
- e-jaadui pitara (<https://ejaaduipitara.ncert.gov.in/>)
- Bharat on the Moon (<https://bharatonthemoon.ncert.gov.in/>)

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