

Journey of a National ICT Awardee

Manodhar Kumar Nainwal, Uttarakhand

(National ICT Award-2014)

Birth - 10 September 1969
Place of Birth - Village- Nail (Aswalsyun)
District- Garhwal, U.P.
Father's Name - Devi Prasad
Mother's Name - Sushila Devi
Spouse Name - Amita Nainwal
Children - 1 Son & 1 Daughter

Currently Working as-

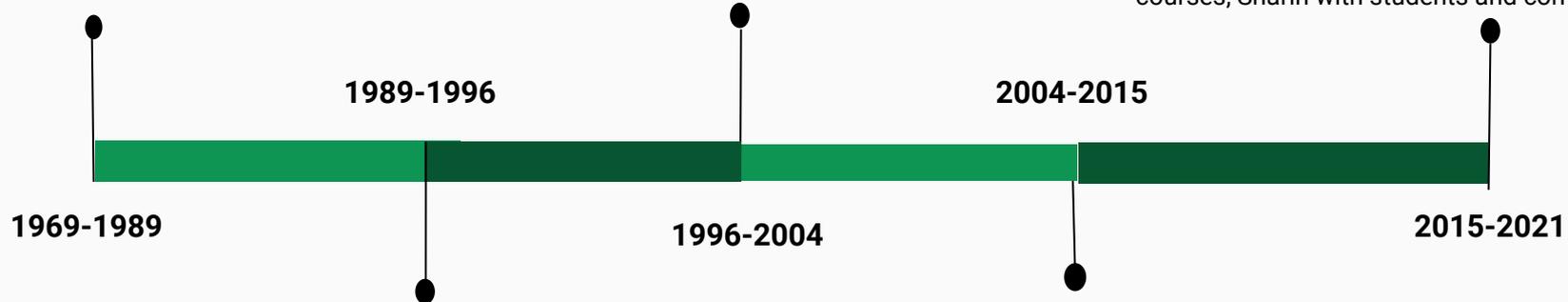
Head Master
Government Primary School Malaun,
Block- Kaljikhhal, Distt.- Pauri,
Uttarakhand



Learning Intervals

Student life & Passion for technology

Primary —> Higher Education
Passion for Technology



Introduction to ICT & struggle for career

PGDCA, Job as Computer Operator/Programmer, Competitive exams and failures, Working with various companies

As an entrepreneur

Started a garment unit at Dehradun, Started a construction firm as an govt. Contractor in PWD

As an Ambassador of ICT - Learning & Sharing

Continuously learning with NCERT & self learning
Sharing my learning with fellow teachers, teachers groups, Teacher training and online courses, Sharin with students and community

A Primary Teacher to a National ICT Awardee

Started job in 2005, Book writing 2006-09
Constituted 1st VTF Srijan Samuh 2008,
Established 1st ICT/MM Classroom with community support, NICT Award 2014

My Student life & Passion for technology (1969-1989)

Primary education- Studied in my village school (Tharapdhar) - No reach to extra curricular books, used to read old arms manuals and history books of my grandfather who was a soldier of second world war.

Secondary Education- went to my sisters village to study science (GIC Kot) as there was no science college in my area. Used to learn machines and electrical systems in my Brother-in-law's flour mill. Topped in High School & Intermediate with a rare First Division at that time.

Higher Education- Studied BSc & BEd from HNBGU Srinagar, Stayed in hostels and used to read science magazines & learnt about electronics from my brother, Learnt about computer & Internet for first time. (Internet a Highway of Info.)

Introduction to ICT & struggle for career

In 1989 I left my home to learn computers, went to Bombay for the first time and started learning computers from Datapro Institute Ghatkopar. Left my ICWAI admission to learn computers. Completed my PG diploma in computer management in 1990 and started work as an Computer operator and then junior programmer. Worked with i386 and i486 machines that time in DOS environment. The machines use 256 and 512 MB ram and Floppy diskettes as an external storage device. The programmes were written in COBOL and Dbase III+. I left Bombay and computers in 1992 to take care of my mother, she was ill. Went back in 1994 but technology has a big leap in the meantime.



Certificate of Completion

MICROSOFT – AUTHORIZED TRAINING CENTRE

This certificate awarded to

Manodhar Nainwal

for successful completion of the course

Cobol Programming Language given on 13-03-1990



Microsoft[®]
16011 NE 36th Way
Redmond Washington U.S.A.

Registrar: 

Place : *Bombay*

datapro
INFORMATION TECHNOLOGY

Head Office: 101, Datapro House,
Off Turner Road, Bandra (West),
Bombay-400 050. (India)

Microsoft certification

I learned COBOL as a programming language and also started writing programmes in Dbase III+, I was working in DOS operating system and even today if any time I have difficulties with my computer I use DOS to short the problem.

He loved soccer but feared he had no way to talk to a coach or teammates.

Competitive Exams and failures

In the meantime I attempted many competitive examination as following-

S.No.	Name of Examination	No. of Attempts	Written	Interview
1.	IIT Entrance Exam	1	Failed	—
2.	Combined Defence Services Exam	5	Passed	Failed
3.	Tata Consultancy Services Exam	1	Passed	Failed
4.	Merchant Navy Exam	1	Passed	Failed
5.	Astt.Commandant CPO's Exam	1	Passed	Failed in Medical due to short height by 1Cm.

Worked in Private sector

In the meantime I worked with many private sector companies as following-

S.No.	Name of Company	Duration
1.	Hard metal tools & Dyes, Thane	1989-90
2.	Birdy Fashions Pvt Ltd, Sewri, Bombay	1990-91
3.	BPL Ltd	1993-94
4.	Maxworth Orchards Ltd	1994-95
5.	Everest Paper Products Pvt Limited	1995-96

Took part in Uttarakhand Movement during 1992-1994 as an student leader. After Muzaffarnagar incident on 2 September 1992, agitation and anger raised like a Jungle fire in Uttarakhand. I was hit by a police bullet in Dugadda while leading a group of agitators. I have a very narrow escape as the Flag pole in between me and path of the bullet diverted the bullet which was aiming my stomach. Bullet hit my left hand Middle finger, and I received minor injury. I got first-aid in nearby Govt. Hospital and returned home.

As an entrepreneur

Started a readymade Garments (Menswear) unit at Dehradun in March 1997 with TRENDZ trademark.

That was the time the movement for separate hill state of Uttarakhand suddenly got momentum and there was a huge business loss to all the businesses other than essential commodities. My business could not pick up and I suffered a huge loss. Lost almost all my capital and found myself empty handed. I was married and have a son that time (Year 1999)

Again I Motivated myself and Started a construction firm. I registered myself as an government contractor in PWD UP(That time in 1999). The state of Uttarakhand came into existence in November 2000.

I continued as an Govt. Contractor till 2004, when I was called for Special BTC course (to be appointed as a Primary Teacher) on the Basis of my BEd. My Family and My love for education forced me to leave my well settled construction business to become a teacher.

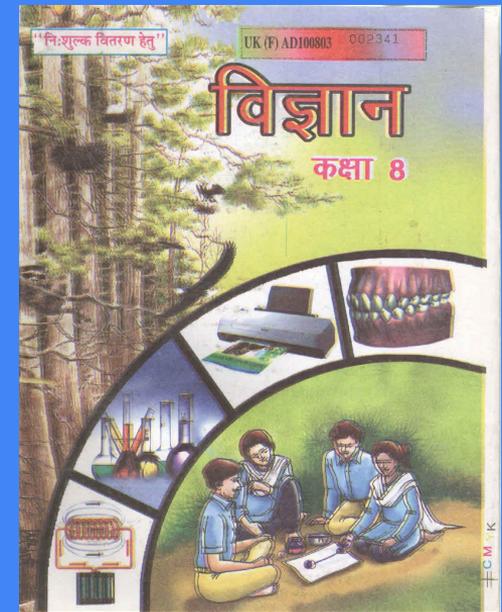
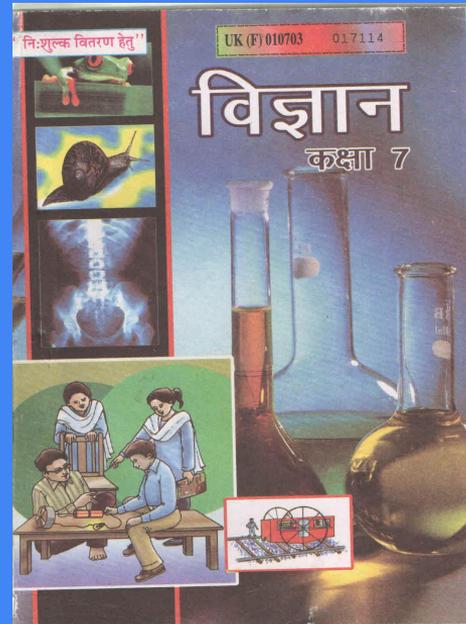
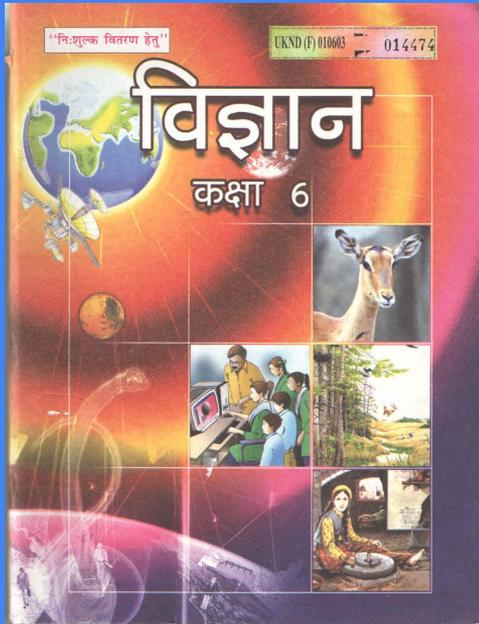
Technological changes In the meantime

1. I was totally out of touch from education, everyday changing computer technology and information technology between 1992-2004.
2. The Television as an Audio-visual media of mass communication has reached the every common home of India around nineties.
3. Mobile Phone as an communication media has reached to common men's hand between 2000-2005.
4. Computer technology has a really big leap and the computers has become the PC's and started reaching to common men's study room.

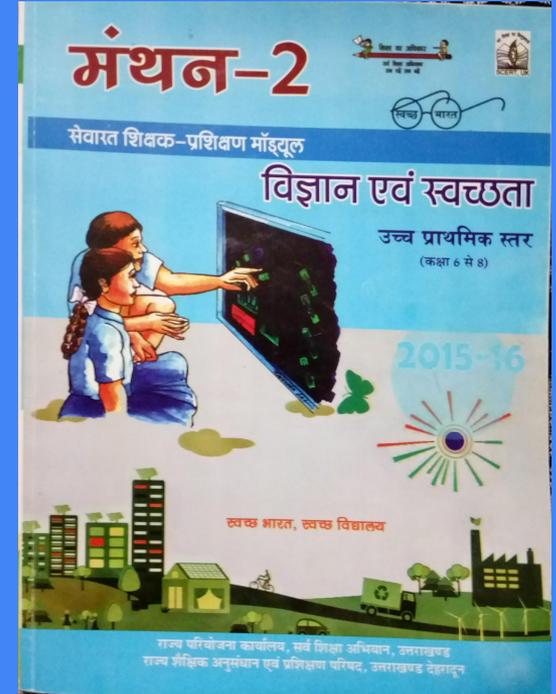
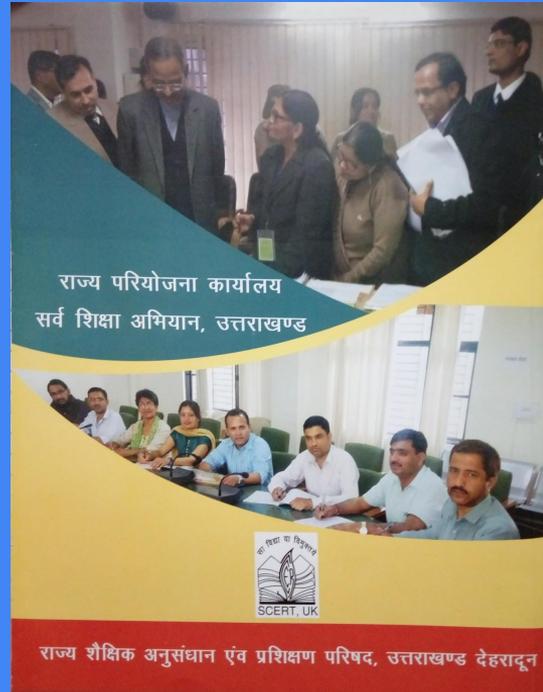
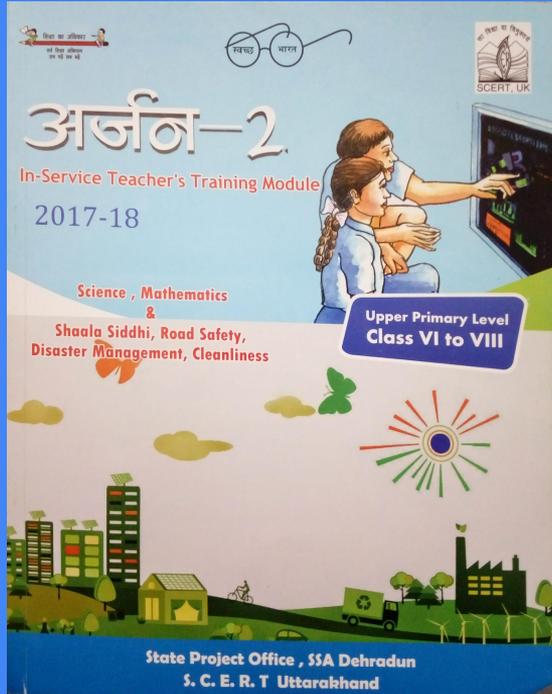
A Primary Teacher to a National ICT Awardee

1. Completed 6 month Special BTC Course in DIET pauri in 2004.
2. Joined as an Assistant Teacher (Primary) on 21 April 2005 at GPS Queeth Karnadhar, Block Kaljikhhal, District- Pauri Garhwal. Worked there for 1 year.
3. Transferred to GPS Kaljikhhal on 17 April 2006. Worked there for 15 Years & 6 Months.
4. Promoted as Head Master to GPS Malaun on 09 November 2021.

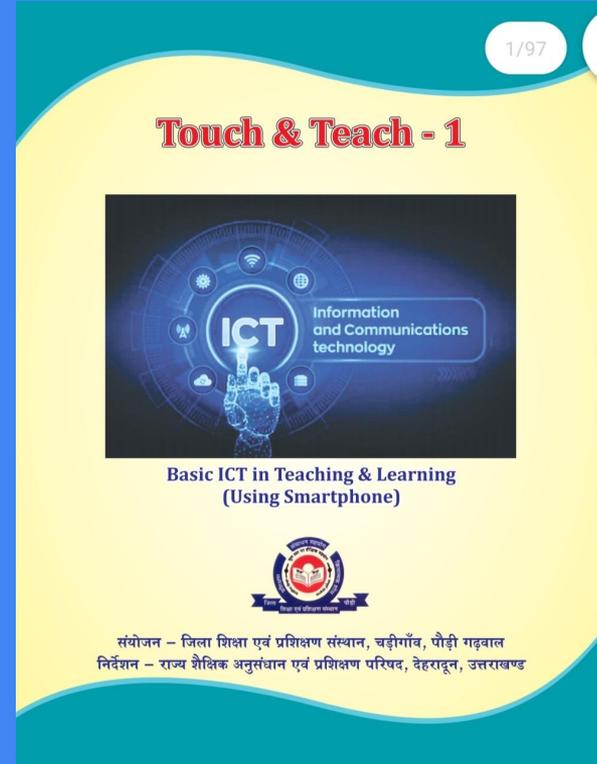
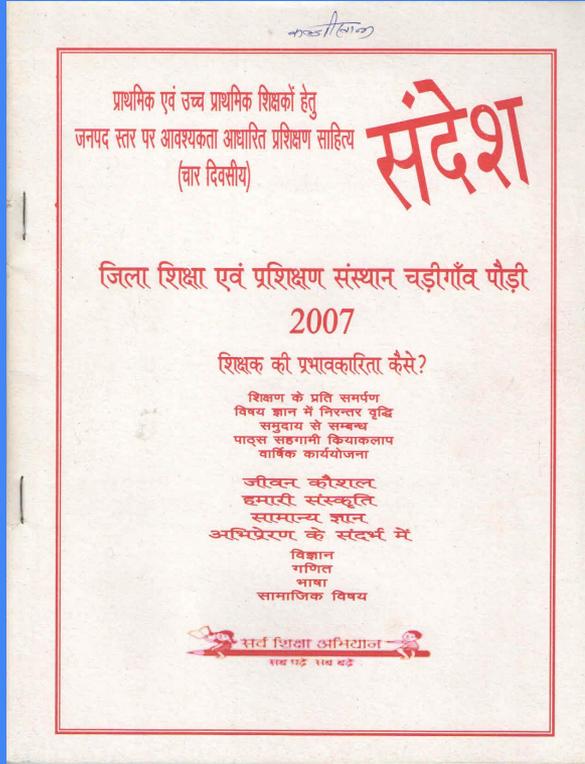
Worked with SCERT Uttarakhand as a writer and editor for New Text books (NCF 2005 Framework) Subject Science, Class VI, VII, VIII from 2006-2009



Worked with SCERT Uttarakhand as a writer and editor for 2 teacher Teacher Training Modules between 20016-2018



Worked with DIET Pauri as a writer and editor for 2 teacher Teacher Training Modules in 2007 & 2021

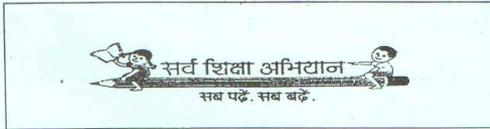
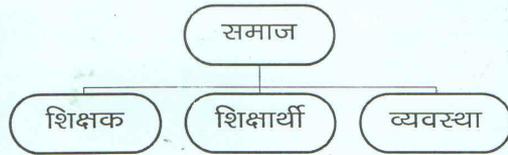


Started 1st Volunteer Teachers Forum in Uttarakhand in 2008

सृजन

राष्ट्रीय पाठ्यचर्या-2005 की सिफारिशों के आलोक में विकसित

प्रोजेक्ट-कार्य आधारित एक बालकेन्द्रित शैक्षिक कार्यक्रम



जिला परियोजना कार्यालय सर्व शिक्षा अभियान पौड़ी (गढ़वाल)

Started First VTF (As SRIJAN Samuh) in Uttarakhand in 2008 with 10 teachers of different Government primary schools.

Started project based learning programme 'SRIJAN' in 2 CRC's (Nagar & Mirchoda) of block kaljikhhal.

The Programmes are as follows-

- 1- making of Bal vatika
2. Development of life skills
3. Vidyalaya swachhata
4. Development of artistic interests
5. School management
6. Project work

The programmes added later were-

7. ICT Classrooms in School (4 Schools covered so far)
8. Understanding Folk culture of uttarakhand
9. Preparation for entrance exams of JNV, RGNV & Himjyoti Schools for class 5th students. (Getting 2-3 children selected to above schools every year since 2011 onwards)

My Project Folk Songs and Folk Dances of Uttarakhand

Live Project

Folk Songs and Folk Dances of Uttarakhand
उत्तराखण्ड के लोकगीत एवं लोकनृत्य



MANODHAR KUMAR NAINWAL
(Assistant Teacher)
Govt. Primary School Kaljikkhal
Block- Kaljikkhal, District- Pauri(Garhwal)
State- Uttarakhand



Place – Kaljikkhal Year – 2013-14
Period – September-December 2013

1. Aana - Class 5 th	5. Saloni - Class 5 th
2. Priya - Class 5 th	6. Kiran - Class 4 th
3. Taniya - Class 5 th	7. Aarushi - Class 4 th
4. Shaily - Class 5 th	8. Garima - Class 4 th

As I told earlier that we were running the SRIJAN programmes in our schools since 2008-09, we were doing project work every year with our students. First of all I decided to make my students make capable of using computer and devices, so we did run a project 'computer literacy' for my student. For year 2013, I selected the project 'Folk songs and Folk dances of Uttarakhand' for my students. Although this was a expensive and difficult project but my students, their parents, community, local resource persons and fellow teachers supported me a lot. And we completed this 6 month long project very successfully.

I always used to do full documentation of my project work. I shared my project document with one of my friend Mr. Supriya Bahukhandi. He appreciated it. Same year in 2013 he was awarded National ICT award for the year 2012. After being awarded he persuaded me to send my project to State ICT cell for National ICT award. I was not very much convinced but I send the project. Although I have very humiliating experiences at state level, but my project got selected for CIET and after Presentation at CIET, my project was selected for National ICT award-2014.

Project 'Folk song and folk dances of uttarakhand' is an effort towards saving our Tradition and folk culture, which was losing its identity due to blind imitation of western culture by our youth. This project is basically supported by our teachers, community and intelligentsia. Many folk artists and resource persons have come forward to help this project. We are trying to infuse our traditional folk culture in our young students. This practice was started by us almost 8 years ago, and is continuously being practiced in our school since then, many schools are following this practice. The students passing out from our primary schools are carrying this tradition to secondary and higher schools. I can see a clear change in our society and school environment after this project. Now our young kids and students are very eager to learn the folk songs and folk dances. They are performing this art at our Bal Melas, Khel Mahakumbh, foundation day event, sports and cultural events of schools. The society is also following this practice and 'Mahila Samuh' of village women has adopted the practice. And they also have started performing folk culture in marriages, government functions and various programmes. So it brought a widespread awareness in our society. I first introduced folk culture in education and used ICT to practice and popularise it. I saw a great change in students' academic performance also. The change in personality, communication and presentation skills of students is extraordinary. So this project not only helped me in teaching my students but also helped us in bringing a positive change in our society.



Link to workshop Video - https://youtu.be/0DCxJZ_5P_E

Link to Student performance video- <https://drive.google.com/file/d/1wDCihE4w6UigMJ3YQQnI8LKIIWTuTJOC/view?usp=sharing>



My Project Folk Songs and Folk Dances of Uttarakhand



My Project Computer literacy

Awarded with National ICT Award on 5 Sept.2015 By Hon.President Shri Pranob Mukharji



Programme on Doordarshan

Doordarshan Kendra
Delhi invited me to Join
the **Zenext** educational
programme broadcasted
by DD News channel on
05 September 2015.



Link to play Video -
https://drive.google.com/file/d/1W0m-gN_Cbew8yErMiERjJo0QnbpMj5Iv/view?usp=sharing



Suddenly I found myself in the limelight of media



TEACHERS DAY

Anupam Trivedi
www.anupamtrivedi.com

DEHRADUN: Ten-year-old Kumari Anu's fingers dance on her laptop like those of an IT professional. Thanks to her tech-savvy teacher Manohar Nainwal, who will be awarded by the President on Saturday.

Nainwal, who teaches at Kishna Primary School (KPS) in Pauri Garhwal district of Uttarakhand, will be conferred the national Information and Communication Technology award for introducing multimedia tools in teaching.

There are 100 students like Anu in his school who are well versed in computer functions, multimedia applications and quick fix troubleshooting. In fact, every body gives credit to Nainwal for bringing multimedia education under Information and Communication Technology (ICT) project.

But, his associates attribute his achievements to his unending passion for information technology which helps him impart skills to the students effectively.

Nainwal, a son of a farmer, earned computers in 1989 from Mumbai five years after the computer technology arrived in India. He said despite limited financial resources, he moved to Mumbai after completing Bachelor in Education (BEd) programme to gain the skills he wanted.

He did job to pay the fees for his computer diploma course. "Teaching is the key and I had worked in it as a teacher before now I've replicated the same with my students," he said.

Finally in 2005, he landed up

Manohar Nainwal
The salary that I earned from a job was invested in learning computer diploma course. Technology is the key and I had learned this many years ago. Now I replicate the same with my students

Naha Paul
www.nahapaul.com

DEHRADUN: A teacher becomes a guru when he inspires students to carry forward a creative idea and Mohan Chandra Pantaha of Uttarakhand can be called one.

Pantaha, who is posted at a government inter college in Pithoragarh's nondescript hamlet Devlhal, has become popular in nearby schools for making his students come out with peer-written (wall magazine, Deewan Parikh) as a two-page, handwritten creative characters by the students. The magazine is edited by students who collect, shortlist and write-up, design, jokes, poems, puzzles and news from their schoolmates, put them on two charts and hang them on the wall. The magazine remains on display for weeks.

Pantaha, a social studies



सरकारी स्कूल में मनोहर की मल्टीमीडिया कक्षा 5 लोढ़ा समिति की सिफारिशों असंवैधानिक : काटजू 13

www.jagran.com

उत्तराखण्ड • दिल्ली • उत्तर प्रदेश • मध्य प्रदेश • हरियाणा • बिहार • झारखण्ड • पंजाब • जम्मू-कश्मीर • हिमाचल प्रदेश • पश्चिम बंगाल से प्रकाशित

कोटद्वार 8 सितम्बर 2015

डिजिटल इंडिया के सपने को साकार कर रहा एक शिक्षक

शिक्षक जितन देवा इतिहास सार्वभौमिक द्वारा राष्ट्रीय आईटीसी पुरस्कार से हुए सम्मानित मल्टीमीडिया प्रौद्योगिकी उपकरणों से सुसज्जित एक विद्यालय मिले जोशी कल्याणल

दैनिक जयन्त

पौड़ी

मिनॉटा का भी नाम जुड़ गया है। जन्म दिवस प्रबन्धक विद्यालय का का भी सूचना एमएम प्रौद्योगिकी से जोड़ा जायेगा। उन्होंने बताया कि अभी उनके डिजिटल शिक्षण सामग्री के अभाव का समापन करना पड़ रहा जिसके सफेदपत्र निर्माण के लिए पर काम चल रहा है और इसमें शासन का सहयोग भी अपेक्षित है जिसमें एक उदाहरण को देश के समस्त छात्र जा सकें। उन्होंने बताया वे निजी श्रोत्रो द्रव्य और भवनजि जुटने का प्रयास कर रहे जिसमें और उपकरण को खरीदें कि जा सकें जैसे अभी भारतीय स्टेट बैंक से जान चल रही है। संकुल प्रथम दिवस रोजाना रोजाना न बताया कि मनोहर नेवाल ने उत्तराखण्ड के समस्त शिक्षकों का मन बढ़ाया है और वह हमारे दिलों में गौरव का बीत है। उन्होंने बताया कि डिजिटल इंडिया के क्षेत्र में किये गये सफलता प्रथम द्रोहर कर रहे जायेगे। उन्होंने ह्वं नयाय की प्रशंसक के अलग-अलग एक और प्रारम्भिक विद्यालय का का कि शिक्षक लक्ष्मी मेठानी को भी मुख्यमंत्री द्रव्य मलयाली पुरस्कार प्रदान हुआ। राजा विद्यालय रोडखाल के शिक्षक संजय शर्मा, विजिन शेट, जखनर ने भी वे मनोहर नेवाल को सम्मान प्रदान होने पर ह्वं जताया।

संक्षेप में: मनोहर नेवाल ने उत्तराखण्ड के एक सरकारी स्कूल में मल्टीमीडिया कक्षा शुरू की है, जिससे छात्रों को डिजिटल शिक्षण सामग्री का उपयोग करने में मदद मिलेगी।

प्रमुख बिंदु:

- मनोहर नेवाल, उत्तराखण्ड के एक शिक्षक हैं, जिन्होंने अपने स्कूल में मल्टीमीडिया कक्षा शुरू की है।
- इस कक्षा में छात्रों को डिजिटल शिक्षण सामग्री का उपयोग करने में मदद मिलेगी।
- नेवाल ने बताया कि यह कक्षा शुरू करने में शासन का सहयोग अपेक्षित है।
- उन्होंने कहा कि यह कक्षा शुरू करने से पहले ही शासन का सहयोग अपेक्षित है।
- नेवाल ने बताया कि यह कक्षा शुरू करने से पहले ही शासन का सहयोग अपेक्षित है।

सरकारी स्कूलों के लिए... SHARE

EXCLUSIVE NEWS

सरकारी स्कूलों के लिए मसीहा बन गए मनोहर

By Panjaj Bhatt

Posted on August 8, 2016

247 SHARES

- मनोहर नेवाल से सीखने लगे हैं आस-पास के कई शिक्षक-शिक्षिकाएं
- पौड़ी जिले के कल्लुखाल ब्लाक का है यह स्मार्ट स्कूल
- मल्टीमीडिया के जरिए पढ़ते हैं इस स्मार्ट स्कूल के छात्र-छात्राएं
- आई-फाई पब्लिक स्कूल भी फेल हैं मनोहर के सरकारी स्कूल के सामने

As an Ambassador of ICT - Learning & Sharing

- My actual Journey of learning ICT started after 05 September 2015.
- CIET (NCERT) started grooming us as an ICT resource person.
- CIET called us every year for a 4-5 days Orientation workshop at different centres of NCERT.
- I visited RIE Ajmer, RIE Bhopal and NCERT New delhi for these workshops and learnt a lot about creating, manipulating/handling, and sharing data.
- I learnt latest ICT tools from CIET Resource persons.
- Prof. A.P. Behra and Astd. Prof. Angel Rathnabai from CIET inspired me to use Open source softwares. I Instantly removed Windows OS from my system and Installed UBUNTU in my laptop. I started learning it from my own. Today I am fully working with Ubuntu and all the open source applications.
- The ICT tools I learnt and using to teach my students are -

Audacity, kahoot, Openshot video editor, Libre office, G-compris, Geogebra,
Kazam, Prezi, pySiogame, Scratch, Stop Motion Movie
MindMap Infographics H5P Moodle(LMS) Geogebra

Almost all the google applications like-

Gmail, Google docs, Google Sheets, Google Drawings, Google Drive,
Google Slides, Google Keep, Google Classroom etc

learning with ICT

S.No.	Name of Online Course	Institution	Duration
1	Introduction to Modern application development	NPTEL- Hasura	8 Week
2	SWP-Advocating social justice and change	edX-University of Michigan	8 Week
3	Induction-1, ICT in education-Basic	CIET-NCERT	120 hrs
4	Designing ICT-Pedagogy Intervention for teaching learning and assessment	CIET-NCERT	—
5	Geogebra 5.05	IIT Mumbai	4 week
6	Understanding OER	Commonwealth of learning	2 Week
7	The Science of Learning-What Teacher Should Know	edX-Columbia University	8 Week
8	Becoming a More Equitable educator- Mindset and Practices	edX-MITx	

Creating e-content



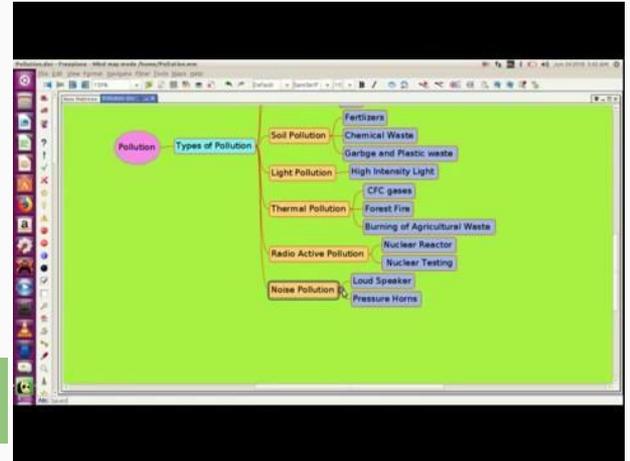
Link for H5P interactive video content-
<https://drive.google.com/file/d/1B1Ex-AKZynj76tkdA03wtG633NU4WkWU/view?usp=sharing>

Digital Story
(Multimedia)

Stop Motion
movie

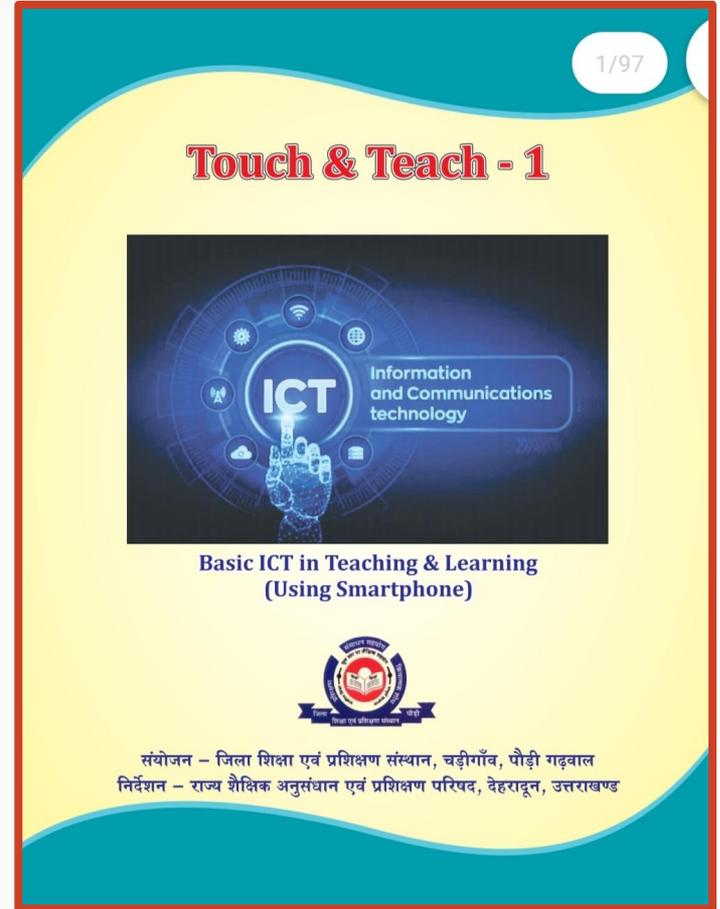


Scratch
Activity



Mindmap

1. Sharing e-content with students.
2. Sharing e-content with fellow teachers and teacher forums.
3. Introducing ICT in State teacher training programmes with the help of SCERT Uttarakhand.
4. Running online ICT course for teachers of my District with the help of DIET Pauri -
3 month online **Basic ICT in Teaching and Learning (Using Smartphone)** is being run. The course booklet is named as **Touch & Teach (1)**. At present a resource group of 120 Teachers is being trained by me. who will further train all the govt. School teachers of the district in ICT.



Challenges

1. I belong to a difficult hilly area of mid-himalayas where life itself is a big challenge every time. Natural calamities and disasters are part of our day to day life. These calamities hinder Information and communication network in our area very oftenly.
2. Due to adverse geological conditions and scattered population, the Information and communication services are always poor in our area. In fact we are working with 2G speed on a 4G network.
3. I am a Primary school teacher and my students are always less than 10 years of age. So it becomes difficult for me to exercise a greater ICT with them. So challenges are less to learn more.
4. Being a elementary school teacher in a rural school, I have very few students in our school and infrastructure is very poor. So all the efforts of ICT we do, we do it on our own expanse. Government support is almost null till this date.
5. The condition for online teaching to students are never favourable. The parents don't have smartphone, tablets or PC's. Even the TV sets are not available at their homes. They can't afford it. Villages are going barren by migration of peoples. Only a few poor families are staying in villages, so the development of infrastructure is not a priority of Local government. And COVID like pandemics are posing a great threat to education in conditions like ours.

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