

# My ICT journey.....



**Pratima Nayak, PGT(Mathematics),  
Kendriya Vidyalaya, Fort William, Kolkata**

Kendriya  
Vidyalaya, Fort  
William, Kolkata.



I joined as  
Mathematics  
Teacher



**Year 1982**



# Year 1982, I saw computers for first time

In 1982, BBC gifted 3 BBC Micro Computers to Kendriya Vidyalaya, Fort William. Only one teacher PGT (Maths) was trained to use. It was working on Basic language.



I was very much attracted to the magic boxes

Year 1986, I saw a computer training center

I took admission in Birla Industrial Technological Museum to learn Basic language .It was free for teachers. But I have to attend after school hours and my house was far from it.



Year 1986, I learnt basic language .

My first Computer  
Training was Basic  
Language.

One has to type 86 lines  
of syntax to produce  
National Anthem of  
India.

I did it....



Year 1986 - 88, I tried again .

Though the teacher in charge was reluctant to allow me to use the computers , I was practicing what I learnt from the training. It gave me immense pleasure.



If you are determined to learn, no one can stop you.

Year 1989-90 ,

I learnt Fortran and C programming

I completed MSc in  
Mathematics by distant  
mode from Utkal  
University

I learnt two more  
computer languages  
Fortran Programming  
and C Programming.

But it didn't help in my  
teaching learning.



15, August 1997, Internet came to India

Year 1997, I used Pentium III computers

Computer Science was introduced as elective subject in Classes 11 & 12 for students of K,V Fort William.

It was the first school in Kolkata Region to introduce Computer Science as elective subjects.



# Year 1997, I became computer in charge

Three Pentium III computers along with a printer were bought for 18 elective students. I was made computer lab in charge .

I could not help myself other than opening and shutting down.

The students were learning C++.

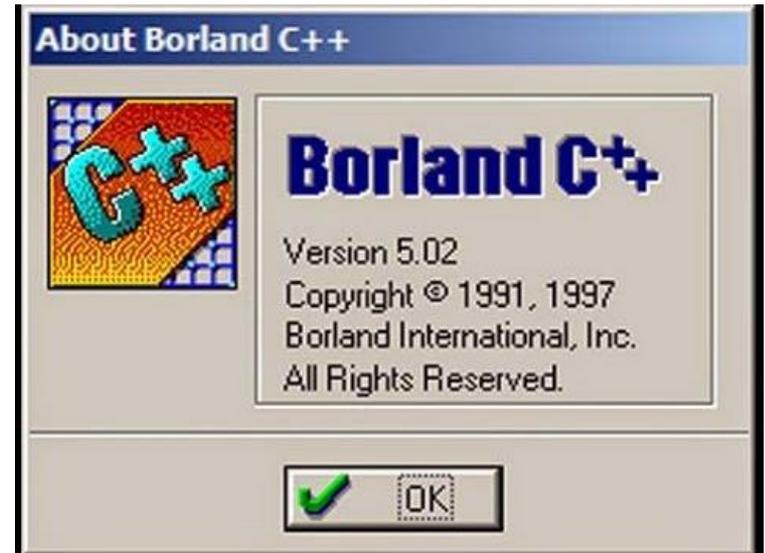


# Year 1997, I became computer in charge

I acted as care taker of computers, Printers, and CDs .

My work was to support contractual computer teacher and maintenance persons.

I was learning very little as I didn't have sufficient time at school.\*



## Year 1998, I purchased a computer myself

I bought a computer myself. At home I tried to learn myself. But the knowledge was not sufficient to manage a computer lab . Internet had very limited resource those days. Internet was very slow .



Never give up and think that you are through a chance to begin brand new.

# Year 1999: "Teach to the future" by Intel

Intel set a computer Lab in our school. It was the first Kendriya Vidyalaya in whole eastern Region.

Intel provided 16 computers with internet server and network and a Printer. 60 teachers of my school were trained after school hours.



# Year 1999, I became a computer literate in true sense

I learnt

Power point presentation

MS word

Ms Excel

Emailing

Accessing Internet

Uploading/Downloading

Burning CDs

Using Projector

Recording Audio

MS Publisher

Copy right

And many more things.



# Year 2000, I became the Master trainer



My responsibilities were increased. I had to manage two computer labs, time table for students' ICT classes, ICT use by office staffs. Number of Computers, Projectors, Printers were increasing from time to time. I had to coordinate between Intel and staffs of the school.

# Year 1999-2000, I completed PGDCA

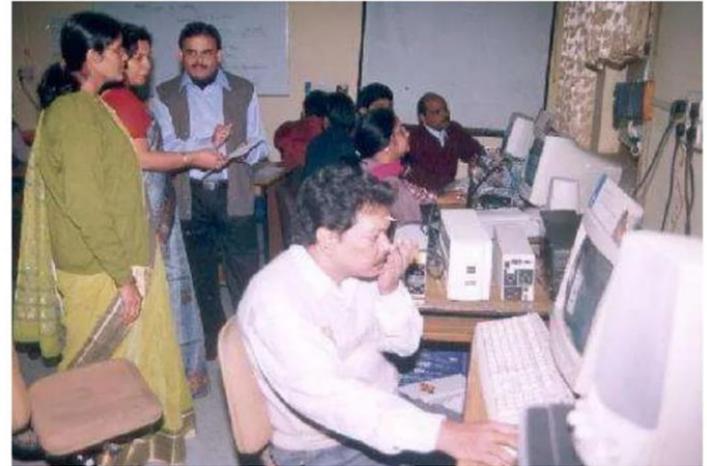
Still I was facing challenges of trouble shooting, networking , virus problems, Internet connection problem and about other computer accessories. So I got admitted and completed Post Graduate Diploma in Computer Applications under Pondicherry University to update myself about computers. I became little bit confident now .



# Year 2000-2005

I became master Trainer in all the in service courses held for all category of Kendriya Vidyalaya Teachers.

I trained nearly 1000 teachers. I trained Principals of Kendriya Vidyalayas of Kolkata Region also. I trained to use interactive boards and new ICT tools from time to time.



# Year 2000-2005

## Improvement of my ICT skills

- Accessing information from **Internet**
- Connecting through Skypes
- Opening email account for school
- Interacting through E mail

I learnt **MS Excel** . I applied my skills to prepare

- Mark sheet and Progress Report
- Salary sheets
- Result Analysis of school
- Annual Report of school
- Pay fixation of staff
- Making database for staffs \*

# Year 2000-2005

## Improvement of my ICT skills

I learnt to use **Mathematical Equation**

It helped me to present my lessons

I was involved consistently in

- development of study materials for Mathematics for Class 12 as well as 10 .
- Question Paper
- Moderation of Question Paper

For Kolkata Region

**Guiding Hindi language teachers to use Hindi Font**

# Year 2000-2008 Challenges I faced

- Number of computers, Printers and interactive Board were added to ICT infrastructure of the school from time to time.
- Both students and teachers were eager to sit at computers for internet .
- Neither permanent Computer teacher nor laboratory attendant was there in school.
- Contractual teachers were for yearly basis.
- Trouble shooting was a big issue.
- Discipline was also issue . Students were locking computers with passwords
- Accessing Teachers' files
- Accessing in appropriate website

# Year 2004: ICT Training to neighboring School

Under **smart school** Programme , there was a proposal from KVS for Computer Literacy Programme for neighbouring school.100 students and 5 teachers of each of 3 schools were trained on our Vidyalaya, I was the coordinator. The training was after the school hours.\*



लाजपत हिन्दी हाई स्कूल

Phone : 2449 2806

**LAJPAT HINDI HIGH SCHOOL**

(Higher Secondary)

Established in the August Memory of Lala Lajpat Rai  
Inaugurated by Dr. Rajendra Prasad, the first President of India in 1952  
Recognised by West Bengal Board of Secondary Education &  
West Bengal Council of Higher Secondary Education  
Aided by Government of West Bengal

LAJPAT BHAWAN

24/1/1, MANSATALA LANE, KIDDERPORE, KOLKATA - 700 023

M. P. Index No : A3-059

H. S. Code No. : 01138

Dated: 04.07.2009

## Certificate of Appreciation

We appreciate Mrs. Pratima Nayak PGT (Maths), K.V. Fort William, Kolkata for valuable services rendered towards our school as the co-ordinator of the Computer Literacy Programme for neighbouring Schools in the Academic Year 2003-2004.

I wish her all success in life.



*Pratima Nayak*  
4/7/09  
Headmaster

Lajpat Hindi High School (H.S.)  
24/1/1, Mansatala Lane, KOL-23

# Year 2005 : Think Quest on line Project

Oracle Education Foundation introduced **Project based Teaching**. I was one among the first 100 teachers of India to take the training . I enjoyed the online training as I found it to be very useful in teaching Mathematics.



## Year 2005 to 2011: Master Trainer for Think Quest

I learnt how to integrate multidisciplinary projects in lessons.

I trained my students to use different ICT tools needed for the projects.

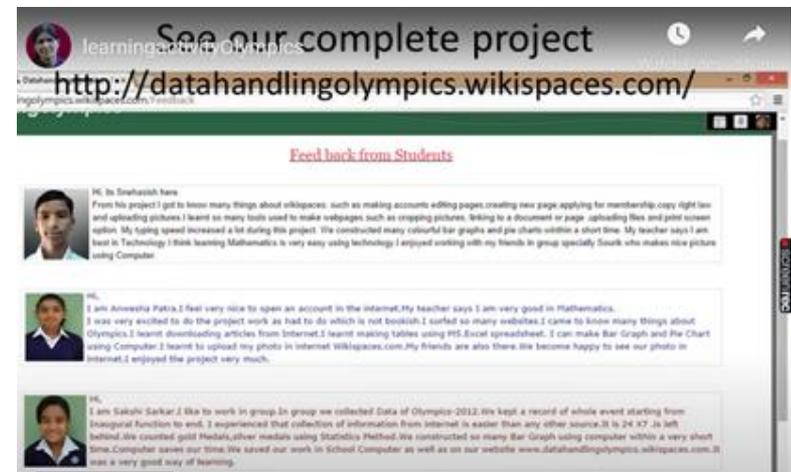
Students were very interested to participate in the projects. I trained all the teachers of KVS, Kolkata Region to integrate projects in their subjects.



# Year 2005 to 2011:

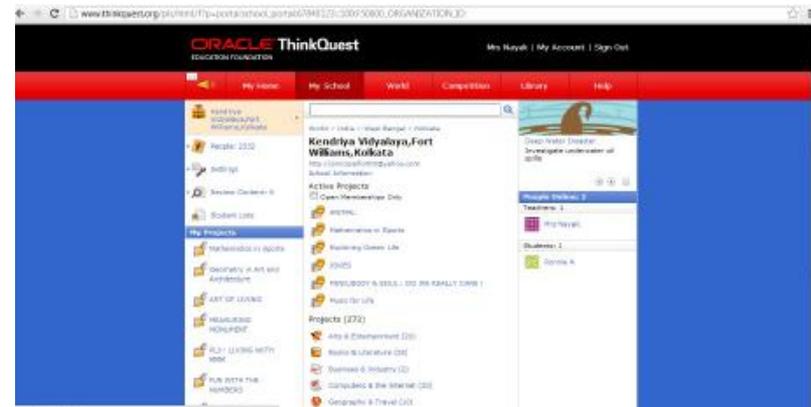
## Impact of ICT(PBL) in my Mathematics teaching

1. My students were motivated to study Mathematics
2. They were not afraid of Mathematics
3. They enjoyed the subject
4. Students become more responsible for learning
5. I received more love and respect from students.
6. Students learnt to evaluate their work.
7. They learnt to give feedback



# Year 2005 to 2011: Students went global

Number of students participated in National and International online project competition on the platform of **Think Quest** and also awarded prizes and certificates.



**Year 2008:**

**KV Fort William was awarded as best school for ICT use in State by Ministry of Information and Broad casting**



**Year 2009**

I was appreciated by  
KVS National Award



**There is no limit to the goals you can attain**

# Year 2010 : I completed IDGC online & off line mode

I completed Post Graduate Diploma in Guidance and Counselling from RIE, Bhubaneswar, NCERT which was conducted both **online** and off line mode.

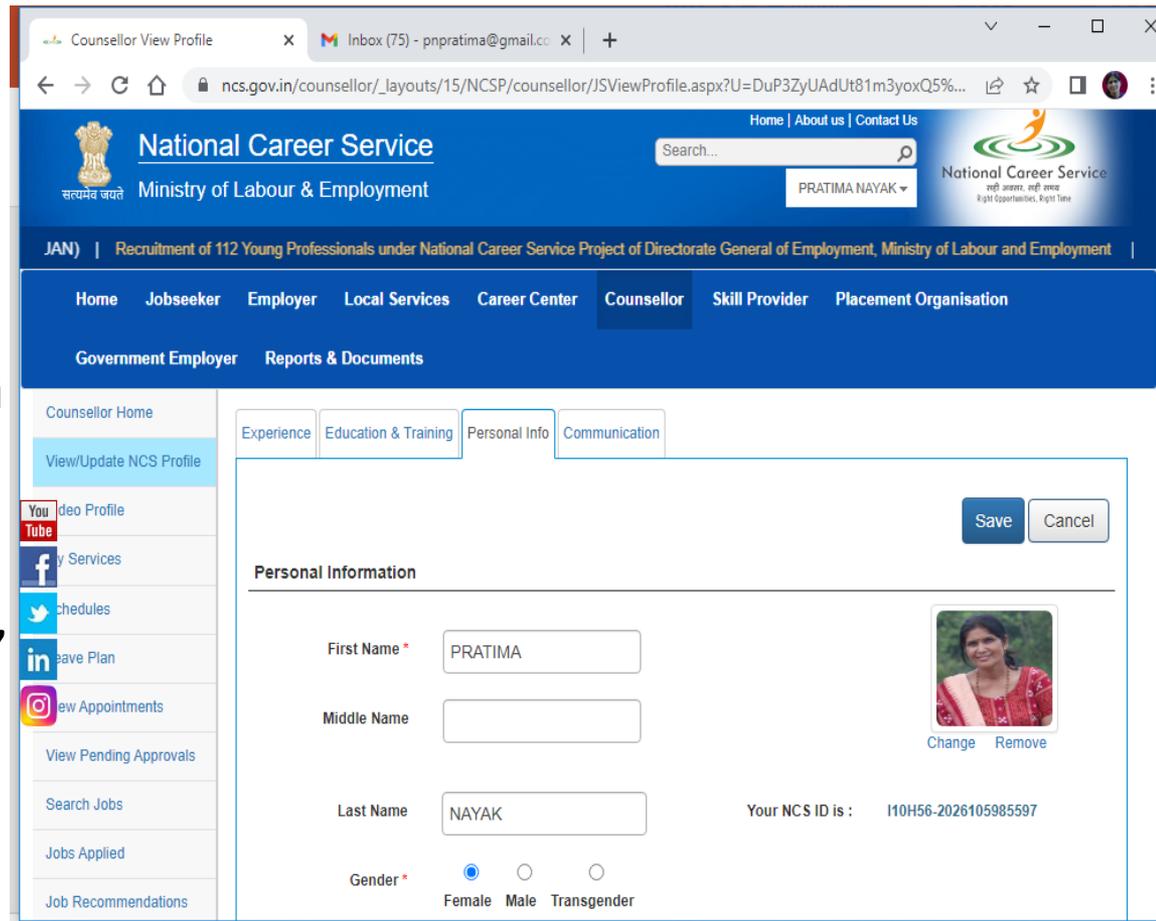


# Year 2015 : I became online career Counsellor

Government of India started on line Portal “National Career Service” for career counselling.

I got an invitation to be a part of it.

I became online career counsellor for, Still today, I am working as online career counsellor on this portal. It is a very successful programme.



The screenshot displays the National Career Service (NCS) portal interface. The header includes the Government of India logo, the text "National Career Service Ministry of Labour & Employment", a search bar, and the user name "PRATIMA NAYAK". A navigation menu lists various roles: Home, Jobseeker, Employer, Local Services, Career Center, Counsellor (highlighted), Skill Provider, and Placement Organisation. Below the menu, there are tabs for "Counsellor Home", "View/Update NCS Profile", and social media links for YouTube, Facebook, Twitter, LinkedIn, and Instagram. The main content area shows the "Personal Information" section with fields for First Name (PRATIMA), Middle Name, Last Name (NAYAK), and Gender (Female selected). A profile picture of a woman is shown with "Change" and "Remove" options. The "Your NCS ID is : 110H56-2026105985597" is displayed at the bottom right. The browser address bar shows the URL "ncs.gov.in/counsellor/\_layouts/15/NCSP/counsellor/JSViewProfile.aspx?U=DuP3ZyUAUt81m3yoxQ5%..."

# Year 2011-12

Kendriya Vidyalaya  
Fort William  
participated  
International school  
award competition  
British Council to  
integrate International  
dimensions to the  
curriculum.



# Year 2011-12

## Some of the innovative Projects were

1. Tales of a river beyond boundaries
2. ME THE SAVIOUR YOU THE SURVIVOR
3. Your Crop vs Our Crop
4. Friendship beyond boundaries
5. In the land of marvels: folk –tales
6. Geometry in Architecture

Students greatly improved their language skills, research skills, and skill of collaboration and other 21<sup>st</sup> century skills.

**Year 2012:  
School was awarded  
International School Awards 2012-15, British Council**

80 percent of students and teachers participated in nine number of projects.



The students learnt all the possible ICT tools to collaborate with other students of different countries

Year 2012-15

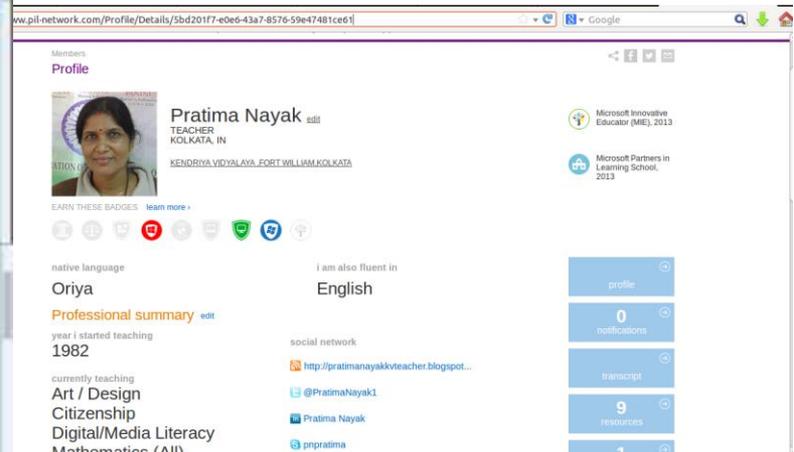
I was awarded

International School coordinator Awards 2012-15

As a coordinator of whole programme , I got opportunity to interact with Educators and Teachers of different countries and learnt about their educational system, practice and pedagogy.

# Year 2010-15 : Projects and Projects

My projects were showcased in Microsoft, Think Quest and wikispaces.com websites.



## Some of my most liked projects were

- Learn about triple Ms MeanMedianMode
- Mathematics of Planet Earth
- **Mathematics of Kites**
- Measuring Monuments
- Only one degree of difference changes a lot
- Live and Let Live
- Geometry and Architecture
- **Who got what from London Olympics -2012**
- Arctic Ocean and Equation to straight line

# Project : Who got what from London Olympics?

The screenshot shows a web browser window with the address bar displaying 'datahandlingolympics.wikispaces.com'. The main heading is 'Data handling Summer Olympics-2012'. Below the heading, there is a paragraph: 'We, 80 students of Class -VIII of Kendriya Vidyalaya, Fort William, Kolkata are learning the concept "Data Handling" in mathematics using huge data of Olympics -2012 (Summer). We are bringing all data related to Olympics -2012 (London) with Bar Graph, pie Chart, Quiz and many more things.....'. Below the text, there is a grid of student portraits. The first row of names is: Anvasha, Aditi, Sakshi, Madhumita, Rohini, and Tiyasha. The second row shows more portraits without names. At the bottom, a Windows taskbar is visible with various application icons.



# Project : Mathematics of Kites

https://pratimanayakkvteacher.wikispaces.com

Google

## Mathematics of Kites



Project by Class VIII students of Kendriya Vidyalaya, Fort William, Kolkata. Facilitator: Pratima Nayak

- Home
- Project Plan
- Project at a glance
- Project implementation Plan
- Profile of Teacher
- Kites of different Countries
- International Kite festival
- Family of Quadrilaterals
- GeoGebra applets
- How to make a kite?
- Area of Quadrilaterals
- How to fly a kite?
- Quiz
- Students assessment
- Students assessment-2
- Students Relections
- Supportive documents
- ASSESSMENT OF KITE FLYING
- Educators' feedback
- Facilitator's Page
  - see more
  - edit navigation

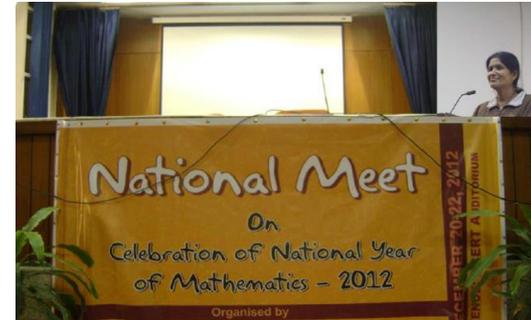
# Year 2012-17 : Mathematics with GEOGEBRA

I tried different ICT tools off line & online for teaching learning Mathematics.

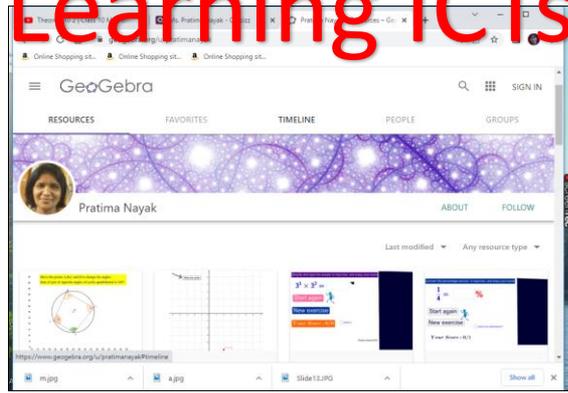
I presented my findings in different conference conducted at different RIEs and NCERT.

I posted online to get feedback from other experts.

I developed more than 100 Apps in GEOGEBRA



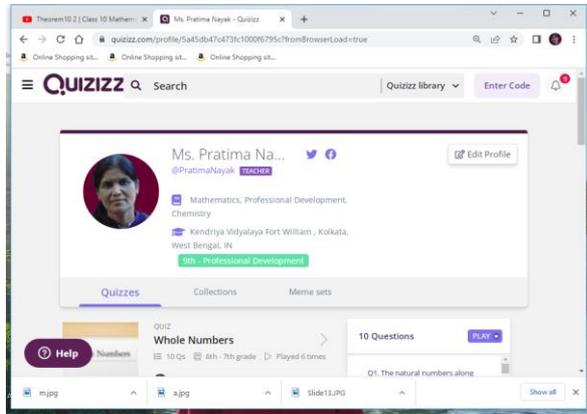
# Learning ICTs and Sharing



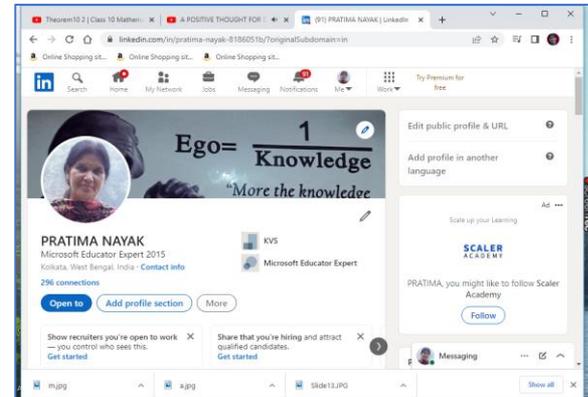
GeoGebra



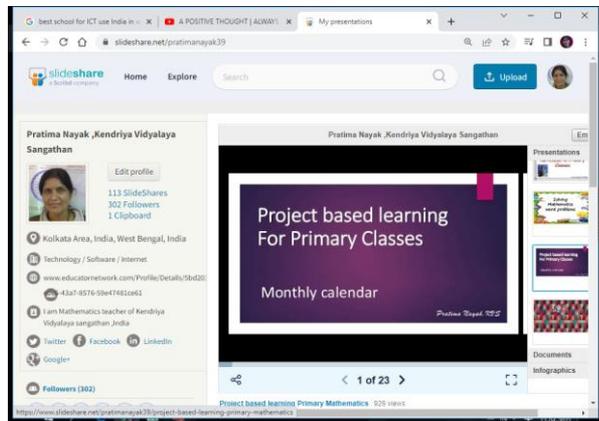
Quizzes



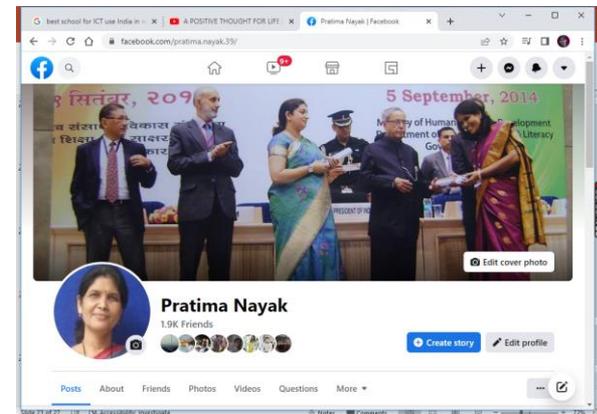
Slideshare.net



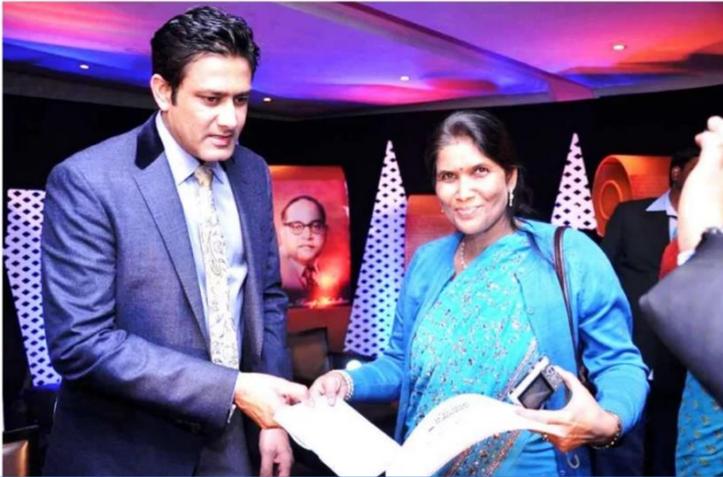
Classroom2.0



Tweeter



Face book



**BRITISH COUNCIL**  
**INTERNATIONAL SCHOOL AWARD 2012-15**

THIS IS TO CERTIFY THAT  
**PRATIMA NAYAK**  
 KENDRIYA VIDYALAYA, FORT WILLIAM KOLKATA

HAS BEEN ACCREDITED FOR  
**COORDINATING THE INTEGRATION OF INTERNATIONAL LEARNING IN THE CURRICULUM**

19 NOVEMBER 2012

*Martin Davidson*  
 Martin Davidson CMC  
 Chief Executive, British Council

**PEARSON**  
**TEACHING AWARDS**  
 EXCELLENCE IN SCHOOL TEACHING.

**Certificate of Excellence**

In appreciation of Mr/Ms Pratima Nayak  
 for exemplary dedication and contribution in the field of Teaching.

*Srikanth B Iyer*  
 Srikanth B Iyer  
 CEO - Pearson Education Services Pvt Ltd

Associate Partner: **NETTY PROFI**  
 Knowledge Partner: **IQDEF**  
 Print Media Partner: **Digital LEARNING**  
 Technology Partner: **Intel**

ALWAYS LEARNING

**INDIA EDUCATION AWARDS 2008**

**AWARD FOR EXCELLENCE**

**ZONAL WINNER**

*Pratima Nayak, K.V., Fort William, Kolkata*

is recognized and awarded for excellence in School Education

Category: *Teachers Award (Senior Govt.)*

Zone: *East (Third Position)*

*Anjee Prakash*  
 Dr. Anjee Prakash  
 Chairperson

**Education Quality Foundation of India**

**EQFI**  
 enabling excellence

**There is no limit to the goals you can attain, your possibilities are endless as your dreams.**

# Year 2013 : I touched the sky



**I was awarded National ICT Award from**  
Honourable President of India Sri. Pranab Mukherjeeji  
I was privileged to be with  
Honourable Prime Minister Sri. Narendra Modiji

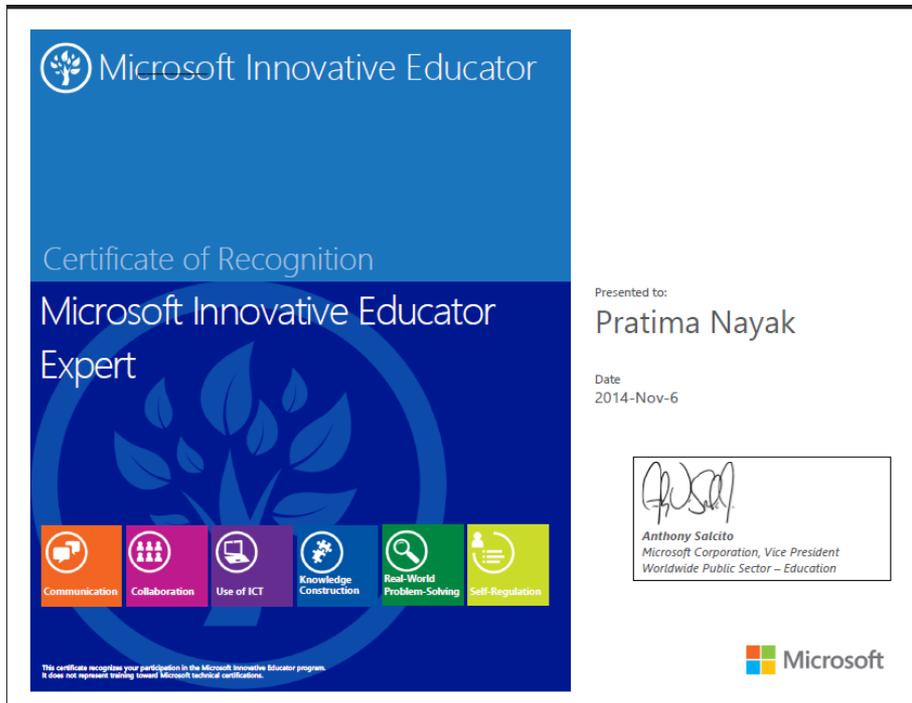
# Year 2013 : I touched the sky



I am very much thankful to CIET, NCERT for providing platform for the teachers  
I am thankful to thousand of my students as my success is due to them only.

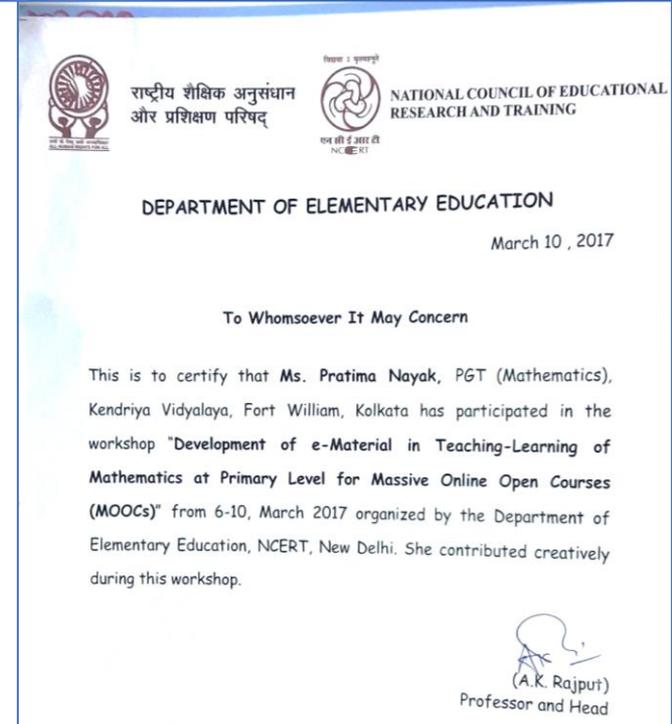
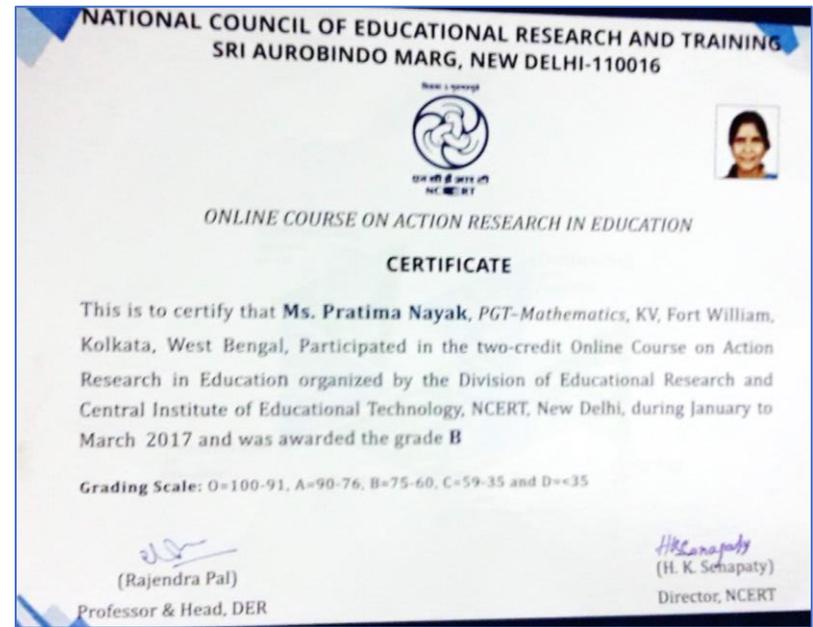
# My journey didn't stop ,Year 2014-15

- I was a member of Review committee for ICT syllabus by CIET, NCERT
- Microsoft Innovative Educator Expert Award 2014-15
- Study materials for West Bengal State school Teachers
- Resource Person for Gender Sensitization



# Year 2017 - 18

- Completed online course Acton Research for Teachers , NCERT in 2017
- Participated in workshop to develop mobile App for early Education for Pre Primary students in 2017,in Department of Elementary Education, NCERT
- Participated in E-content development CIET, NCERT



# 2019 : Focusing on my You Tube Channel

Sign in - Google Accounts x Pratima Nayak - YouTube x +

youtube.com/channel/UCZgbbbsJkMz5JoYzVcvmPw

Search

Math & Mind

Pratima Nayak  
1.51K subscribers

SUBSCRIBE

HOME VIDEOS PLAYLISTS COMMUNITY CHANNELS ABOUT

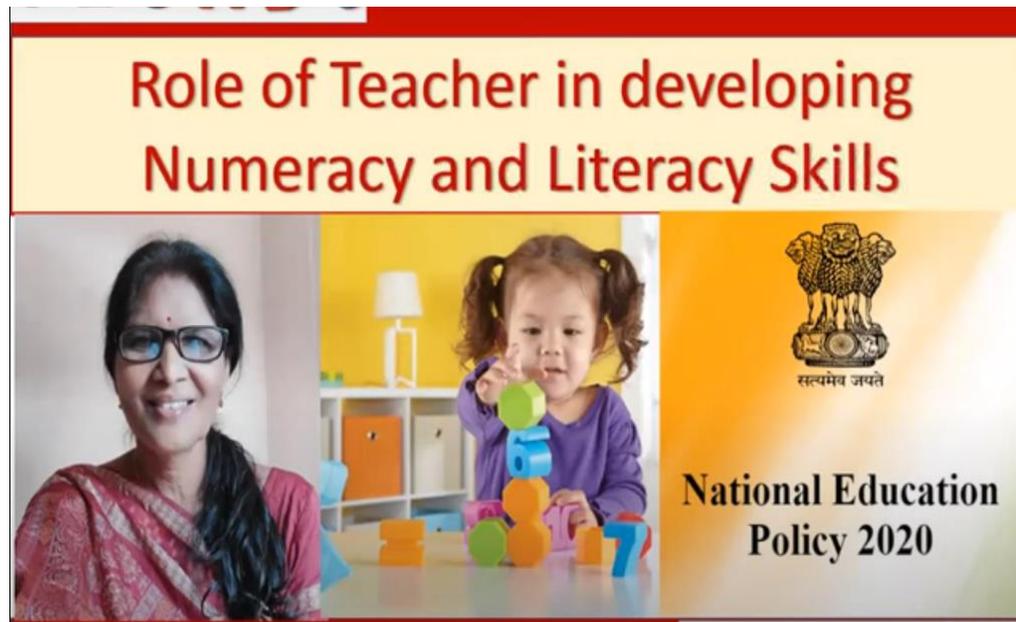
I love children | The awards, I achieved, th...  
1,414 views • 1 year ago

I am Pratima Nayak . I have achieved many award including India's best award for Teachers from President of India.I believe what I have achieved as the return of love I have in my heart for the students, the care I have given them for years.My channel is for students of each age group.I like t see the children to love Mathematics . I love to feel that the children are growing without fear of Mathematics with out depression and with out stress ...  
READ MORE

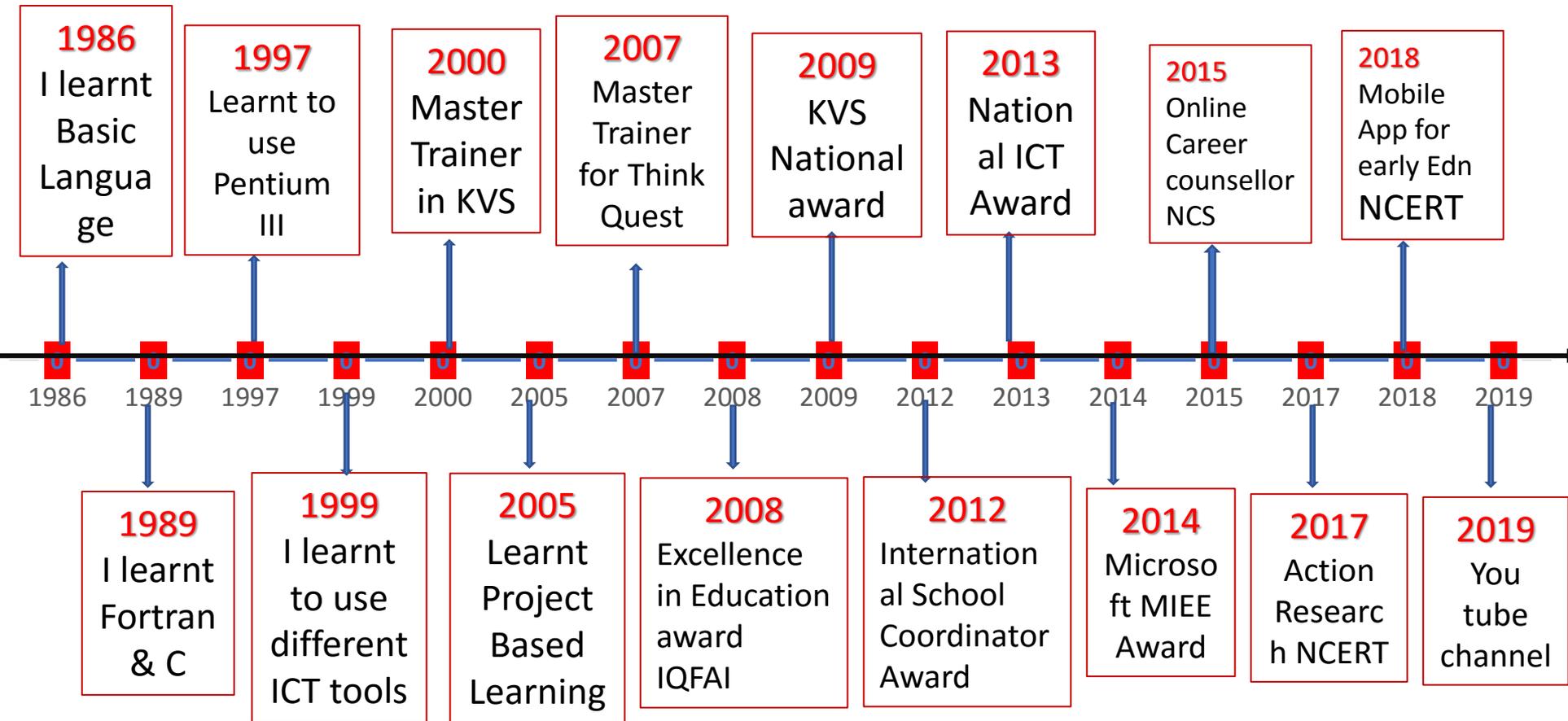
# 2020 :National Education Policy

I am working on Numeracy Skills & Competency

- Resource Person for KVS Teachers
- Online Workshop in development of Exemplar Problems in Classes 9 and 10, RIE, Bhubaneswar
- Online Workshop for development HOTS Maths questions for Classes 9 and 10 , NCERT



# Pratima Nayak : My ICT journey.....



I feel lucky to be part of CIET , RIEs &  
Mathematics Department NCERT.

Whenever I get opportunity I feel blessed to work.



**Pratima Nayak**