



Navodaya Vidyalaya Samiti



Digital Initiatives in Education



Navodaya Vidyalaya Samiti

1

- Navodaya Vidyalaya Scheme came into existence as per the National Policy on Education - 1986

2

- Union Cabinet Committee approved the scheme on 5th August, 1985.

3

- As per the scheme, one JNV is sanctioned in each district

4

- Admission of students in JNVs is only through all India level selection test.

5

- Initially, 02 JNVs were opened during 1985-86 as Model Schools.

6

- JNVs are residential co-educational schools providing modern quality education to students predominantly from rural areas, free of cost



Navodaya Vidyalaya Samiti at a Glance

NVS HQ

**7 National
Leadership
Institutes**

**8 Regional
Offices**

649 JNVs

**3 lakh
Students**

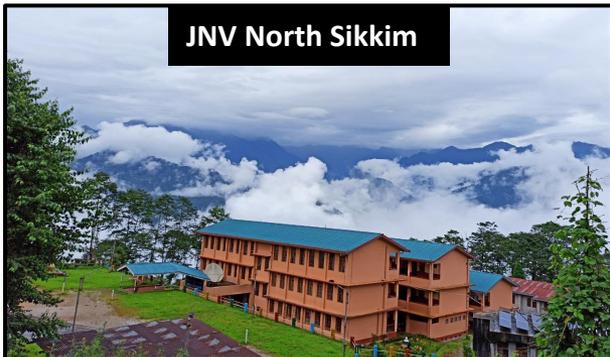
**Around
25,000
Employees**



JNV Leh



JNV Shimla



JNV North Sikkim



JNV Lahaul & Spiti



JNV Kargil



Mission and Vision of NVS

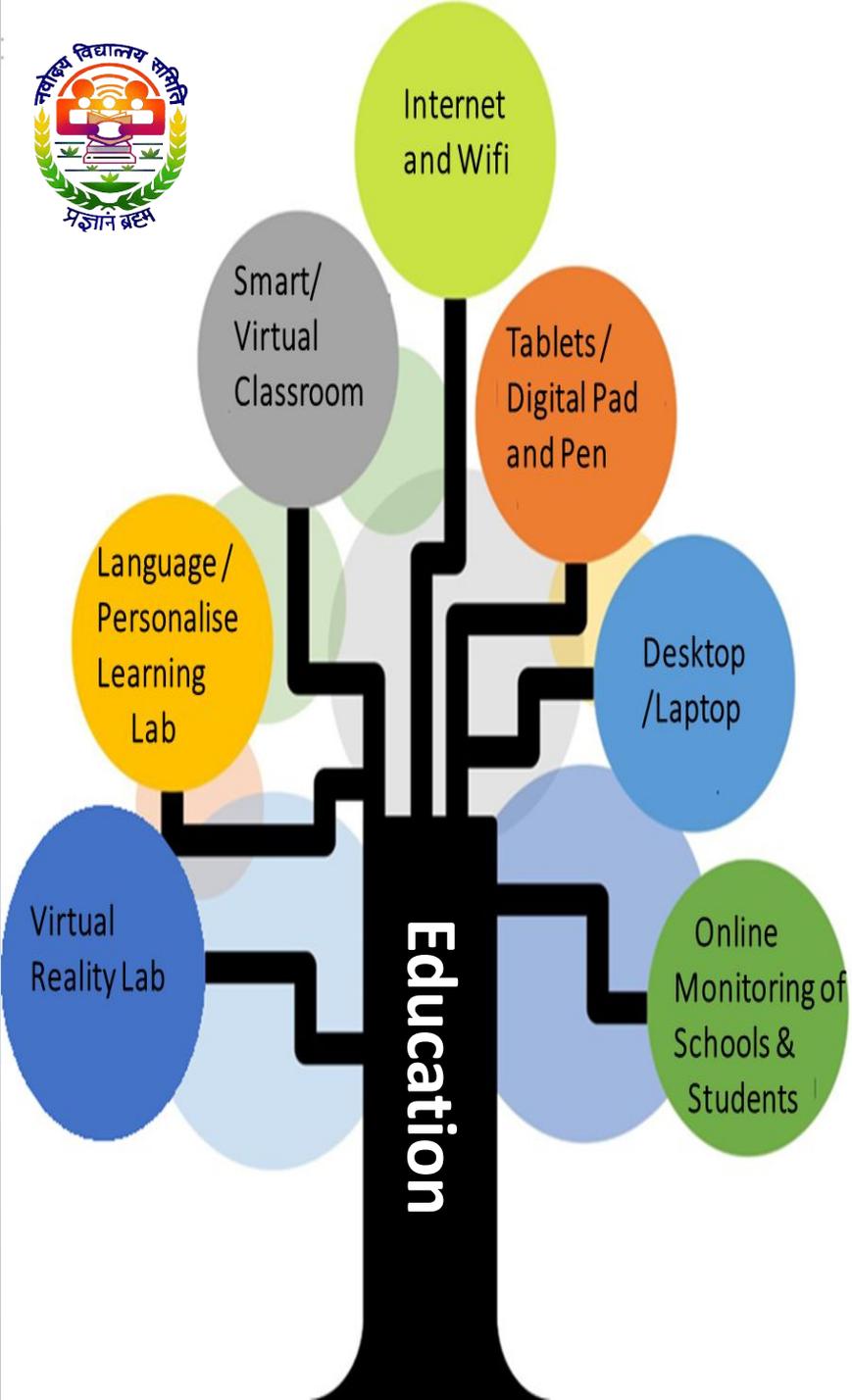
Nurturing Rural Talent

To provide good quality modern education including a strong component of culture, inculcation of values, awareness of the environment, adventure activities, and physical education- to talented children predominantly from rural areas without regard to their family's socio-economic conditions.



Academic Performance

Class-XII (2022)		Class-X (2022)	
No of JNVs	561	No of JNVs	625
No of students appeared	35725	No of students appeared	45529
No of students with First Division	34042	No of students with First Division	41549
No of students getting Centum	330	No of students getting Centum	965



Digital Initiatives

Education

Impact of Digital Initiatives





National Education Policy 2020



Technology Use and Integration



Digital Infrastructure



Face to Face, Digital and Blended mode of Education



**Optimal Learning Environments and Support for
Student*s**



Holistic and Multidisciplinary Education



Teacher Education

ICT Infrastructure in JNVs



 Well Equipped Computer Labs
(Computers/Laptops, Projectors)

 Smart Classrooms in each JNV
and at least 01 Smart Labs

 Tablets for all XI and XII Students

 Digital Pen and Pad for Teachers
for
Online Teaching

 Internet Connectivity with
WiFi



Smart Classroom Implementation

Setting up of Smart Classrooms & Virtual Classrooms

In order to ensure that every JNV has an equitable, effective, digital learning environment, NVS is doing continuous efforts.

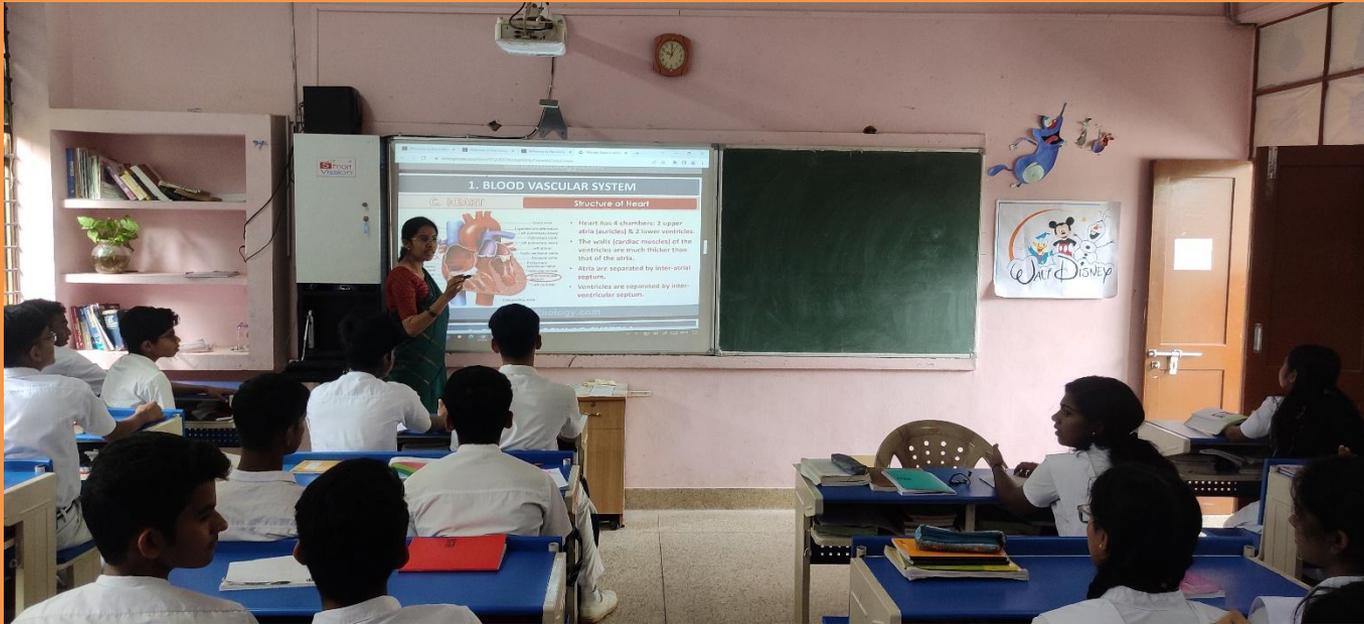


During 2021 in 99 Jawahar Navodaya Vidyalayas (JNVs) 1173 Smart Classrooms has been set up.

During 2022, in the remaining 550 Jawahar Navodaya Vidyalayas, 1100 Smart Classrooms were setup, 2 Classrooms in each JNV.

Virtual classroom were setup, one in each NLI and 02 in each 4 centres of Excellence.

Implementation of Smart/Virtual Classrooms

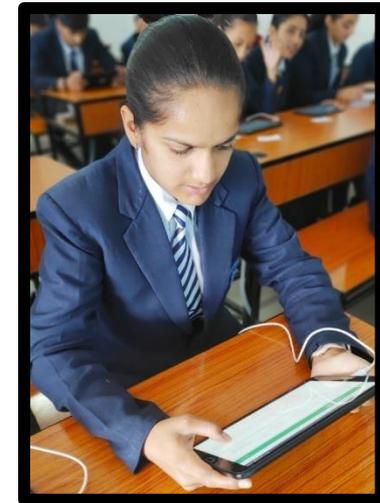


Classrooms are equipped with interactive boards along with Mini PC and WiFi.

Tablets for all Senior Secondary Students

Class XI & XII students are provided with tablets.

The study material and educational apps are pre-loaded



Tablet Computer Devices



➔ Navodaya Vidyalaya Samiti has procured **68940** tablets for class XI and XII students of JNVs.

- ☑ Pre-loaded Study Material for relevant classes and preparation of competitive examinations
- ☑ Education Applications such as Diksha, E-Pathshala, NTA Abhyas etc
- ☑ Mobile Device Management (MDM) has pre-installed in all the tablets for controlling and monitoring of the tablets.
- ☑ One 128 GB External Memory Card and One Ear Phone

Computer Lab



Jawahar Navodaya Vidyalayas have computer labs well equipped with desktop systems/laptops and high-speed internet connectivity.

Internet Connectivity

Internet facility is available in all the JNVs. Initiatives have been taken to enhance the internet facility in all the JNVs to minimum 20 Mbps dedicated leased line internet connection in all the JNV.



Internet Connectivity	No of JNVs
Broadband	252
FTTH Line	80
Leased Line	314
VSAT	3

VSAT Connectivity for Extreme Remote JNVs



VSAT link connectivity is available at 3 JNVs as under:-

1. JNV Dibang Valley (Arunachal Pradesh)
2. JNV Anjaw (Arunachal Pradesh)
3. JNV Minicoy, Lakshadweep



Microsoft Teams LMS for Online Education

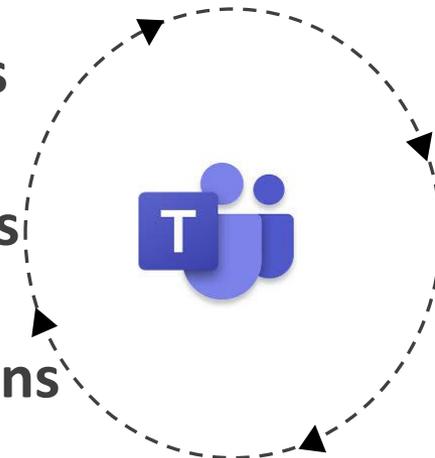


- **Collaborated with Microsoft in providing a platform for Online Teaching – Learning.**

330161 Users

68121 Groups

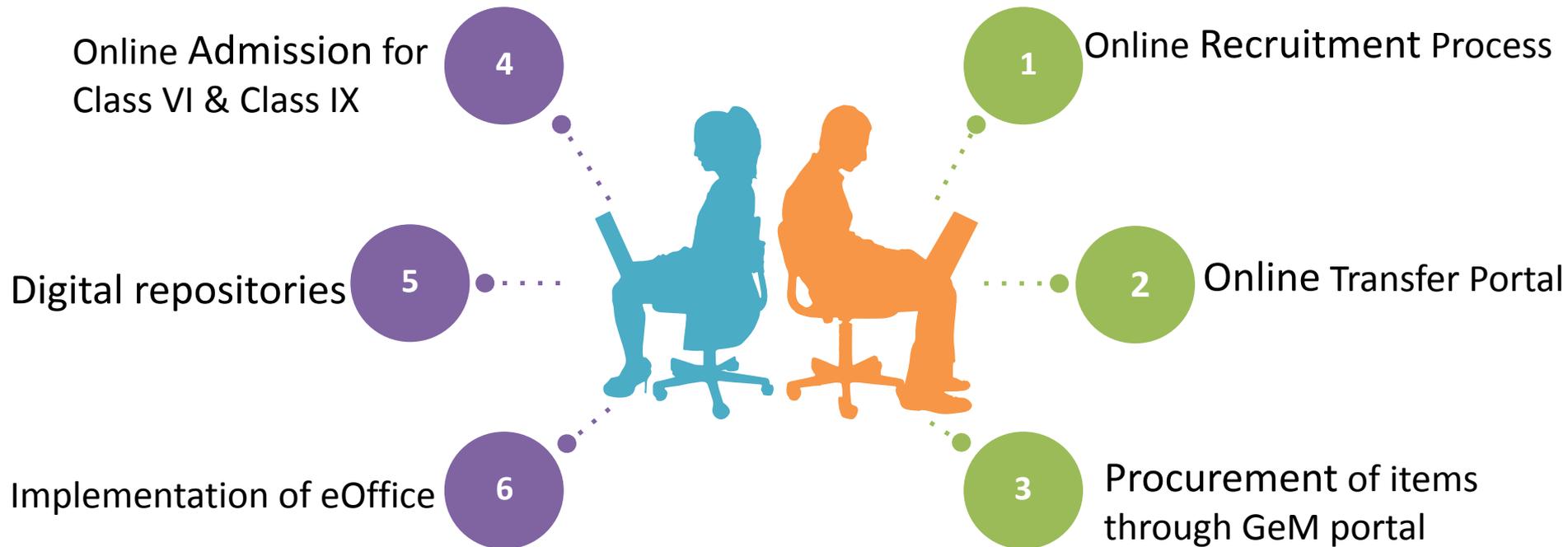
54 Applications



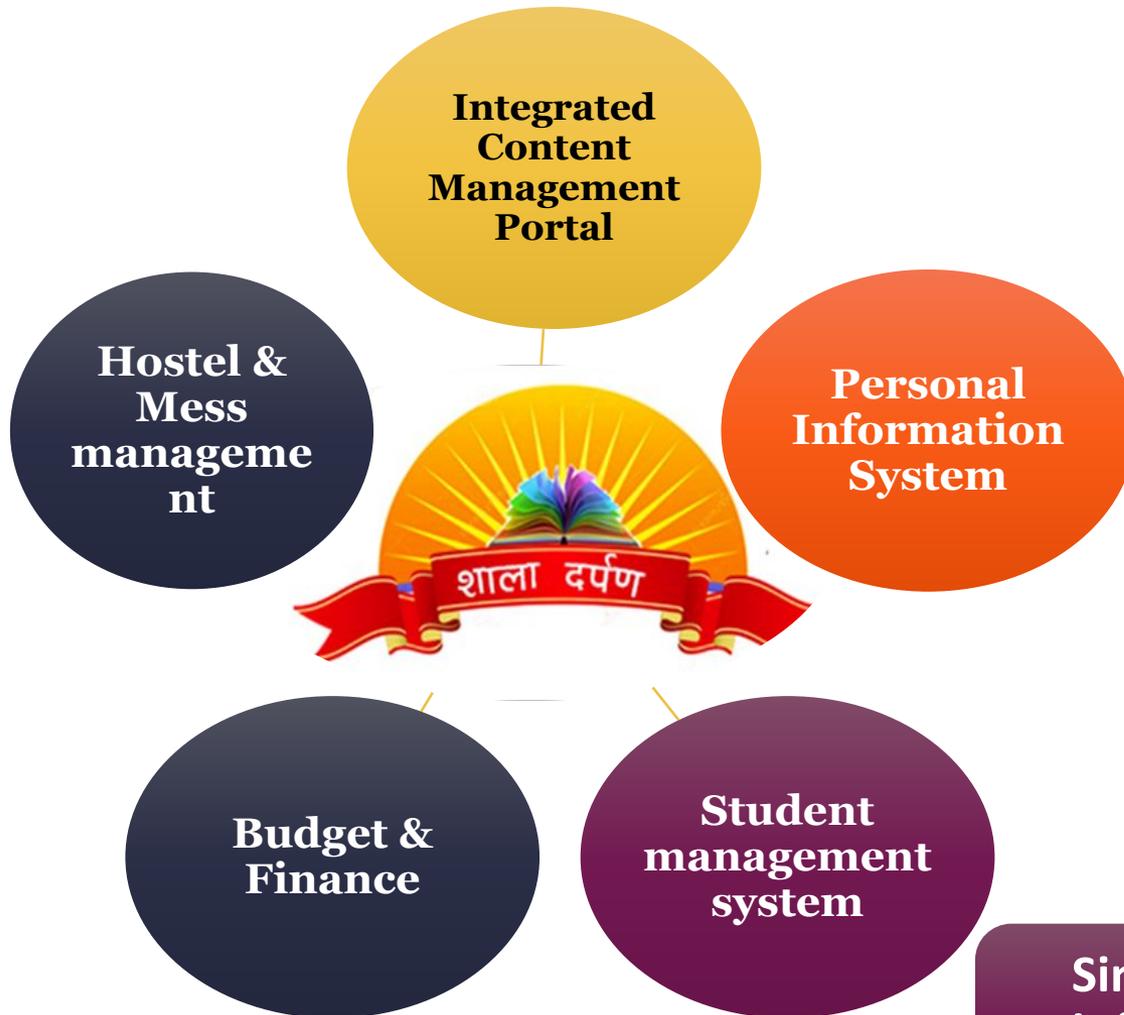
16

Students and other staff have been provided online training/assistance regarding the functionality of the MS Teams.

Digital Administration



Shaala Darpan



Shaala Darpan is an end to end **e-Governance School Automation and Management System**. It has been implemented at NVS as the **first major initiative** to enable automation of all activities of the country's largest residential schooling system through a single umbrella - 649 schools, 8 Regional Offices, 7 NLIs and Head Quarter.

Single Integrated Platform for information sharing and knowledge dissemination

Integrated Content Management Portal



649 Bi-Lingual portals for each school and office of NVS

Built using Open Source technologies

Individual dashboards for schools/offices to manage and update their content

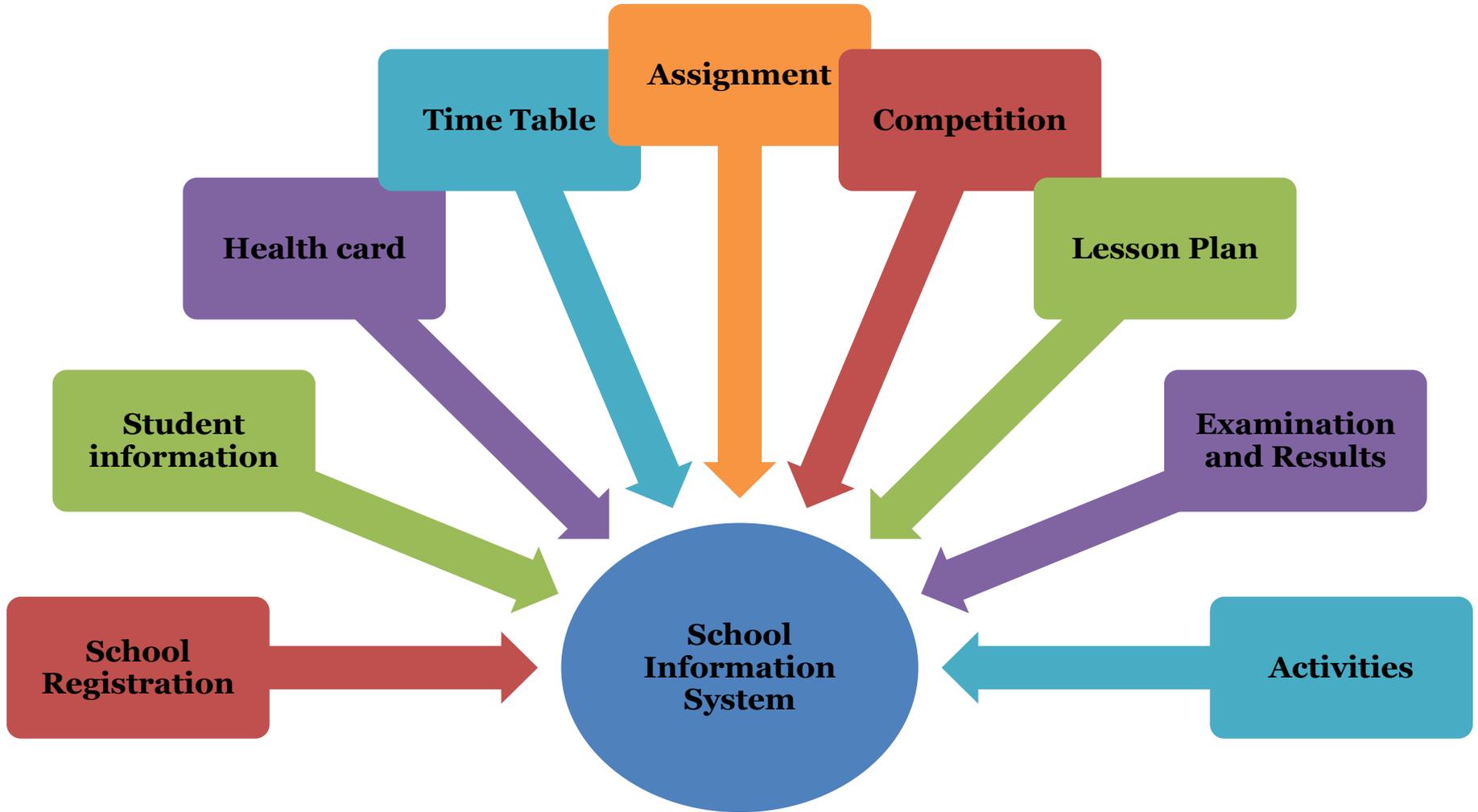
Smart search facility to search for information in individual portals

Provision for information update from central location – one update makes information visible in all portals

Uniform templates for all schools and offices of NVS



Student Information System



NVS Online Grievance Redressal Mechanism (NVS GRM)



NVS “Grievance Redressal Mechanism” has been launched w.e.f. 20.09.2021. JNV employees and students/parents may lodge their grievance for quick disposal by the Principal/RO Concerned.

Alumni Portal

Alumni Portal to facilitate NVS Alumni to connect with JNVs & other Alumni.

Link- NVS HQ- Home Page- Shaala Darpan

<https://sis.nvsonline.in/NVS/Alumni>

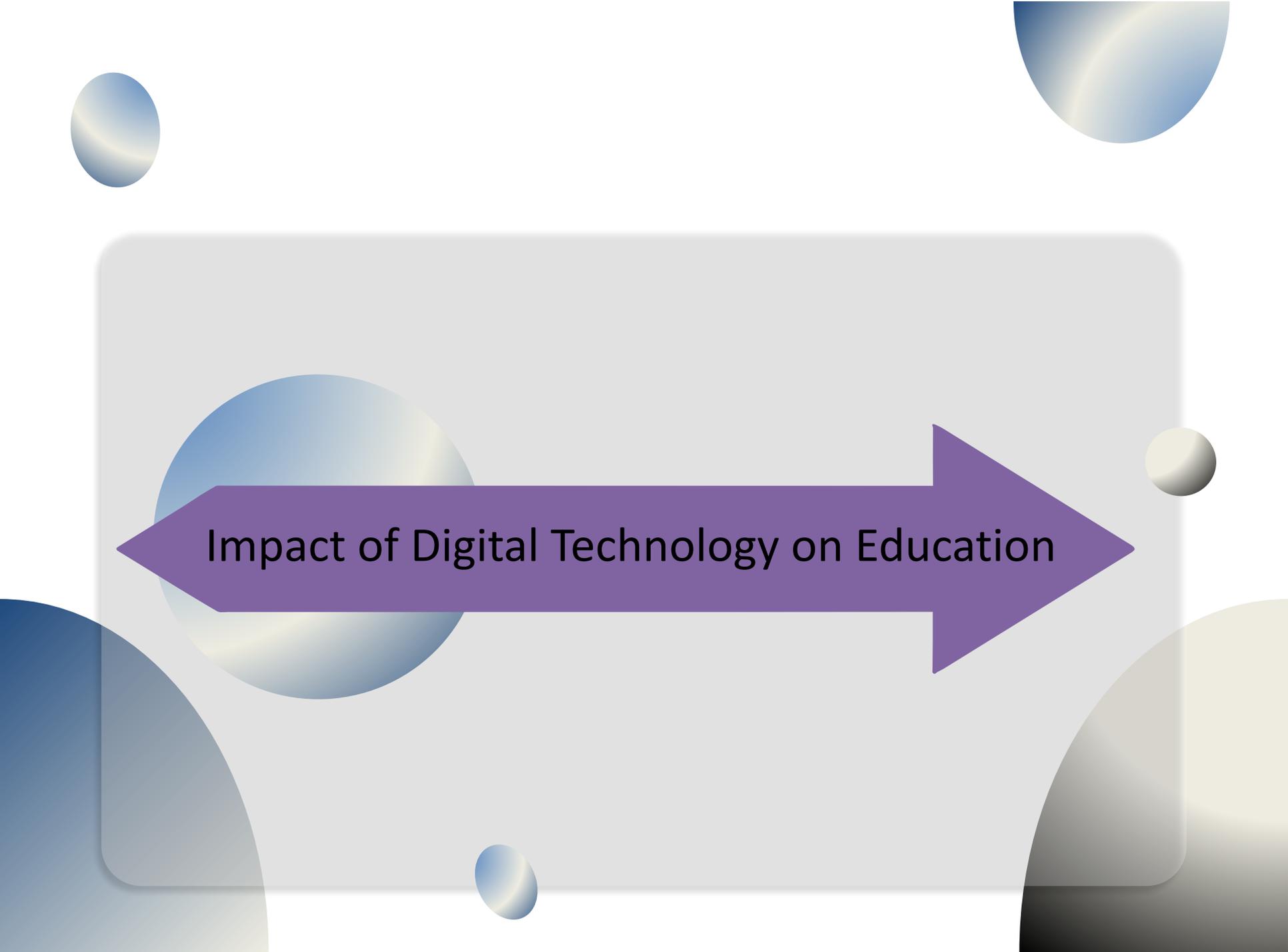
Mentorship for JNV Students

Support for JNVs

Shaala Darpan

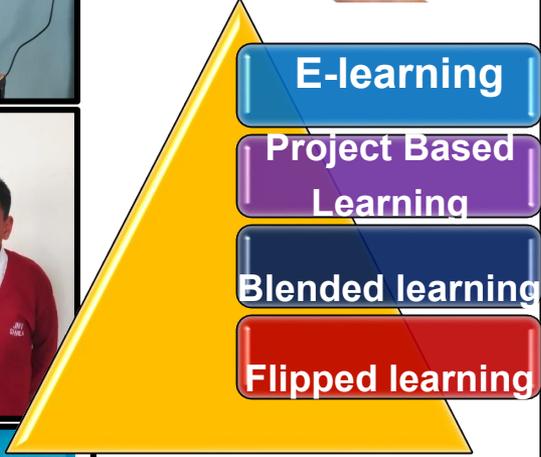
- 📌 Admin/Employee Login
- 📌 Master Trainer Login
- 📌 School Management System
- 📌 Alumni Portal
- 📌 Grievance Portal





Impact of Digital Technology on Education

ICT Enabled Classroom Transaction



IIT Bombay

Ref No. STHHSTA2022/002 Date: 08/08/2022

To
The Deputy Commissioner
Navodaya Vidyalaya Samiti
Regional Office, Chandigarh

Subject: Spoken Tutorial, IIT Bombay 2022 Award for JNV Shimla (HP) - reg. Madam,

Greetings from IIT Bombay Spoken Tutorial!

Congratulations. We feel proud to inform you that **Jawahar Navodaya Vidyalaya Theog, Distt. Shimla (Himachal Pradesh)** has been selected for the Spoken Tutorial, IIT Bombay 2022 award, to be conferred during our upcoming **"National Level Conclave on Spoken Tutorial Teaching: Learning Best Practices and Award Ceremony 2022"** to be held on August 17, 2022 at IIT Bombay Campus. The conclave will witness participation from schools, NGOs, colleges & universities across the nation.

This is pertinent to mention here that JNV Shimla has been adjudged as the **Best School Resource Centre of Spoken Tutorial Project of IIT Bombay at National Level**, to train students of JNV Shimla and surrounding institutions on various FOSS based Tools free of Cost.

Further, the contribution of **Sh. Amit Kumar, PGT (Computer Science), JNV Shimla** and Coordinator, IIT Bombay Spoken Tutorial Project, for implementation of the **"Blended Learning Model using FOSS based MOOCs"** at School Level and replicating the same as Resource Person, through trainings during various National workshops & FDPs in Schools and colleges in the state of Himachal Pradesh, Punjab and Haryana, is exemplary. Considering his expertise and vast experience, you are requested to depute **Sh. Amit Kumar**, to attend the conclave to receive the above mentioned award and on behalf of JNV Shimla and share his benign knowledge on the subject so that the best teaching-learning practices may be imbibed by more and more institutions. His gracious presence will add value to the conclave & it will be duly acknowledged & certified.

The program is a full day event and will commence at 9 AM on August 17, 2022. Lunch & Refreshments will be served to all participants along with a Coochare Kit. Please note there is no registration fee and the participants need to confirm their presence through following Google Form by Monday i.e. 8th August 2022 (6PM).

Fill this Google Form for confirmation: <https://forms.gle/79ub6ixYH6Cz7Dz9>

For and On Behalf of
Spoken Tutorials,
Indian Institute of Technology, Bombay

Akanksha Saini
National Coordinator
Spoken Tutorial Project, IIT Bombay

Blended Learning – Achievement
Jawahar Navodaya Vidyalaya Theog, Distt. Shimla
(Himachal Pradesh), adjudged as the Best School
Resource Centre of Spoken Tutorial Project

Utilization of tablets in School



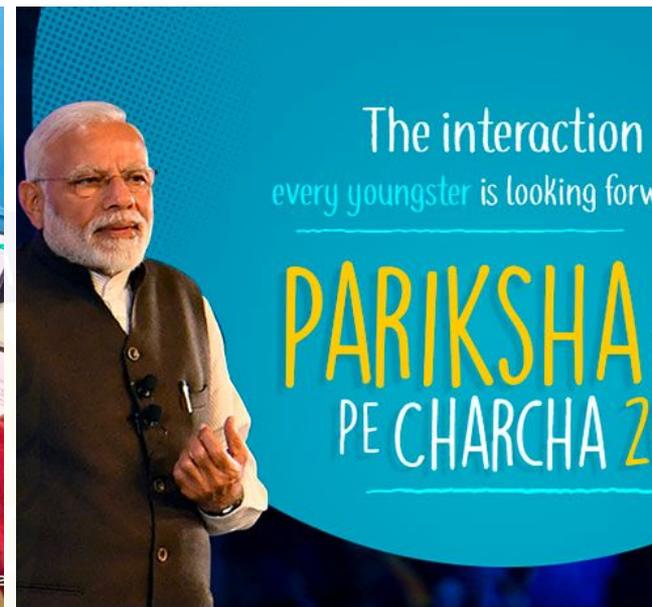
Online learning

Students are attending online lectures provided by knowledge partners and also discovering additional online content prescribed from teachers



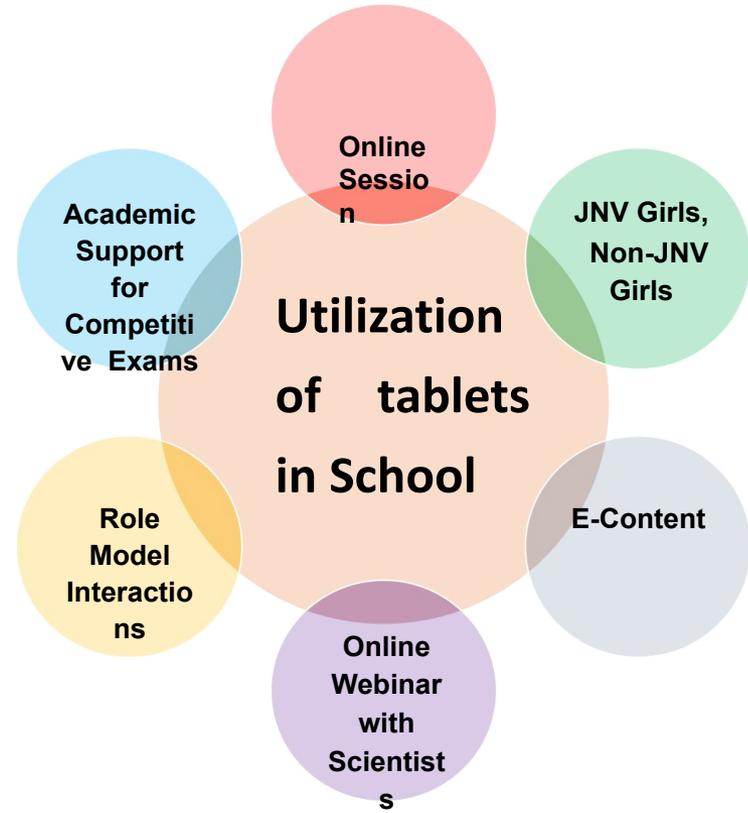
Mock Test

Students are regularly attending Mock tests for different competitive exam and preparing themselves



Webinars

Students are attending webinars/seminars



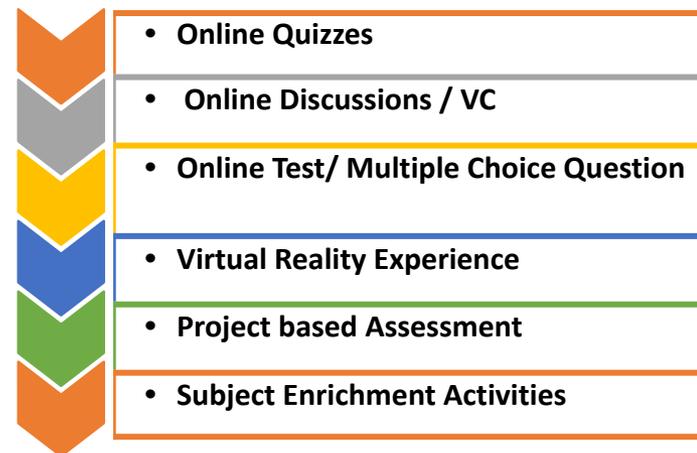
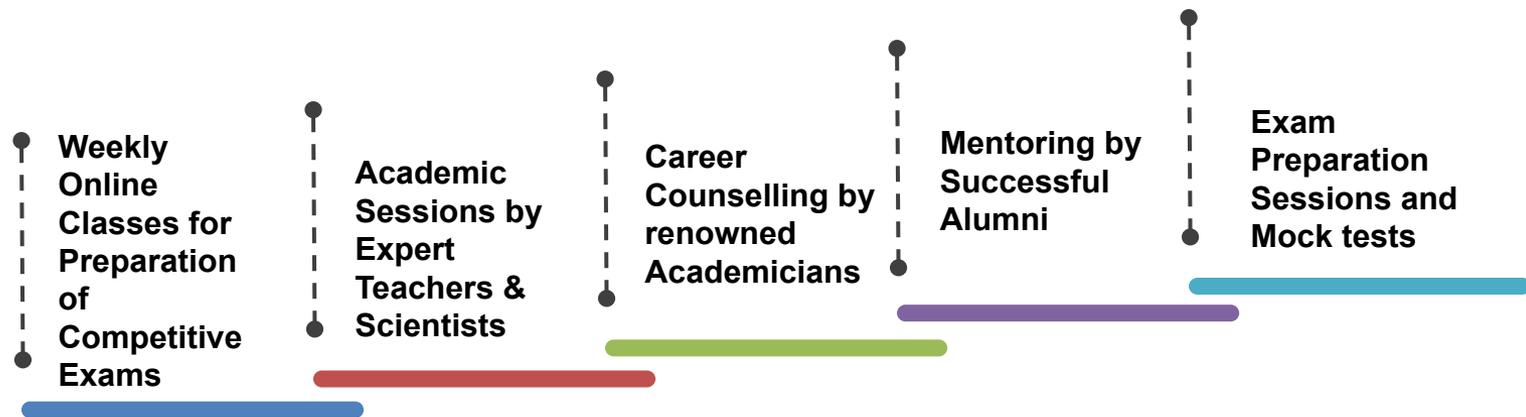
JNV Enable Program



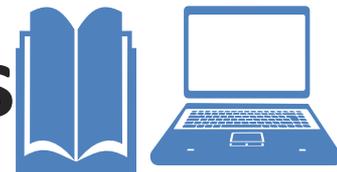
A screenshot of a mobile application interface. At the top, there are logos for Tata Motors and 'अवनी' (Avani). Below the logos, the text 'JNV ENABLE' is displayed in a bold, black font, underlined with a yellow bar. Further down, the full name of the program is written in a smaller font: 'Engineering NEET Admission Bridge Accelerated Learning Engagement'. The interface is clean and modern, with a white background and clear typography.

Enable, short term for "Engineering NEET Admission Bridge Accelerated Learning Engagement" is a remote ⁴ learning program supported by Tata Motors Ltd. for providing competitive examinations preparations support to students of all JNVs through online mode.

Use of Smart Classrooms / Tablets/ Personalised Lab for the Student's Competency Development



Digitalization of School Libraries



The JNV Libraries are equipped with the latest information technology tools to provide pinpointed and exhaustive information to the users. Presently libraries using the specialized library management software (e- Granthalaya 4.0 Cloud Version) developed by the National Informatics Centre, Government of India.

Technical processing of books - data entry, classification, cataloguing has been done with this software. OPAC has been made available for the users in the library.

Therefore users can access the library catalogue, e-resource materials, and e-books 24*7 through remote locations also. The present status of library automation in JNVs is as follows:

Total no. of JNVs	Total no. of JNVs Subscribed e-Granthalaya 4.0 Cloud version Library Software	Total no. of Titles	Total no. of Copies	Total no. of library Members
649	640	3464027	4022654	237618

Online Teacher Training & Webinars

The top-left screenshot shows a presentation slide titled "Meaning of School Leadership in Indian Context". The slide features a central circular diagram divided into four quadrants: "Influence others" (top-left, blue), "Direct others" (top-right, red), "Working with others" (bottom-left, green), and "Empower others" (bottom-right, yellow). To the left of the diagram is a blue box labeled "Core Functions of School Leadership". The top-right screenshot shows a grid of 20 video conference participants in a virtual meeting.



The bottom screenshot shows a web browser displaying the GeoGebra website. The page title is "Resources" and the search term is "PARABOLA". Several resource cards are visible, including "BOOK Conic Sections" by Tim Brzezinski, "ACTIVITY Conic Section Explorations" by Tim Brzezinski, "ACTIVITY The 3 forms of Quadratic functions" by shantee, and "ACTIVITY Parabola: Locus Definition" by Tim Brzezinski. On the right side of the browser window, there is a video conference window showing a man with glasses. The system tray at the bottom indicates the time is 04:25 PM on 2020-09-03.

Digital Initiatives for Professional development of Staff in NVS

Trainings during the COVID pandemic

Exposure to Virtual Classroom Management & Assessment through dedicated digital tools & platforms was given to all the teachers.

Teachers were trained on specific teaching-learning s/w like GeoGebra, Kahoot, Mentimeter, presentation tools etc for interactive learning.

Online training sessions were conducted on Cyber Safety & Security, Digital payments & Frauds, value education etc in association with reputed organizations for creating awareness among the staff.

Hands on online sessions were organized on the use Virtual labs / OLABs. Need based trainings were organized in the areas like Blended & Online teaching, Competence based Education, Open Educational Resources etc.

Series of online workshops on Teaching, Testing & Evaluation for Regional Language teachers were conducted.

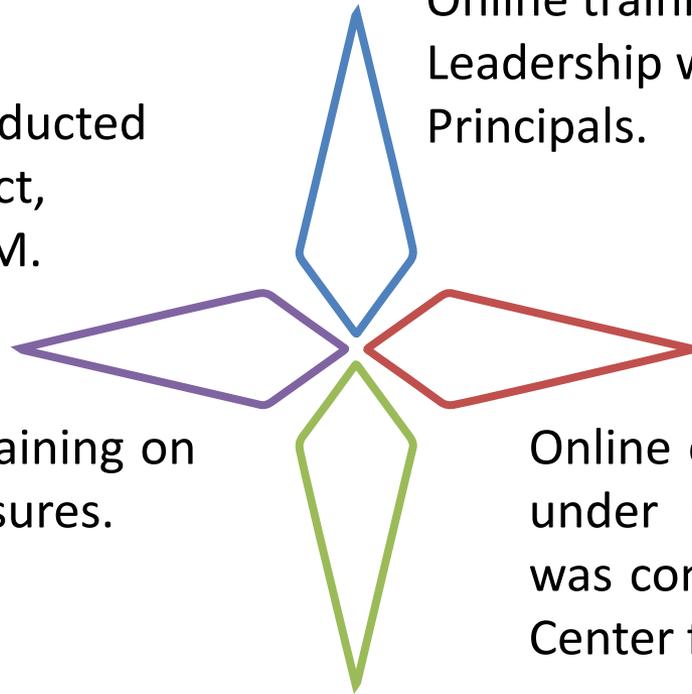
Trainings on Administrative Efficiency & Leadership:

Online trainings were conducted on Right to Information Act, Procurement through GeM.

Officers were provided training on Preventive Vigilance measures.

Online training on Pedagogical Leadership was conducted for all the Principals.

Online capacity building workshop under Green School Programme was conducted in association with Center for Science & Environment.



E-Content development by NVS Teachers

NVS teachers have created **1755** videos, **1394** PPTs and **6966** competency based questions for Classes VI to XII in the same taxonomy of DIKSHA portal.



□ Many teachers across the country contributed for Swayamprabha Channel of NIOS & e-content development for PM e-Vidya programme.

The e-content created by NVS teachers was shared with DIKSHA team and NCERT for curation and selection for uploading on DIKSHA Portal out of which **386** Videos have been uploaded on DIKSHA portal.

To make the developed learning material handy, Class-wise Handouts of e-Content developed by NVS teachers as well as links of DIKSHA, MANODARPAN, PRAGYATA Guidelines, e-Textbooks, Virtual Labs, Sample Papers etc were prepared & shared.

NVS Online Grievance Redressal Mechanism



Earlier student lodges their complaints/ grievances through their teachers/parents/drop them in a Complaint box named “Man ki Baat”.

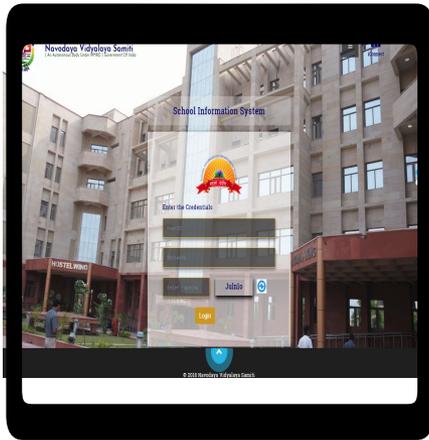
NVS Grievance Redressal Mechanism” has been launched w.e.f. 20.09.2021. JNV students/parents may lodge their grievance for quick disposal by the Principal/RO Concerned. Guidelines,

With the development of Online Grievance, there is an additional facility with the Principal to forward the grievance to the next Competent Authority in one click to redress the grievance

With the development of the Online Grievance System, the authenticity of the grievances

Dashboard for Students

Includes all the comprehensive overview of data from different sources accessible to Students and Students' Parent



01

Student Personal Profile (Name, DoB, Family Details, Contact Details etc)

02

Complete Health Record

03

Record of Participation in Different Activities and Competition

04

Facility to Lodge Grievance and Pay Vidyalaya Vikas Nidhi

Student Information System



Increased transparency

Unified, Dynamically Integrated, maintained view of NVS data

Improved & Controlled information dissemination

Increased outreach

Increased inter centre collaboration

Increased visibility of student and institution achievements

Navigation ease for end users leading to more information access



Way Forward

Implementation of NVSK

All Regular Classroom into Smart Classroom

Centralized Biometric Attendance System

Implementation of Personalized Learning Labs

Implementation of Language Labs



THANK YOU

