

# My Journey As A National ICT Awardee

**National ICT Award 2016  
Gulzar Ibrahim Dambal  
Asst Science Teacher  
Karnataka Public School  
Thyamagondlu  
Nelamangala Taluk  
Bangalore Rural Dist  
Karnataka**



# About Myself

**2003 – 2005 : Completed BSc in CBZ**

**2006 : Completed BEd with physical and biological science**

**2007 : Appointed as Asst science Teacher in KPS Thyamagondlu**

**2008 – 2010 : Completed MSc in Chemistry**

**Experience : 15 years of teaching Experience**

**First Working Place : SDM High School Dharwad**

**Government Appointment : KPS Thyamagondlu**

**Subject Taught : Physical and Biological Science**

# About My School

- My School Is situated in Rural area.
- It is established before Independence
- We have 11 Sections from 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> classes
- We have Both English medium and Kannada medium classes
- 600 Children are enrolled in our School
- The Majority of Students are from below Poverty line





# About our Computer Lab

- Computers were expected to come in ICT Phase 3 program ,But didn't get those computers
- Cognizant foundation Donated 30 debonded computers in 2013-14
- 25 computers were in working condition
- Computer lab has 3 all in one printers , 3 projectors ,LCD T V, 5 Laptops
- We had Dial up Brand band Connection
- Now we have 4 Smart Boards



# My Journey With ICT Includes

- ❖ **Self Learning as a teacher**
- ❖ **As a Resource person**
- ❖ **For Professional growth**
- ❖ **In creating resource**

# **My Journey With ICT**

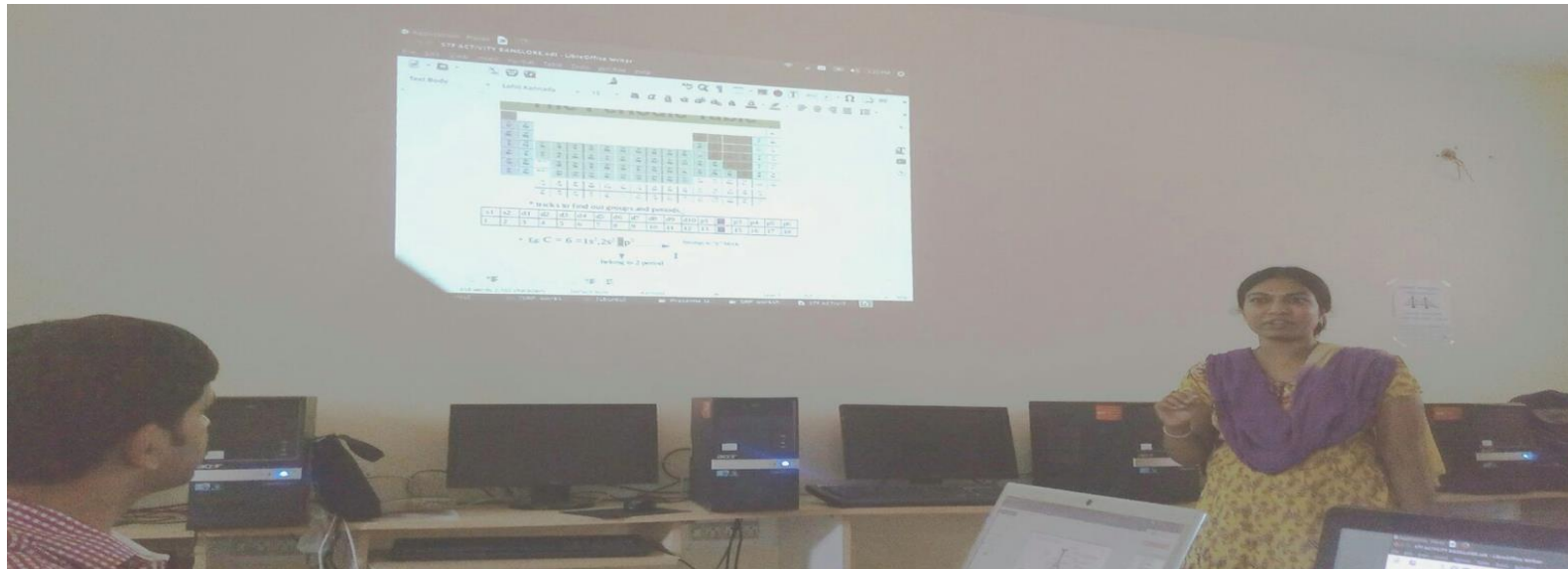
- **In 2007 I got Departmental Microsoft Training from urban DIET Bangalore**
- **That was my first step towards the use of ICT in teaching learning process**
- **In 2014-15 invited by DIET Bangalore rural to work as State Resource Person for Science “subject Teachers Forum”**
- **This programme gave me useful training about integration of ICT in classroom teaching learning process**



# DIET Bangalore Rural to work as State Resource Person for Science “subject Teachers Forum”



**Demonstrating PhET simulation**



**Demo on Kalzium Software in STF training**

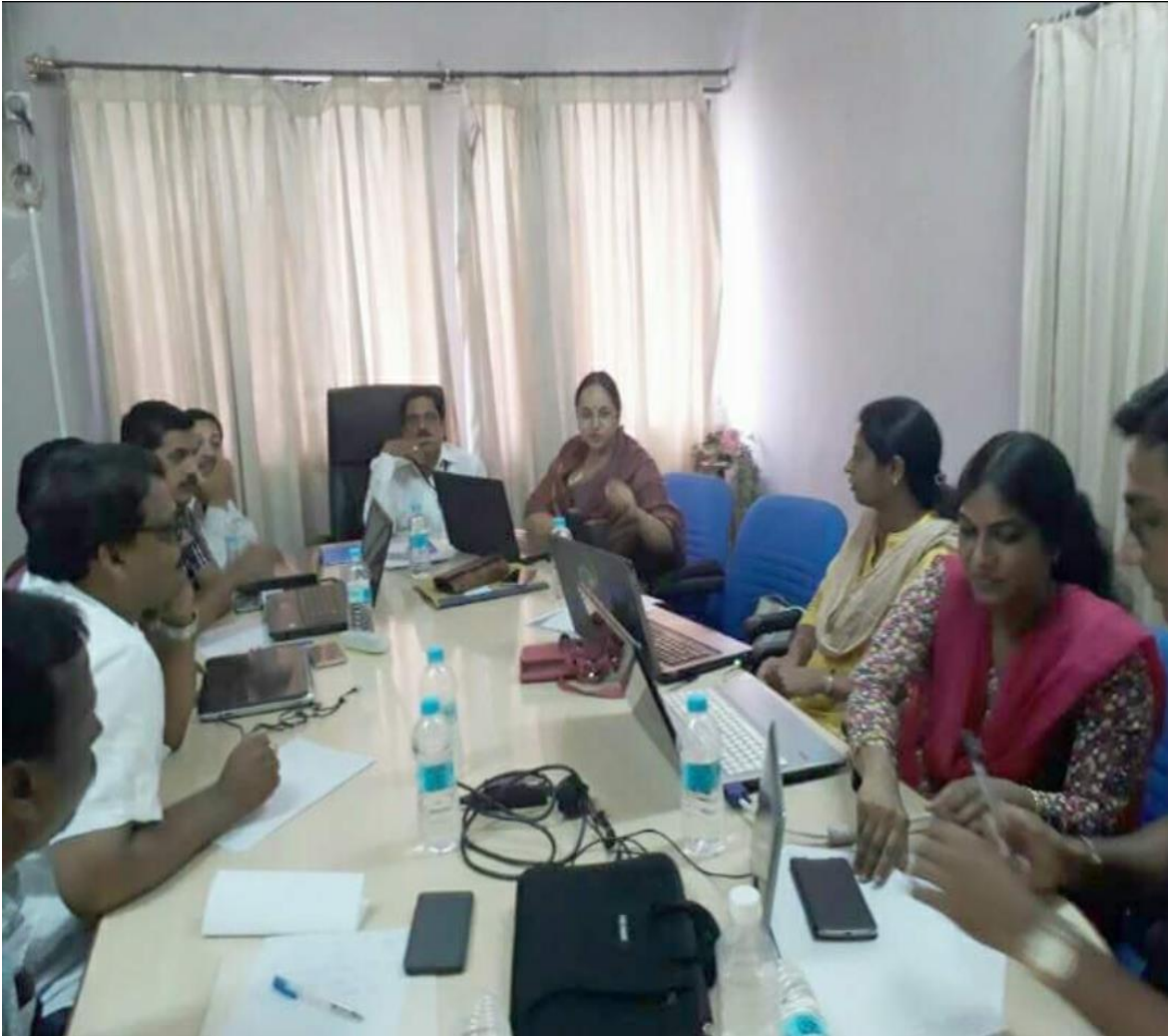
**Department of Minority Identified me as Resource person for demonstrating a Science class using ICT tools to MDRS newly appointed teachers and to minority primary school teachers all over State**



**Demonstrating a Science class using ICT tools to MDRS newly appointed teachers and to minority primary school teachers in RIE Bangalore**



# Worked with DSERT : Creating e-content Translating Amrita O Labs Science Videos and Voice recording In kannada



# Why Did I integrate ICT In teaching learning process ?

## ➤ Challenges faced by me in teaching Science :

- Difficulty in teaching abstract concept of science by traditional method of teaching
- Adhering to inquiry ,embracing Scientific methods ,understanding how hypothesis work and how to approach are all challenging skill to impart into students
- Difficulty in clarifying misconceptions in science
- Classroom with different abilities of students
- Teacher student ratio is not favorable
- Large Classes with 70 to 80 students in each class .

- More time required for diagram sketching on blackboard
- Not availability of teaching aids
- Lack of time in teacher time table for experimental work preparation
- Lack of Laboratory assistance
- Lack of practice skill among students





# Use of ICT in Education – Innovative Effort

## ICT in My teaching and Learning

- ✓ I need to Transform content knowledge into suitable activities , analogies , demonstration or simulation
- ✓ After getting Trained ,I understood how can ICT be a powerful tool for learning science concepts
- ✓ I started using creating resource material using ICT
- ✓ Used multiple tools for creating classroom resources
- ✓ Created many videos and presentation to focus on conceptual understanding

# My Best Collection of ICT tools in Teaching learning Process

- ✓ Free and Open source tools
- ✓ PhET Simulations
- ✓ Kalzium
- ✓ Open Shot video Editor
- ✓ Audacity

- ✓ E Patashala
- ✓ Presentations
- ✓ Lesson Plans
- ✓ Activity Worksheets
- ✓ Educational Videos
- ✓ Creation of Digital Stories

# How Did I Use ICT Tools In Teaching Science



# Free and open source tools

- I use PhET simulations, kalzium software and also recorded my voice to Phet simulations like Factors affecting Faraday's Law and Build an atom
- Designed many worksheet on basis of PhET and Kalzium software for students to work

The screenshot displays the 'Build an Atom' simulation interface. At the top center, a yellow box lists 'Protons:', 'Neutrons:', and 'Electrons:'. Below this is a diagram of an atom with a central nucleus (marked with a yellow 'X') and two concentric dashed elliptical orbits. At the bottom, three buckets labeled 'Protons' (red), 'Neutrons' (grey), and 'Electrons' (blue) contain small spheres representing these particles. On the right side, there are three yellow control panels: 'Element' (showing a periodic table), 'Net Charge' (with a scale from -2 to +2 and a '0' indicator), and 'Mass Number' (with a balance scale and a '0' indicator). Below these panels, a 'Model:' section has radio buttons for 'Orbits' (selected) and 'Cloud'. A 'Show' section has checkboxes for 'Element Name', 'Neutral/ion', and 'Stable/Unstable', all of which are checked. A circular refresh button is also present. The bottom of the screen shows a taskbar with the title 'Build an Atom' and a version number 'Build an Atom 1.12'.

# Outcomes

- **Use of PhET simulation helped students able to visualize the invisible**
- **Students can learn through the investigation , exploration and easily comprehend the knowledge**
- **Use of Kalzium helped to show the periodic table of elements and to search information about elements**
- **Student can predict what will happen next and lead class discussion and allow to reason around questions**
- **Students gave the dynamic visual feedback**



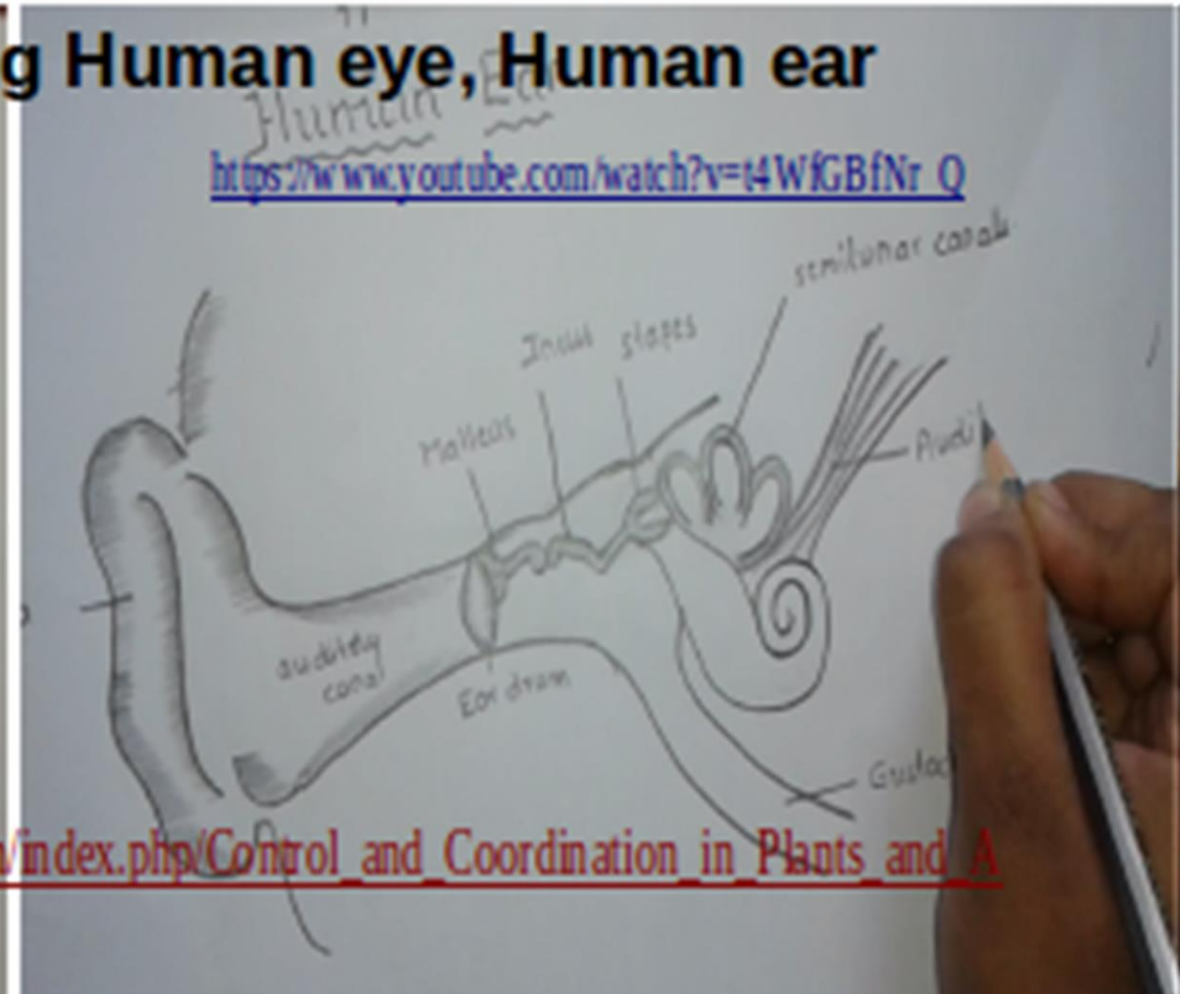
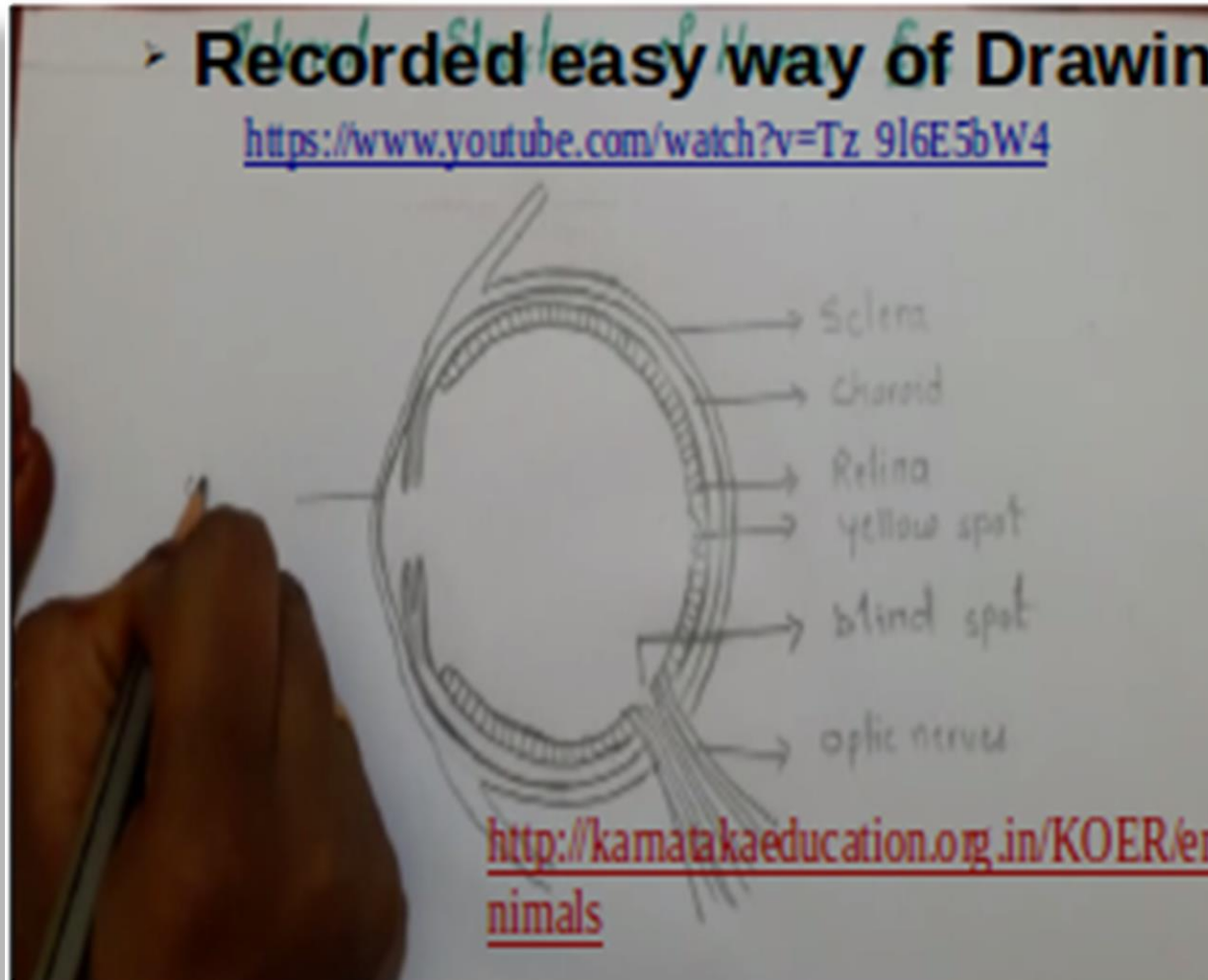
**Using build an atom  
phet simulation  
in studying structure of  
atom**



**Students using Phet  
simulation  
to learn Faraday's  
experiment**

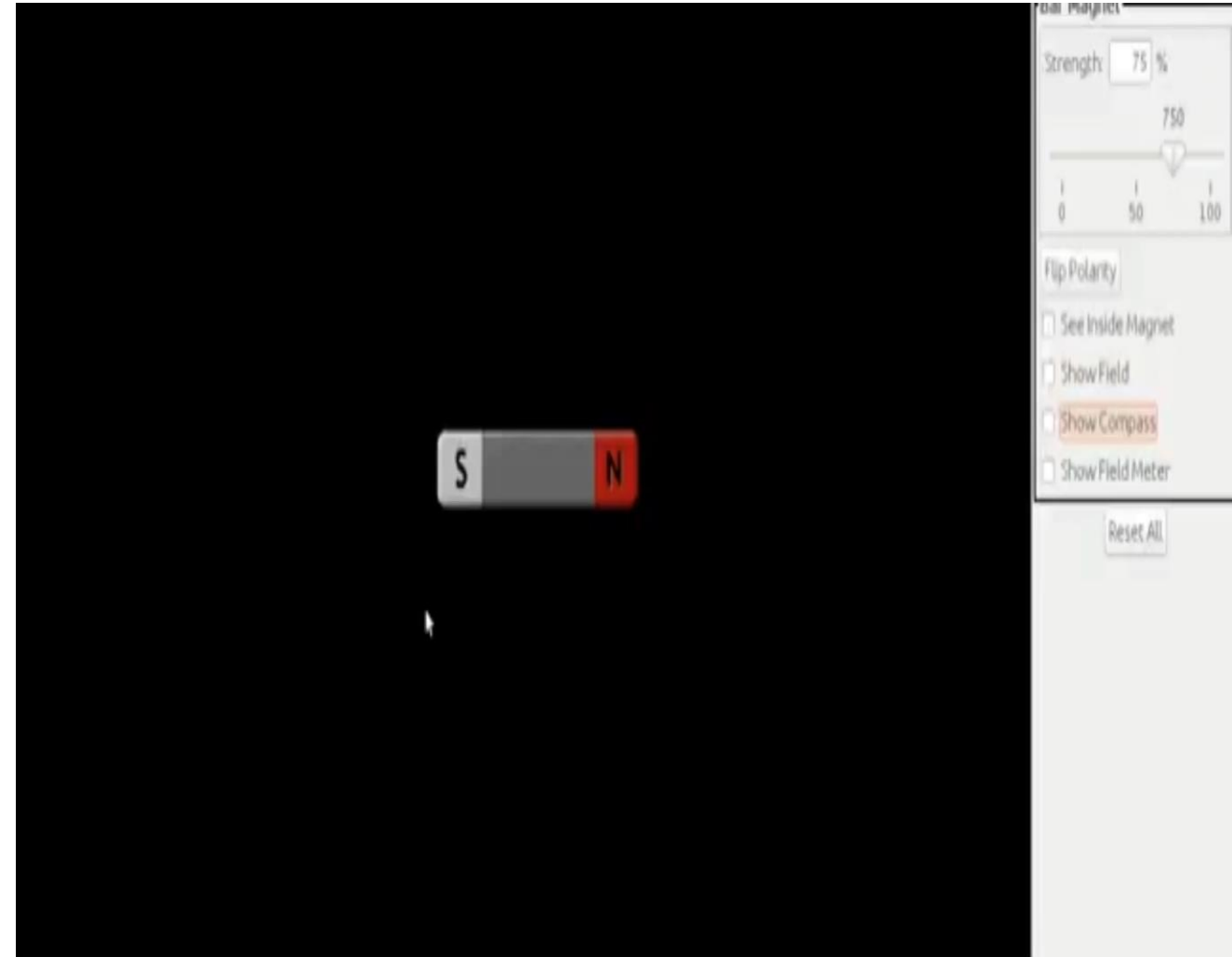


Using MOBILE to record easy way of Drawing Human eye, Human ear to project on screen to develop the skill of drawing And uploaded in you tube and KOER

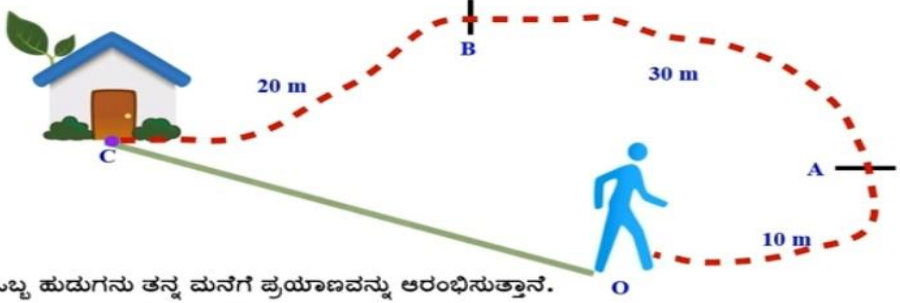


# Making Use of open shot editor and Audacity to make educational videos in kannada

- Used open shot editor and audacity to record my voice to English video
- Translated many Amrita O Labs video in kannada language
- Prepared many Presentation on different Topics to develop conceptual understanding among students .



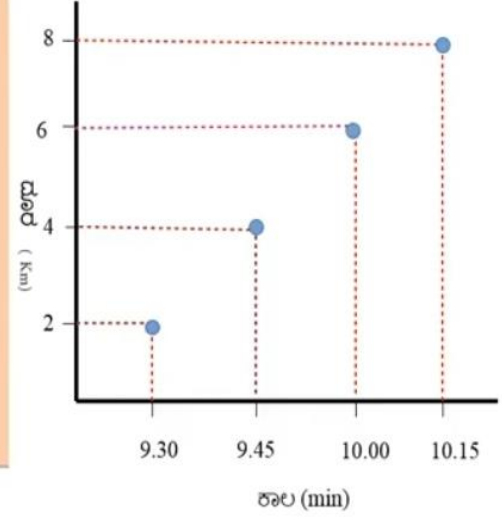
## ಸ್ಥಾನ ಪಲ್ಲಟ



ಒಬ್ಬ ಹುಡುಗನು ತನ್ನ ಮನೆಗೆ ಪ್ರಯಾಣವನ್ನು ಆರಂಭಿಸುತ್ತಾನೆ.  
ಅವನು ಬಿಂದು A ಮತ್ತು B ಯ ಮುಖಾಂತರ ಚಲಿಸಿ ತನ್ನ ಮನೆಗೆ ತಲುಪುತ್ತಾನೆ.  
ಆ ಹುಡುಗನು ಚಲಿಸಿದ ಒಟ್ಟು ದೂರ :  $OA + AB + BC = 60 \text{ m}$  ಆಗಿದೆ.  
ಆದರೆ ಹುಡುಗನ ಪ್ರಾರಂಭಿಕ ಸ್ಥಾನದಿಂದ (O) ಅವನ ಮನೆಯವರೆಗೆ ಇರುವ ಕನಿಷ್ಠ ದೂರವು  $35 \text{ m}$  ಆಗಿದೆ .

ವಸ್ತುವು ಏಕರೂಪ ಜವದೊಂದಿಗೆ ಚಲಿಸುತ್ತಿರುವಾಗ ದೂರ - ಕಾಲ ನಕ್ಷೆಯ ಅಂಶಗಳು :

- 1.ಕಾಲವು ಬಲಭಾಗಕ್ಕೆ ಹೆಚ್ಚುತ್ತಾ ಹೋಗುತ್ತದೆ
- 2.ದೂರವು ಕಾಲದೊಂದಿಗೆ ನಿರಂತರವಾಗಿ ಹೆಚ್ಚುತ್ತದೆ
- 3.ವಸ್ತುವು ಚಲಿಸಿದ ದೂರವು ಅದು ತೆಗೆದುಕೊಂಡ ಕಾಲದೊಡನೆ ನೇರ ಅನುಪಾತದಲ್ಲಿರುತ್ತದೆ
- 4.ಏಕರೂಪ ಜವಕ್ಕೆ ಚಲಿಸಿದ ದೂರ ಮತ್ತು ಕಾಲ ನಕ್ಷೆಯು ಒಂದು ಸರಳರೇಖೆಯಾಗಿರುತ್ತದೆ



## ಅಧ್ಯಾಯ : ಚಲನೆ (ಭಾಗ 1 ) NCERT 9 ನೇ ತರಗತಿ ವಿಜ್ಞಾನ

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Gulzar I Dambal

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## ಅಧ್ಯಾಯ: ಚಲನೆ ಭಾಗ 2 NCERT 9 ನೇ ತರಗತಿ

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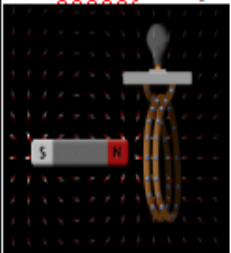
# Prepared and Shared 5 E based Lesson plan in STF and mentioned use of ICT tools in my lesson plan


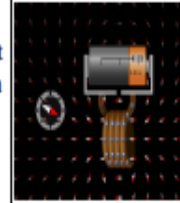
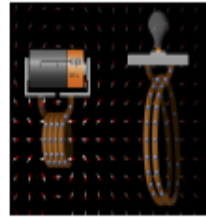


## Electromagnetic Induction

Total period : \_\_\_\_\_ Date from : \_\_\_\_\_ To: \_\_\_\_\_

### Objectives

1. Recall the alternative sources of energy
2. Understand the meaning of EMI
3. Able to understand the Faraday's law of Electromagnetic Induction
4. Differentiate the Dynamo and Motor
5. Develop skill to make toys by using DC Motor

5 E	Learning competencies	Learning assisted activities	Learning Aids	Evaluation		Teacher's self inspection
				Technique	Tool	
Engage	<ul style="list-style-type: none"> <li>◆ Sources of Electricity</li> <li>◆ Biography of Michael Faraday</li> </ul> 	<ul style="list-style-type: none"> <li>◆ By showing the sources of Electricity citing suitable examples make them to understand the earlier sources of electricity</li> <li>◆ Students referring library books and from the internet sources collecting the information of Faraday and his contribution</li> </ul>	Acid battery, Dry cell  Library encyclopedia	Observation	Observation list	
Explore	<ul style="list-style-type: none"> <li>◆ Magnetic Effect of Electric current</li> <li>◆ Faraday's Experiment</li> <li>◆ Factors on which induced emf depends</li> </ul>	<ul style="list-style-type: none"> <li>◆ Oersted's experiment is conducted to explore magnetic effect of electric current by watching PhET simulation</li> </ul>	Copper wire, cardboard tube, bar magnet, Galvanometer,	Observation	Experiments	

	<ul style="list-style-type: none"> <li>◆ Faraday's Law of electromagnetic induction – applications</li> </ul> 	<ul style="list-style-type: none"> <li>◆ Faraday's experiment is conducted to explore emf</li> <li>◆ By group discussion list out the factors on which induced emf depends (using PhET simulation)</li> </ul>	PhET Simulations  	Discussion	Check list	
Explain	<ul style="list-style-type: none"> <li>◆ Fleming's Right and Left Hand Rule</li> <li>◆ AC Dynamo</li> <li>◆ DC Dynamo</li> <li>◆ DC Motor</li> <li>◆ Transformer</li> <li>◆ Induction coil</li> </ul> 	<ul style="list-style-type: none"> <li>◆ Asking students to do Fleming's right and Left hand rule to recognize direction of induced current, magnetic field and motion of conduction</li> <li>◆ With help of models and block diagrams understand the construction of AC and DC Dynamo and Motor</li> <li>◆ By watching PhET simulation easily understand the working of Dynamo and Motor</li> <li>◆ Group discussion on working and function of transformer and induction coil</li> </ul>	Dynamo and Motor Models, Black board and Chalk  computer projector PhET simulations   	Observation  Observation  Discussion	Observation List  Observation List  Check list	

**ಅಧ್ಯಾಯ : 3 : ಪರಮಾಣುವಿನ ರಚನೆ**

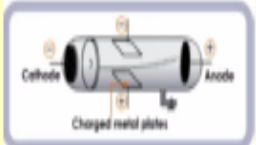
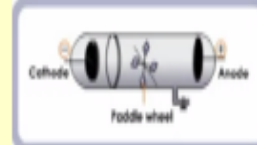

**ಓಟು ಅವಧಿ :** \_\_\_\_\_ **ಆರಂಭದ ದಿನಾಂಕ :** \_\_\_\_\_

**ಮುಕ್ತಾಯದ ದಿನಾಂಕ :** \_\_\_\_\_

**ಕಲಿಸುವಿಕೆಯ ಉದ್ದೇಶಗಳು :**

- ಡಾಲ್ಬನ್ ಪರಮಾಣು ಸಿದ್ಧಾಂತವನ್ನು ವಿವರಿಸುವರು
- ಪರಮಾಣುವಿನ ಮೂಲಭೂತ ಕಣಗಳು ಹಾಗೂ ಅವುಗಳ ಗುಣಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡುವರು.
- ಜೆ. ಜೆ ಥಾಂಪ್ಸನ್‌ನ ಕ್ಯಾಥೋಡ್ ಕಿರಣಗಳ ಉತ್ಪಾದನೆಯ ಪ್ರಯೋಗವನ್ನು ವಿವರಿಸುವರು.
- ಪರಮಾಣು ಸಂಖ್ಯೆ, ಪರಮಾಣು ರಾಶಿ ಸಂಖ್ಯೆಗಳ ಡಾಕ್ಟ್ರಿನ್ ಮಾಡುವರು
- ಕ್ಯಾಥೋಡ್ ಕಿರಣ ಮತ್ತು ಆನೋಡ್ ಕಿರಣಗಳ ಗುಣಗಳನ್ನು ವಿವರಿಸುವರು.
- ಪರಮಾಣುವಿನಲ್ಲಿನ P, N, E, A, Z ಗಳನ್ನು ಲೆಕ್ಕಿಸುವರು
- ರುದರ್‌ಫೋರ್ಡ್ ಮತ್ತು ನೀಲ್ ಬೋರ್ ರ ಪರಮಾಣು ಮಾದರಿಯನ್ನು ವರ್ಣಿಸುವರು.
- ಸಮಸ್ಥಾವಿಗಳನ್ನು ವಿವರಿಸುವರು

5 E	ಕಲಿಕೆಯ ಅಂಶಗಳು	ರೂಪಿಸಿದ ಚಟುವಟಿಕೆ	ಕಲಿಕೋಪಕರಣ	ಮೌಲ್ಯಮಾಪನ		ಶಿಕ್ಷಕರ ಸ್ವಾವಲೋಕನ
				ಕಂಕ್ರ	ಸಾಧನ	
Engage	<ul style="list-style-type: none"> <li>• ಮೂಲಭೂತ ವಸ್ತುಗಳು</li> <li>• ಪರಮಾಣುವಿನ ಅರ್ಥ</li> </ul>	<ul style="list-style-type: none"> <li>• ಮೂಲಭೂತ ವಸ್ತುಗಳು ವಾತಾವರಣದಲ್ಲಿ ಆದ ಗೆರವು ಬಗ್ಗೆ ಪ್ರಶ್ನೆಗಳನ್ನು ಕೇಳುವುದು</li> <li>• ದಿನನಿತ್ಯ ಉಪಯೋಗಿಸುವ ಧಾತುಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡುವುದು ಮತ್ತು ಅವುಗಳ ಸಂಕೇತಗಳನ್ನು ಬರೆಯುವುದು</li> </ul>	ವಿವಿಧ ಧಾತುಗಳ ಪ್ರದರ್ಶನ	ಅವಲೋಕನ	ಅವಲೋಕನ ಪಟ್ಟಿ	
Explore	<ul style="list-style-type: none"> <li>• ಪರಮಾಣುವಿನ ಮೂಲಭೂತ ಕಣಗಳು</li> <li>• ಪರಮಾಣುವಿನಲ್ಲಿ ಧನ ಮತ್ತು ಋಣ ವಿದ್ಯುತ್ ಕಣದ ಇರುವಿಕೆ</li> <li>• ಜೆ ಜೆ ಥಾಂಪ್ಸನ್‌ನ ಪ್ರಯೋಗ</li> </ul>	<ul style="list-style-type: none"> <li>• ಕ್ಯಾಥೋಡ್ ಕಿರಣಗಳ ಬಗ್ಗೆ ಪ್ರಯೋಗದ ಮೂಲಕ ತಿಳಿಯುವುದು</li> <li>• ವೋಟಾನಿನ ಲಕ್ಷಣಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡುವುದು</li> <li>• ಜೆ ಜೆ ಥಾಂಪ್ಸನ್‌ನ ಪ್ರಯೋಗ ರುದರ್‌ಫೋರ್ಡ್ ನ ಪ್ರಯೋಗ</li> </ul>	ವಿಜ್ಞಾನ ಸಂಶೋಧನಾ ಪ್ರಯೋಗಾಲಯ  PPT / Video	ಚಟುವಟಿಕೆ	ಪ್ರಯೋಗ	

	• ರುದರ್‌ಫೋರ್ಡ್ ನ ಪ್ರಯೋಗ	ವಿಕ್ರಿಸುವುದರ ಮೂಲಕ ಮೂಲಭೂತ ಕಣಗಳ ಲಕ್ಷಣಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡುವುದು				
Explain	<ul style="list-style-type: none"> <li>• ನೀಲ್ ಬೋರ್ ನ ಪರಮಾಣು ಮಾದರಿ</li> <li>• ಪರಮಾಣು ಸಂಖ್ಯೆ ಮತ್ತು ರಾಶಿ ಸಂಖ್ಯೆ</li> <li>• ಸಮಸ್ಥಾನಿ</li> </ul>	<ul style="list-style-type: none"> <li>• ನೀಲ್ ಬೋರ್ ನ ಪರಮಾಣು ಮಾದರಿಯನ್ನು ಚಿತ್ರ ಬರೆಯುವ ಮೂಲಕ ಅರ್ಥೈಸಿಕೊಳ್ಳುವುದು</li> <li>• ಪ್ರತಿ ಧಾತುವಿನ ಪರಮಾಣು ಸಂಖ್ಯೆ ಮತ್ತು ರಾಶಿ ಸಂಖ್ಯೆಯನ್ನು ಬರೆಯುವುದು</li> <li>• ಮೂಲ ವಸ್ತುಗಳಲ್ಲಿರುವ p, n, e ಗಳ ಸಂಖ್ಯೆಗಳ ಪಟ್ಟಿ ಕೆಯಾರಿಸುವುದು</li> <li>• PhET simulation ಮೂಲಕ ವಿವಿಧ ಪರಮಾಣುಗಳನ್ನು ರಚಿಸುವುದು ಮತ್ತು ಪರಮಾಣು ಸಂಖ್ಯೆ ಮತ್ತು ರಾಶಿ ಸಂಖ್ಯೆಗಳನ್ನು ತಿಳಿಯುವುದು</li> </ul>	<p>PhET simulation</p> 	ಅವಲೋಕನ	ಅವಲೋಕನ ಪಟ್ಟಿ	

# Prepared many worksheets on different topics and used same as evaluation tool

Govt P. U College (High School) Thyamagondlu, Nelamangala  
Bangalore Rural Dist  
Plant and animal tissue

Name: \_\_\_\_\_ Class: \_\_\_\_\_

Assessment Technique: Activity based and diagram based  
Assessment Parameter:

Rubrics :	Marks	Marks Obt
1. enable to perform activity and understand function of <u>meristem</u> tissue	5	
2. Underst and the <u>occurrence</u> , structure and function of simple permanent tissues	3	
3. Label the cells of xylem and phloem and write function of each cell	4	
4. <u>Draw</u> the diagram of neuron and explain the structure	3	
Total	15	

Task : Group work / Individual work

### Procedure :

1. Take two glass jars and fill them with water
2. Now, take two onions bulbs and place one on each jar as shown in figure
3. Observe the growth of roots in both the bulbs for few days
4. Measure the length of roots on day 1, 2 and 3
5. On the day 4, cut the root tips of the onion on bulb in jar 2 by about 1 cm.
6. After this, observe the growth of root in both the jar and measure their length each day for five more days
7. Record the observation in table given below



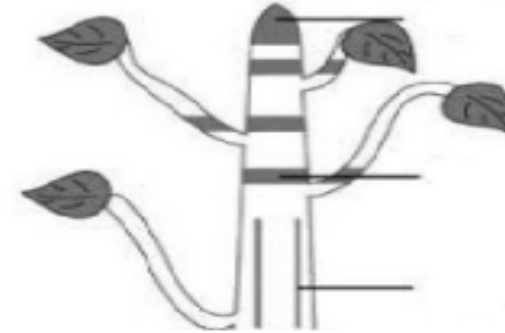
Length	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8
Jar - 1								
Jar - 2								

After day 8 cut the root from the onion of both jar and paste in the place given

Root of onion in Jar - 1	Root of onion in Jar - 2

From above observation answer the following questions :

1. Which of the two onion has longer roots? Why?
2. Do roots continue growing even after we have removed their roots?
3. Why would the tips stop growing in jar 2 After we cut them?
4. Classify meristems based on their position in the plant body and write their function.



1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Q11 Complete the table :

Name three types of simple permanent tissues. Write their occurrence, structure and function?

	<u>Parenchyma</u>	<u>Collenchyma</u>	<u>Sclerenchyma</u>
<u>Occurance</u>			
<u>Structure</u>			
<u>Function</u>			

Govt P. U. College (High School) Thyamagondlu, Nelamangala  
Bangalore Rural Dist  
**NUCLEAR ENERGY**

Name: \_\_\_\_\_ Class: \_\_\_\_\_

Assessment Technique: Individual worksheet on Phet nuclear fission simulation

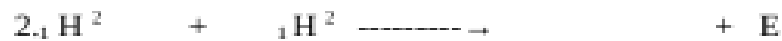
Assessment Parameter:

Rubrics :	Marks	Marks Obt
1. Observe PhEt simulation on nuclear fission reaction and able to complete the given table	2	
2. Able to complete the nuclear reaction	3	
3. Able to draw the diagram of nuclear power reactor and write the function of each part	6	
4. Able to answer the questions on nuclear reactions	4	
Total	15	

I. Complete the following chart:

1	Particle used to initiate fission reaction	
2	No of neutron released during nuclear reaction	
3	Isotopes of Uranium	
4	Stable isotope of Uranium	

II. Complete the nuclear reactions :



III. a) Draw the neat labeled diagram of nuclear reactor.

b) List the five parts of nuclear power plant and name the material used and describe what each one does

Parts	Material used	Uses

IV. The following is the list of the events that occurs in power plant arrange them in order.

- \_\_\_\_\_ steam moves into the turbines and turns the blade of the turbine
- \_\_\_\_\_ Electricity is created
- \_\_\_\_\_ Water is turned into steam in steam generator
- 1 \_\_\_\_\_ Nuclear reaction gives off lots of energy in the reactor core.
- \_\_\_\_\_ Water is heated up by energy released in the nuclear reaction.
- \_\_\_\_\_ The moving turbine operates the generator which produce electricity

V. Answer the following :

1. Draw the diagram to show nuclear chain reaction in  ${}_{92}^{235}\text{U}$



Govt P. U.College (High School) Thyamagondlu, Nelamangala  
Bangalore Rural Dist  
Periodic classification of Elements

Name: \_\_\_\_\_ Class: \_\_\_\_\_

Assessment Technique: Data Based Worksheet

Assessment Parameter:

Rubrics :	Marks	Marks Obt
QI : Study and analyze the given table Study and analyze the given table for the placement and property of the elements in the Modern Periodic table.	4	
QII. Use the <u>Dobereiner</u> law to determine the atomic mass of element A	3	
QIII. Discover the trend of increase and decrease of atomic size in periodic table Appreciate the periodic trends of change in atomic size of elements	4	
QIV : Draw the inference from the given data	4	
Total	15	

QI. Following table represents, a part of the Modern Periodic Table containing first three periods in which five elements have been represented by the letters a, b, c, d and e (these are not the chemical symbols of the elements)

Groups →	1	2	13	14	15	16	17	18
Period ↓								
1	a							
2			b				e	c
3	d							

1. Select the letters which represent alkali metal.  $\frac{1}{2} \times 6 = 3$

2. Select the letter which represent a noble gas.

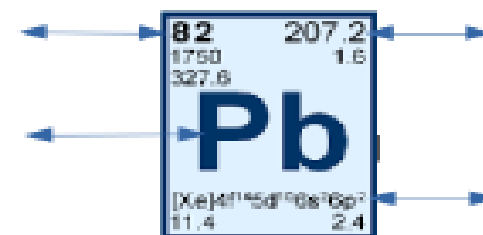
3. Select the letter which represent a halogen.

4. Where would you place an element 'F' with electronic configuration 2,8,4 in the given table

5. How many shells are present in element represented by 'd'?

6. What is the similarity in the electronic configuration of elements represented by 'a' and 'd'?

7. Mentions the details of given element given in following block  $1 \times 1 = 1$








QII. Use the Dobereiner law to determine the atomic mass of element A  $1 \times 3 = 3$

Sl No	Elements	Atomic No
1	A	?
2	B	88
3	C	137

- **Participated in forum, shared resource and many teachers used my resource**
- **Digitized my school records**

The screenshot shows a Gmail inbox with a search bar containing 'gulzar madam's'. The search results list several emails from 30/11/2015. The first email is from Gulzar I Dambal, with the subject '(CBZ) :ppt on plant and animal breeding for kannada medium sslc'. Other senders include Mehboob Aralagundagi, Basavaraj Karanandi, Arun kumar G S, supreethi bhat, Sreenivas Reddy, soma.s Gowda, mohan kg, Mohammad Zaheer, and Siddarameshwara V.

The screenshot shows a forum thread with several replies. The first reply is from MURALIDHARA DORESWAMY, dated 31 Aug, saying 'Good work madam.' The second reply is from Gulzar I Dambal, dated 31 Aug, saying 'On 31 Aug 2016 15:01, "gulzohra2011" <gulzohra2011@gmail.com> wrote: Respecte...'. The third reply is from mohan kg, dated 31 Aug, saying '<kgmohan296@gmail.com> to mathssciencestf'. The fourth reply is from a user with the name 'ಸಿ.ಕೆ.ಗೋಪಾಲ ರಾವ್', dated 31 Aug, saying 'THANK YOU MADAM FOR SHARING – Thanking You C K Gopala Rao B.R.P. (Science) B...'. The fifth reply is from Mustaq Bidari, dated 31 Aug, saying '<kingmushtaq@gmail.com> to mathssciencestf'. The sixth reply is from Gulzar mam, dated 31 Aug, saying 'many many thanks for ur selfless work for providing us incredible science useful material.We hope you will be inspiring us with your innovative thinking,new ideas for years to come.. Thanking you mam..'

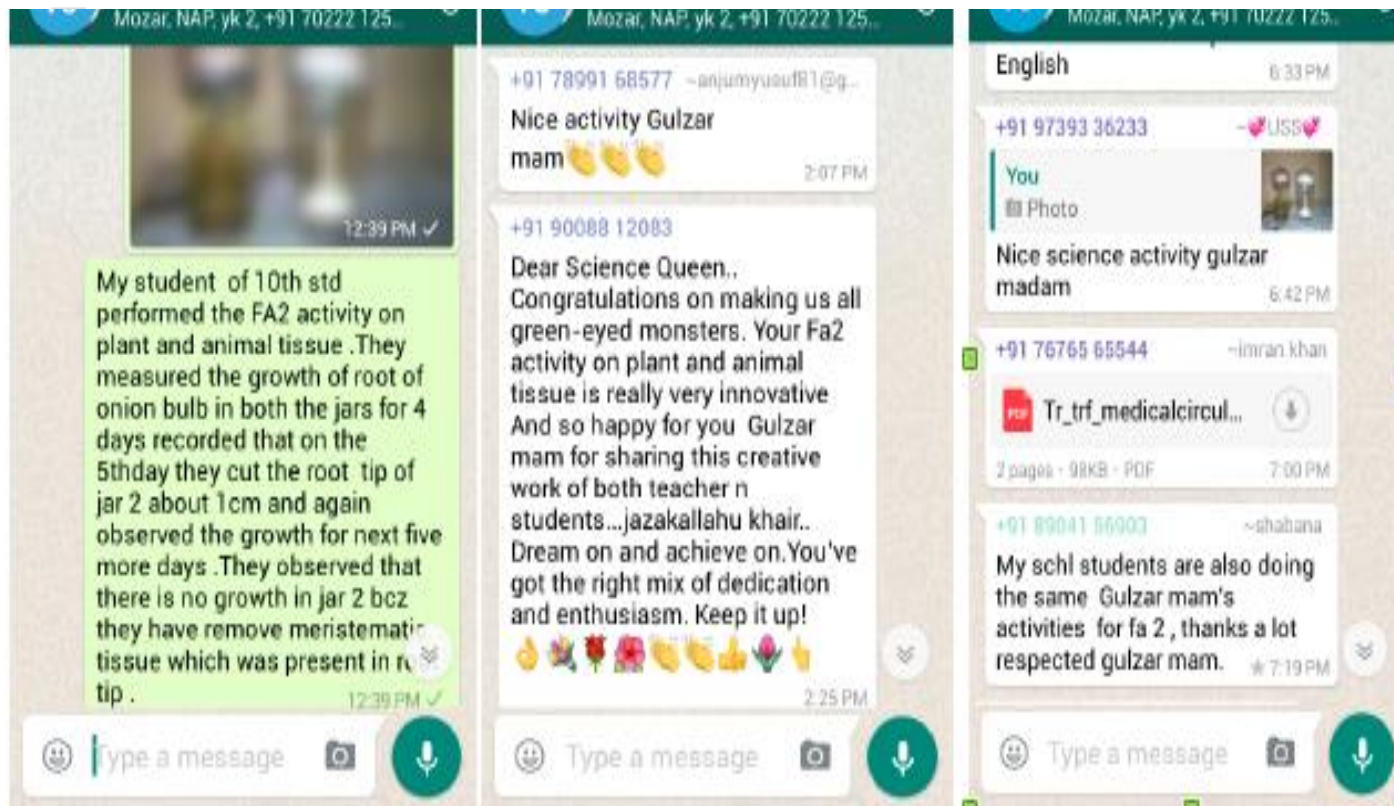
-  **Gulzar I Dambal** Dear teacher ..., here i have prepared a activity worksheet on metals chapter ... 30/10/2015 ☆
-  **Javed Balparvesh** Nice work mam 30/10/2015 ☆
-  **NAVEED AHMED PERVEEZ NAVEED AHMED** naveedjanrst2013@gmail.com via googlegroups.com 30/10/2015 ☆  

Very nice work... Dear Gulzar I dambal madam, feel proud to have such a talented and resourceful person like u... Every time u send material, it will be more beneficial for all science teachers... Just superb..... Thanku very much

...

-  **Sindhu Vk** sindhuvk74@gmail.com via googlegroups.com 30/10/2015 ☆  

Great work Mam.



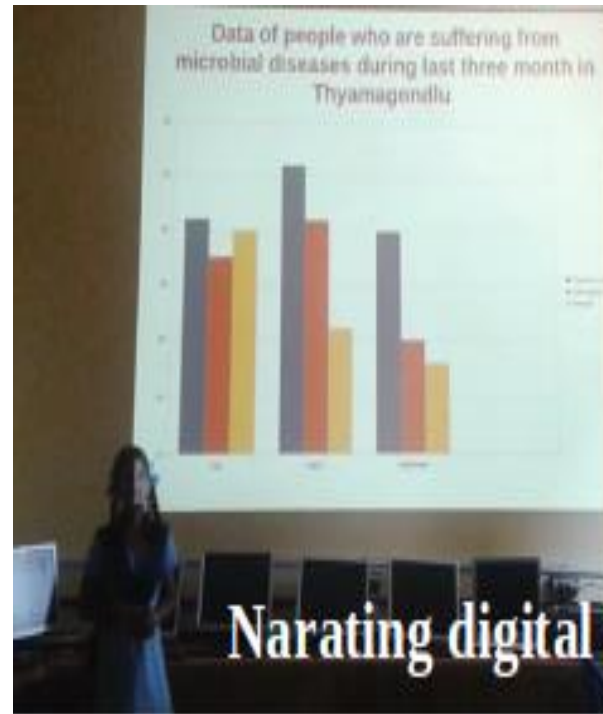
➤ **Shared Resource material in STF Group**

➤ **Got Good Responses from all over the state**

# Engaged students in Cooperative / Collaborative learning using ICT

- **Conducted Survey on Microbial Diseases**
- **Students cooperated with each other and documented a digital story**
- **Recorded interview with doctors and Panchayat members and took photographs and videos required for survey**
- **Students Prepared presentation ,edited videos and photos and prepared a digital story**
- **Collaborated their learning by narrating the same in front of whole class deepen their understanding on microbial diseases**





# Students made use of ICT skill in making working Models for Science Exhibition





**Opportunities  
For Integrating  
ICT in education  
That I Have  
Received**

# National Conference on information and Communication Technology in Education

- In 2017 Presented a poster on use of ICT tools in education at Regional Institute of Education Mysore .





# Resource Person for TALP Training to High School teachers





**Demonstrating a Science class using ICT tools to  
MDRS newly appointed teachers and to minority  
primary school teachers in RIE Bangalore**





# State level Orientation program for Science Teachers of Minority Residential School

**MINORITIES MORARJI DESAI RESIDENTIAL SCHOOL  
MEDEHALLI, CHITRADURGA (DIST)-577502**



**STATE LEVEL THREE DAYS ORIENTATION PROGRAMME FOR SCIENCE TEACHERS OF  
MINORITIES RESIDENTIAL SCHOOLS 2018-19**

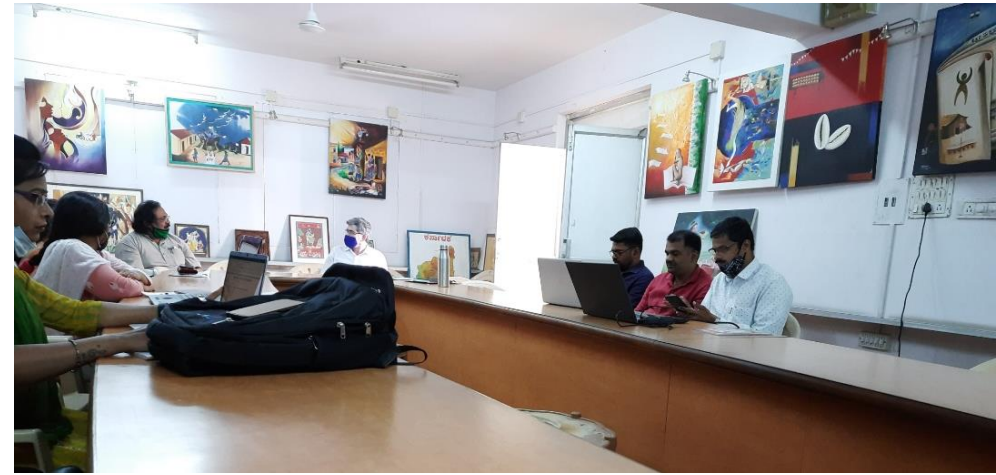
22<sup>nd</sup> Oct 2018 to 24<sup>th</sup> Oct 2018



➤ **Participated in UNICEF National Level Workshop in 2014 with collaboration of MHRD – Demonstration was organized about the use of computers in actual classroom interaction**  
**Officers from 30 states participated in this program.**

➤ **State Resource Person On Development of E content For Diksha**

➤ **Worked as KRP for Nishta training**





# Contribution to School

- **UNICEF and MHRD team** visited our school to know the impact of STF and ICT use in Class room
- With the help of Department Our School **Started technology integrated program** through which all **my colleagues got training about basics of computer and educational tools**
- Our **School Selected as IT Sector for NVEQF (National Vocational Education Qualification Framework)** – 9 th std Students were taught basic computer literacy
- Officers from Telangana state visited our School and appreciated our school for ICT integration
- Installation of **Smart classes** to our School By **ACCPL and Smart TV** By Department







## Use of ICT Made Our School As .....

- Resource center for Surrounding Schools
- Recognition By the Department
- Helped to increase our school Admission year by year



# In 2016 I Gave a presentation on ICT Integration in education In Bhopal, Madhya Pradesh

विद्यालयी शिक्षकों हेतु  
राष्ट्रीय सूचना एवं संचार प्रौद्योगिकी पुरस्कार -2016  
के चयन हेतु निर्णायक समिति की बैठक

**Jury Meeting for Selection of School Teachers for  
National ICT Award - 2016**

**19<sup>th</sup> - 23<sup>rd</sup> December - 2016**

**Regional Institute of Education (RIE)  
Bhopal (M.P.)**

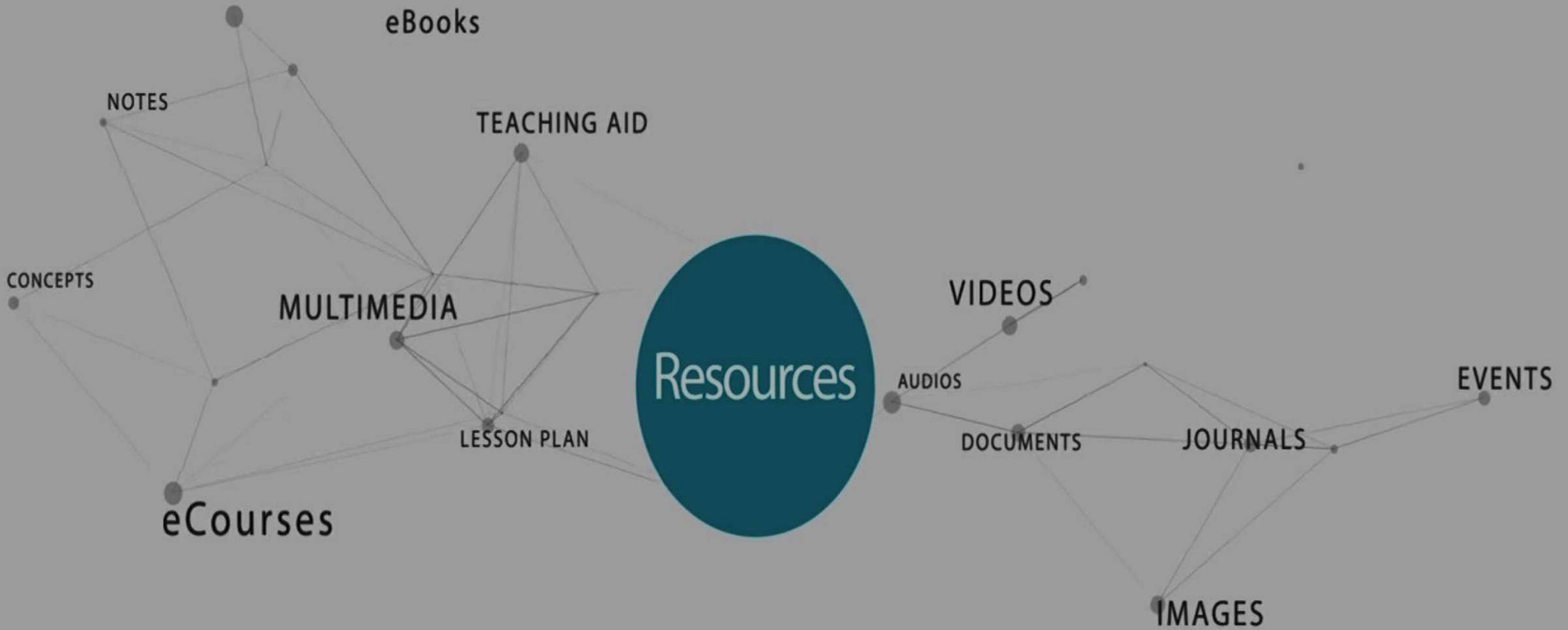


**Giving presentation in Bhopal**



**Jury members For Selection of teachers for ICT Award**







# Receiving the National ICT Award -2016 from Hon Vice President of India





# Teaching and Learning in times of Covid -19

## Use Of ICT During School Lockdowns

- Whats App groups
- Online Classes through google meet
- Google Classrooms
- Blended Lesson plans
- Created Many class videos
- Google form
- Distribution of Tab for Self learning





# Apps used during Covid -19

Different Apps were use to continue learning during Covid -19



A screenshot of the Jamboard app interface. At the top, it says "Jamboard" with a hamburger menu icon on the left and a user profile icon on the right. Below the header is a grid of six interactive cards. Each card has a title, a description, and a "Modified" date. The cards are: 1. "MC\_Kan Activity 1 : Prefe..." Modified: 4 Feb. 2. "SSK / MTs - Learner Enga..." Modified: 4 Feb. 3. "Respiratory system" Modified: 28 Jan. 4. "Gulzar I Dambal - SSK /..." Modified: 28 Jan. 5. "Gulzar I Dambal - Sample..." Modified: 28 Jan. 6. "Gulzar I Dambal - SSK /..." Modified: 28 Jan. 7. "SSK / MTs - EOL1 Jambo..." Modified: 27 Jan. 8. "VNPS / Primary st..." Modified: 17 May 2021. The cards contain various educational content like diagrams, text, and interactive elements.

A screenshot of a digital note-taking app. At the top, it says "Acid, bases and salts". Below that are tabs for "Questions", "Responses" (with a count of 38), and "Settings". The main content area shows a list of questions. The first question is "1.what is neutralization reaction ?Give example" with a red star icon. Below it is a "Short-answer text" input field. The second question is "2.Name the gas released when acids reacts with metals ? How will you test it?" with a red star icon. Below it is another "Short-answer text" input field. At the bottom, there is a toolbar with icons for adding content, saving, text formatting, image insertion, video insertion, and a list icon.

# Google Classrooms

☰ Google Classroom



10 th sta  
B

45 students



KPS THYAMAGONDLU 8 TH ...  
B

47 students



SSK / MTs - Energise Online ...  
Version 2

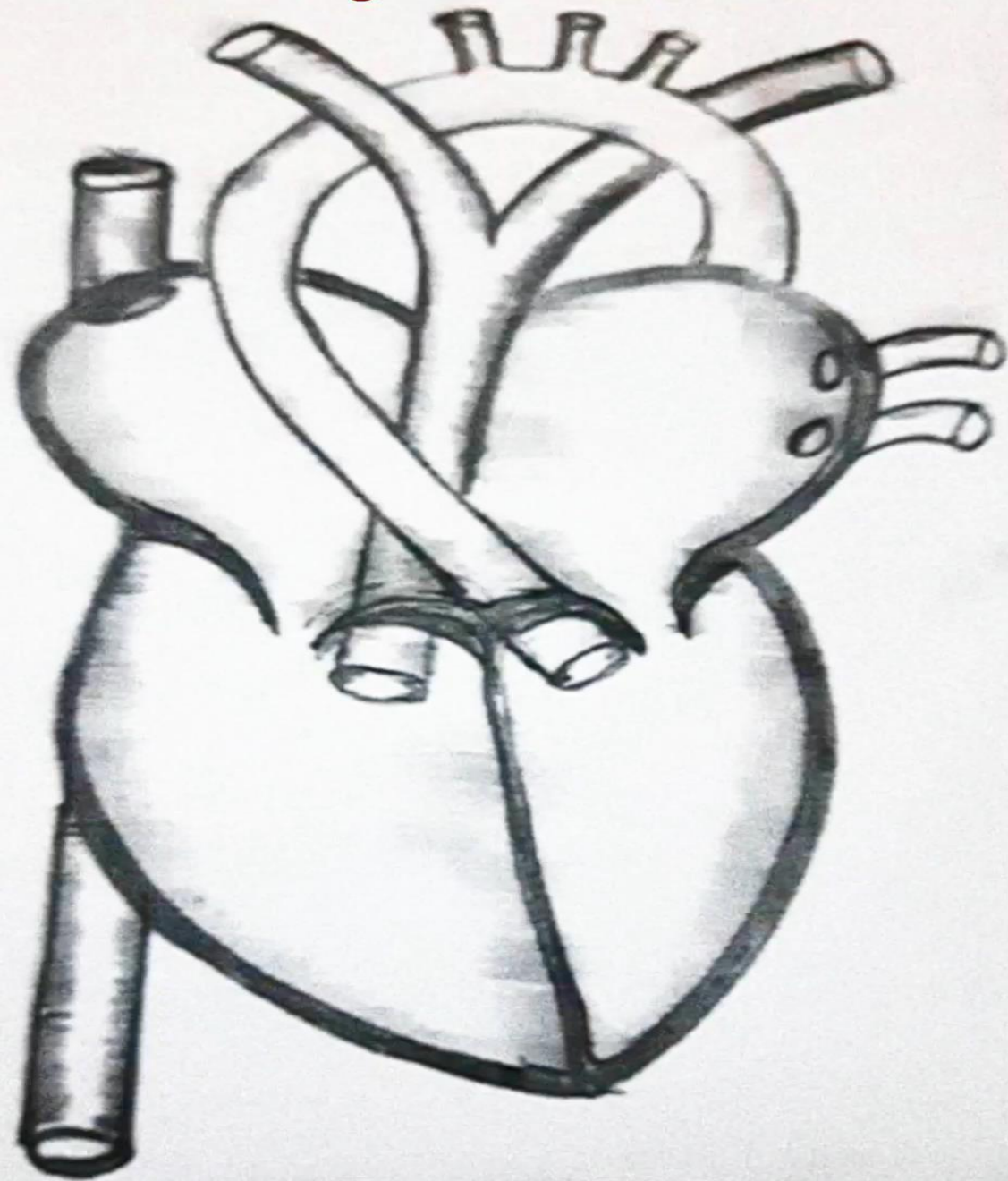
Govt Projects Karnataka





Stop Motion  
Studio

## Working of Human Heart





# Appreciation and Honour







ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಿಲ್ಲಾ ಪಂಚಾಯತ್  
ಸಾರ್ವಜನಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ  
ಉಪ ನಿರ್ದೇಶಕರ ಕಛೇರಿ, ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಿಲ್ಲೆ

## ಜಿಲ್ಲಾ ಅತ್ಯುತ್ತಮ ಶಿಕ್ಷಕ ಪ್ರಶಸ್ತಿ ಪತ್ರ

### ಗುಲ್ಜಾರ್ ಇಬ್ರಾಹಿಂ ಡಂಬಳ

ಸಹ ಶಿಕ್ಷಕರು, ಕರ್ನಾಟಕ ಪಬ್ಲಿಕ್ ಶಾಲೆ  
ತ್ಯಾಮಗೂಡು, ನೆಲಮಂಗಲ ತಾಲ್ಲೂಕು

ಇವರ ಸೇವೆಯನ್ನು ಗುರುತಿಸಿ  
ಕರ್ನಾಟಕ ರಾಜ್ಯ ಶಿಕ್ಷಕರ ಕಲ್ಯಾಣ ನಿಧಿ ವತಿಯಿಂದ

2021-2022ನೇ ಸಾಲಿನ ಜಿಲ್ಲಾ ಮಟ್ಟದ  
ಉತ್ತಮ ಶಿಕ್ಷಕರ ಪ್ರಶಸ್ತಿ ನೀಡಿ ಗೌರವಿಸಲಾಗಿದೆ

**ಪ್ರತಿಷ್ಠೆ**

ಉಪನಿರ್ದೇಶಕರು (ಆಡಳಿತ)  
ಸಾರ್ವಜನಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ  
ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಿಲ್ಲೆ

ಕನ್ನಡವೇ ಕಾಯಕ



ಕನ್ನಡವೇ ಜೀವನ

## ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಿಲ್ಲಾ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಪರಿಷತ್ತು ೧೯ನೇ ಜಿಲ್ಲಾಕನ್ನಡ ಸಮ್ಮೇಳನ

ದಿನಾಂಕ: ೧೩/೧೨/೨೦೧೭

ಸ್ಥಳ: ಸೋಂಪುರ ನೆಲಮಂದಲ ಮಠ

### ಸಾಧಕರವರಿಗೆ ನುಡಿಪತ್ರ

ಶ್ರೀಮತಿ/ಶ್ರೀ ಗುಲ್ಜಾರ್.ಇ.ಡಂಬಳ ರವರಾದ ಅವರು ಅವು ಬದುಕಿನುದ್ದಕ್ಕೂ ಸಮಾಜದ ಬೆಳಗಾಗಿ ಅವುನ್ನು  
ತೊಡಗಿಸಿಕೊಳ್ಳುವ ಮೂಲಕ ಜನರ ಸಮಸ್ಯೆಗಳನ್ನು ಹಾಗೂ ಅಂಕು ಹೊಮ್ಮುಗಳನ್ನು ಗುರುತಿಸಿ ಸಂದಾಯಿಸಿ ತರುವ ಮೂಲಕ ಸಾಮಾಜಿಕ ಕಳಕಳಿಯನ್ನು  
ಕನ್ನಡ ಸೇವೆ ಬಿಂದು ಧಾರಿದ್ಯವಿಲ್ಲ. ಅವರು ಈ ಸಾಮಾಜಿಕ ಕಳಕಳಿ ಪ್ರಯತ್ನವಿಂತೆಯಿಂದ ಇವರರಿಗೆ ಸ್ಪೂರ್ತಿಯಾಗಿದ್ದೀರಿ. ನಿಮ್ಮ ಸ್ವಯಂಪ್ರಿಯತೆಯಿಂದ  
ತೊಡಗಿಸಿಕೊಳ್ಳುವ ಮೂಲಕವಾಗಿ ಕನ್ನಡಾನಾಡಿಯ ವರಕಳಕಳಿ ವಾತಾವರಣವನ್ನು ನಿಮ್ಮನ್ನು ಜಿಲ್ಲಾ ಮತ್ತು ತಾಲೂಕು ಕನ್ನಡ ಸಾಹಿತ್ಯ ಪರಿಷತ್ತು  
೧೯ನೇ ಜಿಲ್ಲಾ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಸಮ್ಮೇಳನದಲ್ಲಿ ಮಂಡಿಸಿರುವ, ಜನ ಪ್ರತಿನಿಧಿಗಳು, ಕವಿಗಳು, ಲೇಖಕರು, ಚಿಂತಕರು ಹಾಗೂ ಅಸಂಖ್ಯಾತ  
ಸಭಕರು ಜಿಲ್ಲಾ ಮತ್ತು ತಾಲೂಕು ಸಾಹಿತ್ಯ ಪರಿಷತ್ತಿನ ವರದಾಧಿಕಾರಿಗಳ ಸಮ್ಮೇಳನದಲ್ಲಿ ಸಮ್ಮೇಳನದ ಸಭೆ ನೆನಪಿಗಾಗಿ ನಿಮ್ಮನ್ನು ಅಭಿನಂದಿಸುತ್ತಾ ಸನ್ಮಾನಿಸಲು  
ಪ್ರಯತ್ನಿಸಿದೆ. ನಿಮ್ಮ ಸಮಾಜ ಸೇವೆಯು ಇನ್ನೂ ಅಧಿಕಾರವಿಲ್ಲದವರು ನಿಮ್ಮಿಗೆ ಧಗವಂತನ ಹಾಗೂ ಕನ್ನಡಾನಾಡಿಯ ಶ್ರೀಲಕ್ಷ್ಮಿಯ ಸದಾ ಸಲಹೆಗಾರರಾದವರು ಪ್ರಾರ್ಥಿಸುವೆವು.

ಶ್ರೀಮತಿ/ಶ್ರೀ  
ಯೋಜನಾಸಮಿತಿಯ  
ವ್ಯವಸ್ಥಾಪಕಾಧ್ಯಕ್ಷರು  
(ಕೆ.ಎ.ಎ. ಬೆಂಗಳೂರು)

ಡಾ. ಪುಲಕೇಶ್ ನೆಲಮಂಗಲ  
ಸಮ್ಮೇಳನಾಧ್ಯಕ್ಷರು

ಜಿ.ಮಾ.ಸುಧಾಕರ್  
ಜಿಲ್ಲಾಧ್ಯಕ್ಷರು  
(ಕೆ.ಎ.ಎ. ಬೆಂಗಳೂರು)

NATIONAL CONFERENCE ON INFORMATION AND COMMUNICATION  
TECHNOLOGY(ICT) IN EDUCATION: 1-3, FEBRUARY, 2017



Organized by

**REGIONAL INSTITUTE OF EDUCATION, MYSURU**  
(National Council of Educational Research and Training, New Delhi)

This is to certify that Gulzar I. Dambal of  
Govt. Junior College, Thyamagondlu, Bengaluru Presented a Paper/  
Participated/Delivered a Key Note Address/Chairman a Session/was a rapporteur in the  
National Conference on Information and Communication Technology in Education held  
from 1st to 3rd February, 2017 at Regional Institute of Education, Mysuru.

Organizing Secretary

Head, DIET

Principal



## Certificate of Participation in Orientation of State Resource Groups (SRGs) on Development of eContent for DIKSHA

07-11 February 2022

This is to certify that Dr./Ms./Mr. **GULZAR I DAMBAL**,  
**Karnataka Public School Thyamagondlu Nelamangala Taluk Bengaluru**  
has participated in a five day Online Orientation Programme for State Resource Groups (SRGs) on  
Development of eContent for DIKSHA organised from 07-11 February, 2022 by Central Institute of Educational  
Technology (CIET), National Council of Educational Research and Training (NCERT), Sri Aurobindo Marg, New  
Delhi - 110016.

Prof. Indu Kumar  
Programme Coordinator

Dr. Bharti Kaushik  
Head DIET

Prof. Amarendra P. Behera  
Joint Director

ICT Award is the continuous  
Journey of learning and  
integrating ICT in education ,  
Not the Destination



# I want to express my Gratitude to .....

- **My Family and my parents**
- **Our school Ex Vice Principal N Thammaiah and also Our New principal and My staff**
- **My Students**
- **Karnataka Education Department for encouragement**
- **Department of Minority Education for Encouragement and Support**
- **S S Suchetha - National ICT awardee 2015 for Inspiration and Guidance**
- **ITFC - Smt.Ranjini and Shri Gurumurthy and team members Guiding and Supporting Me**

❖ **Special Thanks to CIET NCERT New Delhi**