



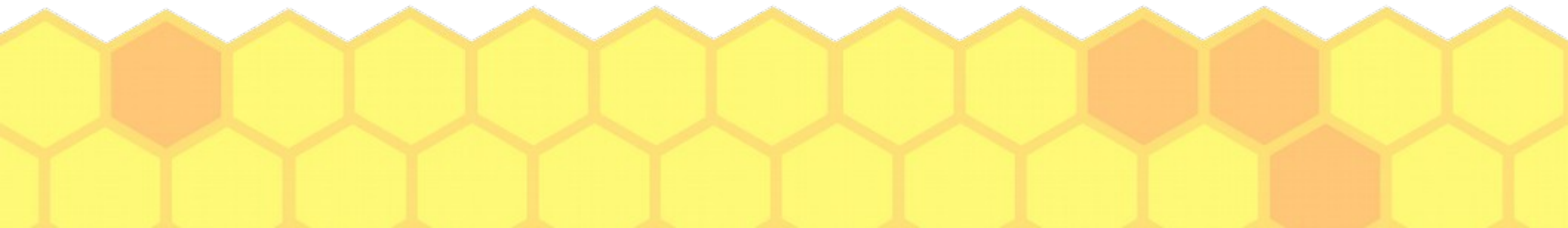
CC Open Education Platform

Lightning talk
on
“MediaWiki and Wikimedia for Open Education”

Yogesh K S, IT for Change

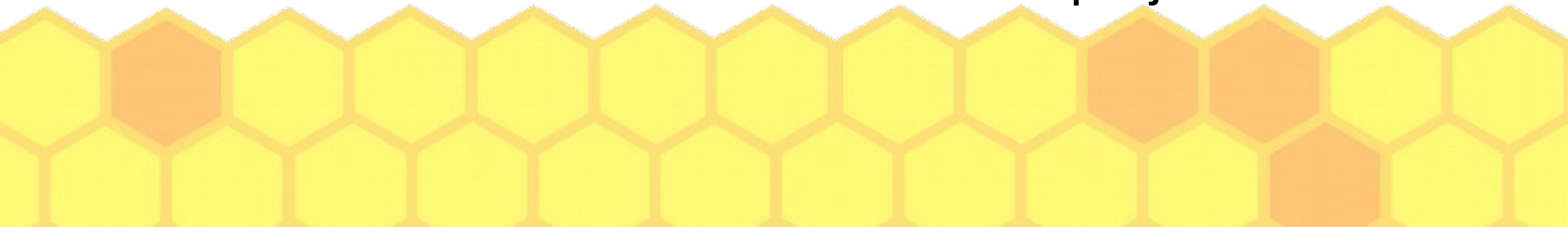
Introduction

- Free and Open Digital Technologies for Open Education.
- MediaWiki is Free and Open-Source Software
- Wikimedia (Wikipedia and its sister projects) are Free Knowledge projects
- Used across IT for Change education projects



Wikimedia projects and MediaWiki

- Wikimedia movement
 - Knowledge for everyone
 - Wikipedia, Wiktionary, Wikivoyage, etc.,..
 - Communities working on these projects
- MediaWiki
 - Free and Open Source Wiki Software
 - Feature rich and multilingual capabilities
 - Used in Wikimedia and other OER projects

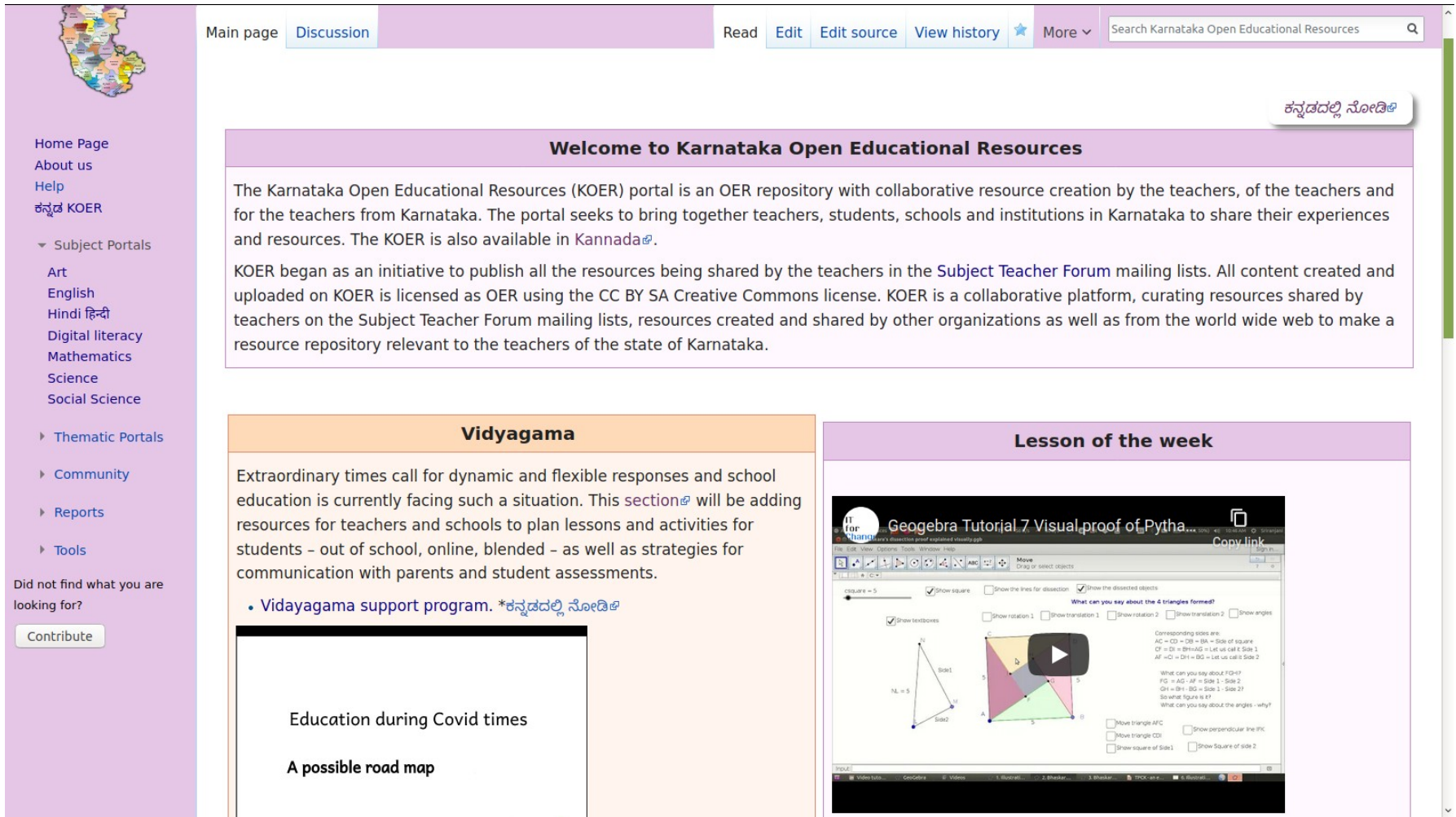


Wikis at IT for Change

- Karnataka Open Educational Resources (KOER)
- User manual and guides of FOSS educational applications
- The ICT Student textbook and Teacher handbook
- Tool-kits for teachers and teacher educators
- Schoolwikis to share the work and achievements of the schools.
- Help teachers and teacher educators communities make OER
- Integrating with Learning Management Systems.



Karnataka Open Educational Resources (KOER)



Main page [Discussion](#) Read [Edit](#) [Edit source](#) [View history](#) [More](#) Search Karnataka Open Educational Resources

[ಕನ್ನಡದಲ್ಲಿ ನೋಡಿ](#)

Welcome to Karnataka Open Educational Resources

The Karnataka Open Educational Resources (KOER) portal is an OER repository with collaborative resource creation by the teachers, of the teachers and for the teachers from Karnataka. The portal seeks to bring together teachers, students, schools and institutions in Karnataka to share their experiences and resources. The KOER is also available in [Kannada](#).

KOER began as an initiative to publish all the resources being shared by the teachers in the [Subject Teacher Forum](#) mailing lists. All content created and uploaded on KOER is licensed as OER using the CC BY SA Creative Commons license. KOER is a collaborative platform, curating resources shared by teachers on the Subject Teacher Forum mailing lists, resources created and shared by other organizations as well as from the world wide web to make a resource repository relevant to the teachers of the state of Karnataka.

Viduyagama

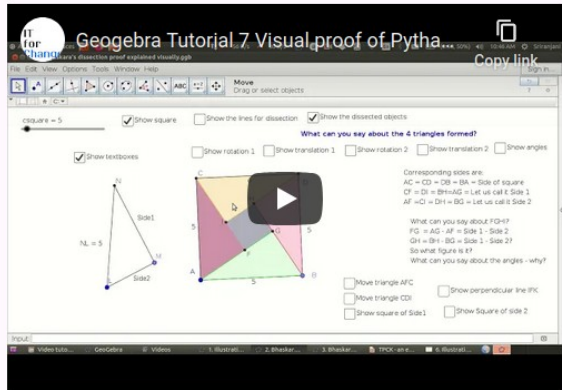
Extraordinary times call for dynamic and flexible responses and school education is currently facing such a situation. This [section](#) will be adding resources for teachers and schools to plan lessons and activities for students - out of school, online, blended - as well as strategies for communication with parents and student assessments.

- [Viduyagama support program](#). *[ಕನ್ನಡದಲ್ಲಿ ನೋಡಿ](#)

Education during Covid times

A possible road map

Lesson of the week



Geogebra Tutorial 7 Visual proof of Pyth...

What can you say about the 4 triangles formed?

Corresponding sides are:
 $AC = CD = DB = BK = \text{Side of square}$
 $CF = DI = BH = AG = \text{Let us call it Side 1}$
 $AF = CI = DH = BG = \text{Let us call it Side 2}$

What can you say about FGH ?
 $FG = AG = AF = \text{Side 1} = \text{Side 2}$
 $GH = DH = BG = \text{Side 1} = \text{Side 2}$
So what figure is FGH ?
What can you say about the angles - why?

Karnataka Open Educational Resources (KOER)

English Log in



Main page
ಪ್ರವೇಶದ್ವಾರ
Help
ನೆರವಾಗಿ
English KOER

ವಿಷಯ
ಪ್ರವೇಶದ್ವಾರಗಳು
ಕನ್ನಡ
ಇಂಗ್ಲೀಷ್/English
ಹಿಂದಿ/Hindi
ಗಣಿತ
ವಿಜ್ಞಾನ
ಸಮಾಜ ವಿಜ್ಞಾನ
ಕಲೆ
ಐಸಿಟಿ ಜ್ಞಾನ
ವಸ್ತುವಿಷಯ
ಪ್ರವೇಶದ್ವಾರಗಳು
ಅಂತರ್ಜಾಲ ಕೋರ್ಸ್
ಸಂಪನ್ಮೂಲಗಳು

Main page Discussion

Read View source View history

Search ಕರ್ನಾಟಕ ಮುಕ್ತ ಶೈಕ್ಷಣಿಕ ಸಂಪನ್ಮೂಲಗಳು

ಕರ್ನಾಟಕ ಮುಕ್ತ ಶೈಕ್ಷಣಿಕ ಸಂಪನ್ಮೂಲಗಳು

ಪ್ರಸ್ತುತ ಕನ್ನಡ ಆವೃತ್ತಿಯು ೨೦೨೨ ಲೇಖನಗಳನ್ನು ಹೊಂದಿದೆ

[See in English](#)

ಶಿಕ್ಷಕರಿಂದ ಶಿಕ್ಷಕರಿಗಾಗಿ ಸಹಯೋಜಿತ ಸಂಪನ್ಮೂಲ ರಚನೆ

ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಶಿಕ್ಷಕರಿಗಾಗಿ ವೆಬ್ ಸೈಟ್

ಕರ್ನಾಟಕ ಮುಕ್ತ ಶೈಕ್ಷಣಿಕ ಸಂಪನ್ಮೂಲವು (Karnataka Open Educational Resources) ಒಂದು ಶೈಕ್ಷಣಿಕ ಸಂಪನ್ಮೂಲದ ಭಂಡಾರವಾಗಿದ್ದು ಬೋಧನೆಯಲ್ಲಿ ತೊಡಗಿಸಿಕೊಂಡ ಶಿಕ್ಷಕರುಗಳ ವೃತ್ತಿಬೆಳವಣಿಗೆಯ ಜೊತೆಗೆ ತರಗತಿಯ ಪ್ರಕ್ರಿಯೆಗಳನ್ನು ಉತ್ತಮಪಡಿಸಿಕೊಳ್ಳಲು ಸಹಕಾರಿಯಾಗಿದೆ. ಇದು ಶಿಕ್ಷಕ ಸಮುದಾಯದಿಂದಲೇ ರಚನೆಯಾಗಿದ್ದು ಇದರ ವಿಮರ್ಶೆ, ಸರಿಪಡಿಸುವಿಕೆ, ಡಿಜಿಟಲ್ ಪಠ್ಯಕ್ರಮದ ಪ್ರಕಟಣೆಗಳ ಕ್ರಿಯೆಯಲ್ಲಿ ಶಿಕ್ಷಕರೇ ನಿರಂತರವಾಗಿ ಪಾಲ್ಗೊಳ್ಳಲಿದ್ದಾರೆ. ಈ ಸಂಪನ್ಮೂಲ ಭಂಡಾರವನ್ನು ವಿಷಯ ಶಿಕ್ಷಕರ ವೇದಿಕೆಯಲ್ಲಿ ಸಂಗ್ರಹಿಸಿಡಲಾಗಿದ್ದು, ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಶಿಕ್ಷಕರುಗಳು ಇದನ್ನು ಇನ್ನೂ ಹೆಚ್ಚು ಬೆಳೆಸಬಹುದಾಗಿದೆ.

ಇತ್ತೀಚಿನ ಶಿಕ್ಷಕರ ಶೈಕ್ಷಣಿಕ ಕಾರ್ಯಕ್ರಮಗಳು

1. ಬೋಧಕ ಶಿಕ್ಷಕರ ಸಮುದಾಯದ ಮೂಲಕ ಸಹವರ್ತಿ ಕಲಿಕೆ ಮತ್ತು ಸ್ವ-ಕಲಿಕೆಗಾಗಿ ವಿದ್ಯುನ್ಮಾನ ತಂತ್ರಜ್ಞಾನ ಬಳಕೆ ಬಗ್ಗೆ ಡಯಟ್ ಪ್ರಾಂಶುಪಾಲರಿಗೆ ICT ಆಧಾರಿತ ಸಾಮರ್ಥ್ಯಭಿವೃದ್ಧಿ ಕಾರ್ಯಾಗಾರ
2. ಬೋಧಕ ಶಿಕ್ಷಕರ ಸಮುದಾಯದ ಮೂಲಕ ಸಹವರ್ತಿ ಕಲಿಕೆ ಮತ್ತು ಸ್ವ-ಕಲಿಕೆಗಾಗಿ ವಿದ್ಯುನ್ಮಾನ ತಂತ್ರಜ್ಞಾನ ಬಳಕೆ ಬಗ್ಗೆ ಡಯಟ್ ಡಯಟ್ ನೋಡಲ್ ಅಧಿಕಾರಿಗಳಿಗೆ ICT ಆಧಾರಿತ ಸಾಮರ್ಥ್ಯಭಿವೃದ್ಧಿ ಕಾರ್ಯಾಗಾರ

ಇತ್ತೀಚಿನ ಲೇಖನಗಳು

- ಮಕ್ಕಳು ಮತ್ತು ಶಿಕ್ಷಣದ ಬಗ್ಗೆ ಬಹಳ ಉಪಯುಕ್ತ ಮಾಹಿತಿ ಹೊಂದಿರುವ [ವಿಕಾಸ್‌ಪೀಡಿಯಾ](#)
- [ಶ್ರೀ ಡಾ.ಹೆಚ್.ಬಿ.ಚಂದ್ರಶೇಖರ್ ಸರ್](#) ರವರ ಶಿಕ್ಷಣ ಚಿಂತನೆಗಳುಳ್ಳ ಲೇಖನ [ಪುಟ್ಟ ರಾಷ್ಟ್ರದ ಶಿಕ್ಷಣ ಪಾಠ](#)
- [ಡಿ.ಎಸ್.ಇ.ಆರ್.ಟಿ ತರಬೇತಿ ಸಾಹಿತ್ಯಗಳು](#)
- [ಶಿಕ್ಷಣದ ಮೂಲಕ ಸಂಪನ್ಮೂಲಗಳು](#)

Explore an application

Yogi Talk Preferences Watchlist Contributions Log out

Page **Discussion** Read Edit Edit source View history More

Search Open Educational Resource Go

Explore an application

ಕನ್ನಡದಲ್ಲಿ ನೋಡಿಹಿ ಹಿಂದಿಹಿ

Welcome to the world of free and open software applications

The digital world is full of offerings, software applications, web tools, digital resources and is open to teachers and students to dive into it and learn. Such learning is not only becoming familiar and comfortable and competent in the use of different digital methods, but also strengthening ones own capabilities for self-learning and peer based learning.

This page gives you an organized representation of the different software applications used in the textbook, organized by the themes of ICT. You can learn every tool as and when you require its functions. You can also independently explore the applications as well! This section intentionally includes many applications, which you may learn at your pace and inclination!

Basic digital literacy <ul style="list-style-type: none">Explore a computerLearn UbuntuLearn Tux TypingLearn Tux PaintLearn Image ViewerLearn VLC Player	ICT for connecting and learning <ul style="list-style-type: none">Learn FirefoxLearn ThunderbirdLearn MoodleLearn BigBlueButton
ICT for generic resource creation (text)	ICT for generic resource creation (graphic)

Did not find what you are looking for?

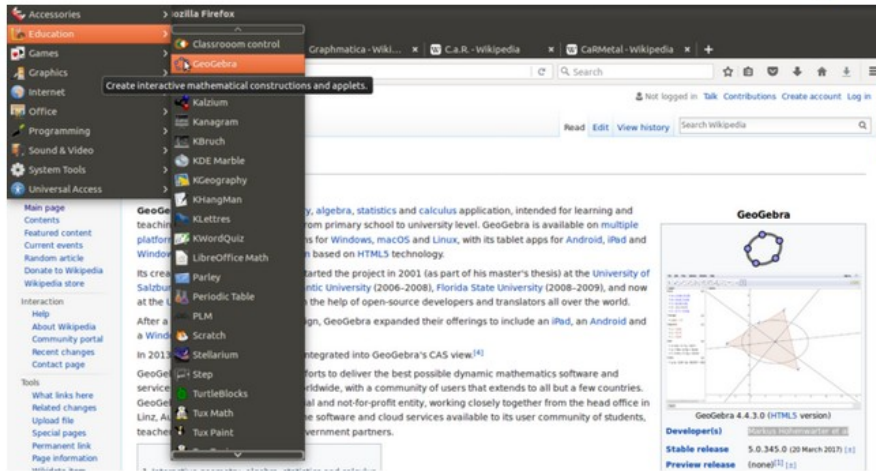
https://teacher-network.in/OER/index.php/Explore_an_application

Multilingual Handouts

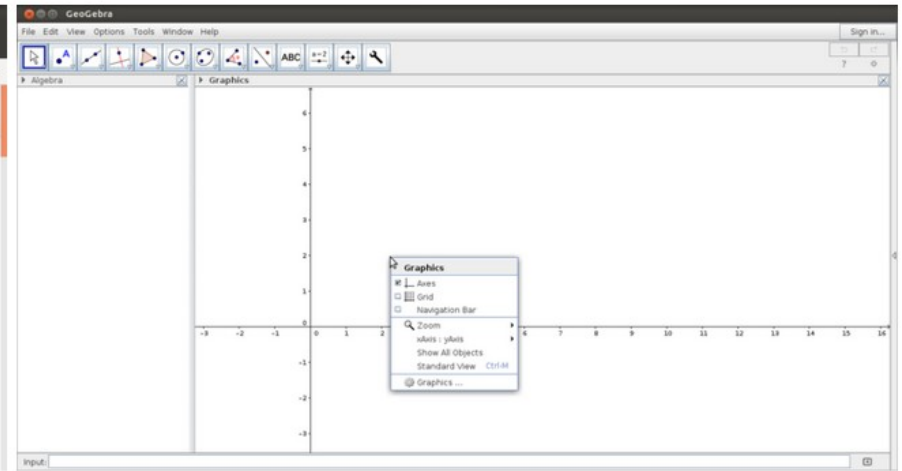
Working with the application [edit | edit source]

Getting familiar with the Geogebra interface [edit | edit source]

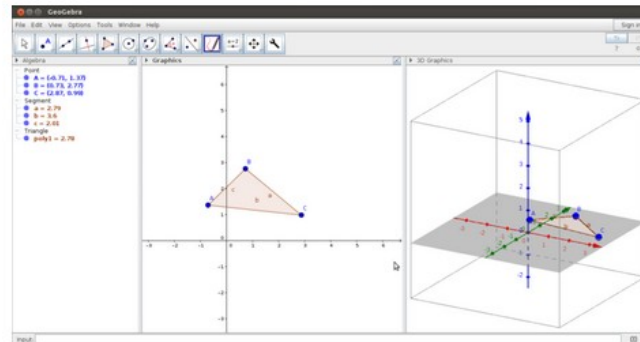
Geogebra interface



Opening Geogebra



Defining the graphical interface



Three panes in Geogebra window

The above images show you the Geogebra window. After opening Geogebra, you will see the application window as in the second image. The user can define the graphics view in terms of the axes, the grid, scale of the axes, etc. From the View option you can define the number of views you want to see - in

Multilingual Handouts

जियोजेब्रा सीखिए - मुक्त शैक्षणिक संसाधन - Mozilla Firefox

File Edit View History Bookmarks Tools Help

RIESI - Goo... RIESI - ITfC... General Dis... Problem lo... Course: Co... My Drive - C... DIKSHA - G... Webmail - B... IT for Chan... श्रेणी:अनुप्रयोग का जियोजेब्रा सीखिए x +

https://teacher-network.in/OER/hi/index.php/जियोजेब्रा_सीखिए

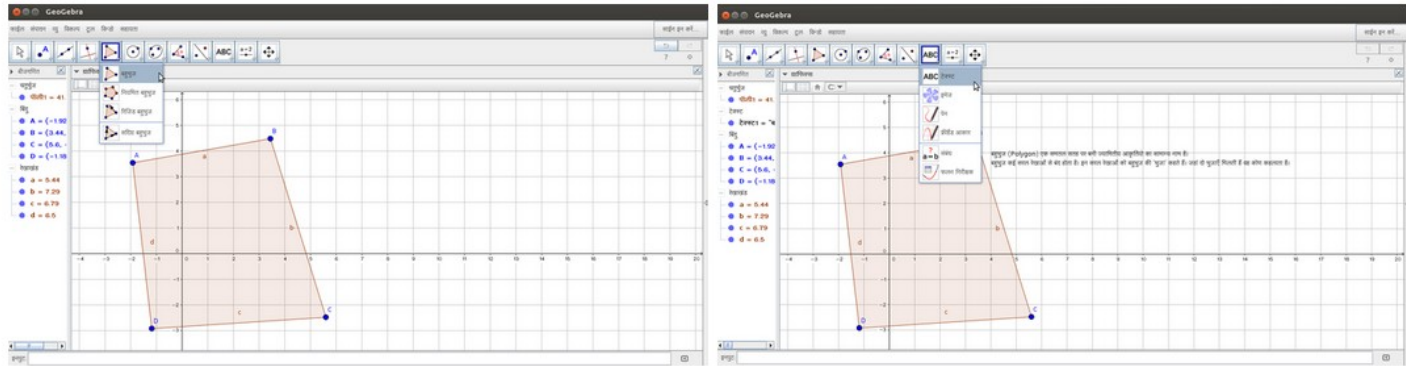
Most Visited Karnataka Open Edu... Google Docs Gmail login Foundation Publicati... Rajasthan STF tracker...

और एक बिंदु के इर्द गिर्द भी घुमाकर इसे स्थानांतरित कर सकते हैं।

- बिंदु आलेखन:जियोजेब्रा ग्राफिक्स पैड पर बिंदु आलेखन करने के विभिन्न तरीके हैं। आप ग्राफिक्स व्यू पर कहीं भी एक बिंदु प्लॉट कर सकते हैं—यह एक मुक्त बिंदु है। आप किसी चित्र पर या दो चित्रों के छेड़छाड़ के रूप में भी आलेखन कर सकते हैं; दोनों मामलों में बिंदु एक आश्रित वस्तु है।
- रेखाएं बनाना :रेखाओं और खंडों के लिए मेनू भी कई निर्माण—रेखाखंड ,रेखाएं,किरणों और वैक्टरों की अनुमति देता है।
- एकाधिक रेखाएं खींचना:जियोजेब्रा में कई लाइनें भी खींची जा सकती हैं। समांतर रेखाएं,लंबवत रेखाएं,कोण द्विभाजक और लंबवत द्विभाजक तैयार किए जा सकते हैं।
- वृत्त बनाना –आप इस उपकरण का उपयोग कर वृत्त ,वृत्तखंड और चाप खींच सकते हैं।

दूल बार का उपयोग करना – उन्नत सुविधाएं [सम्पादन | स्रोत सम्पादित करें]

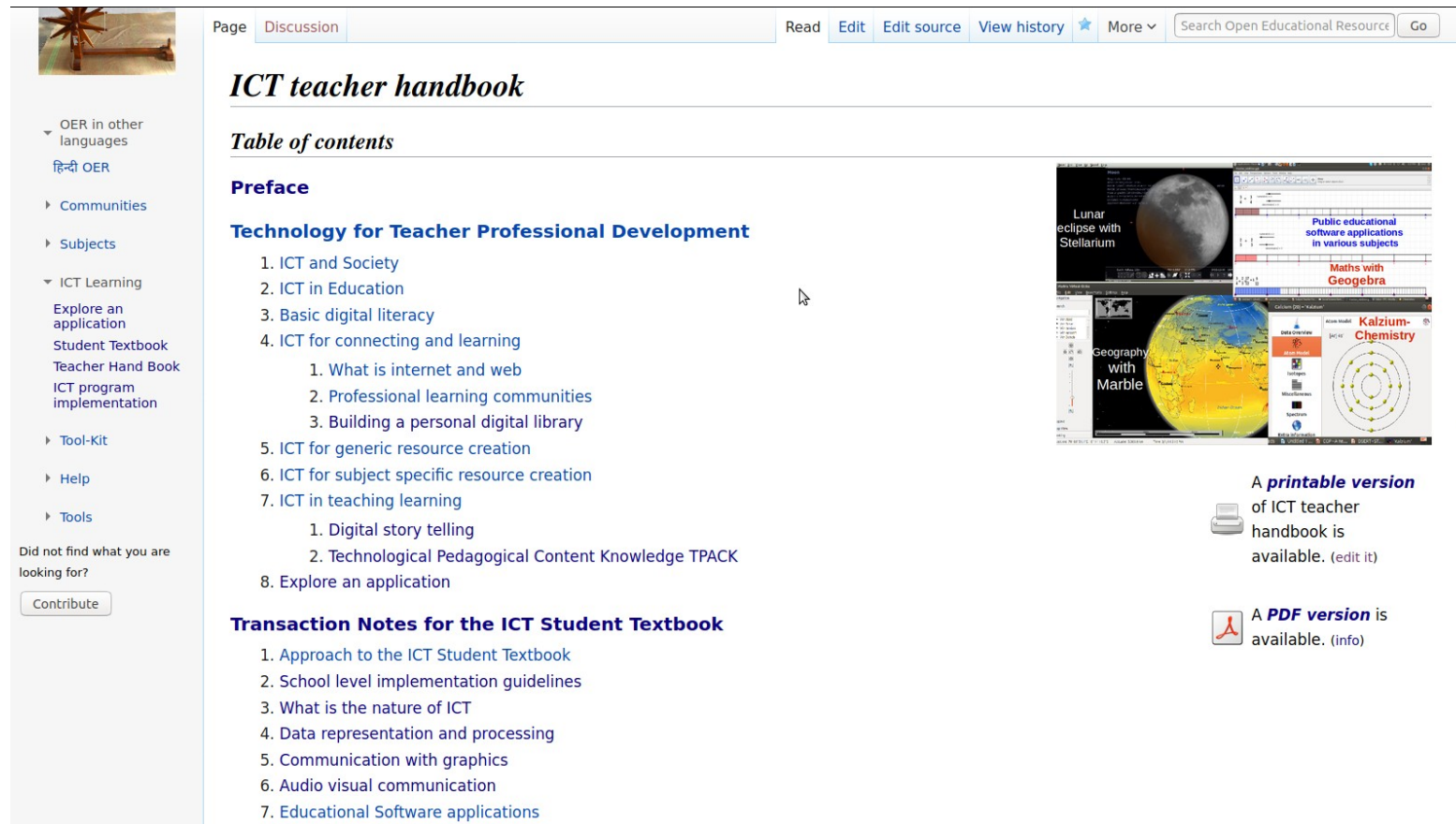
दूल बार की अधिक विशेषताएं



https://teacher-network.in/OER/hi/index.php/चित्र:12.Creating_a_polygon_hi.png

एक टेक्स्टबॉक्स जोड़ना

ICT Teacher Handbook using Wikibook



The screenshot shows the Wikibook page for the ICT teacher handbook. The page title is "ICT teacher handbook". The navigation bar includes "Page", "Discussion", "Read", "Edit", "Edit source", "View history", "More", and a search box. The left sidebar contains a navigation menu with categories like "OER in other languages", "Communities", "Subjects", "ICT Learning", "Tool-Kit", and "Help". The main content area features a "Table of contents" with sections for "Preface", "Technology for Teacher Professional Development", and "Transaction Notes for the ICT Student Textbook". The "Technology for Teacher Professional Development" section lists 8 items, including "ICT and Society", "ICT in Education", "Basic digital literacy", "ICT for connecting and learning", "ICT for generic resource creation", "ICT for subject specific resource creation", "ICT in teaching learning", and "Explore an application". The "Transaction Notes for the ICT Student Textbook" section lists 7 items, including "Approach to the ICT Student Textbook", "School level implementation guidelines", "What is the nature of ICT", "Data representation and processing", "Communication with graphics", "Audio visual communication", and "Educational Software applications". On the right side, there are four small images showing educational software: "Lunar eclipse with Stellarium", "Public educational software applications in various subjects", "Maths with Geogebra", and "Kalzium-Chemistry". Below these images, there are two links: "A printable version of ICT teacher handbook is available. (edit it)" and "A PDF version is available. (info)".

Page [Discussion](#) [Read](#) [Edit](#) [Edit source](#) [View history](#) [More](#)

ICT teacher handbook

Table of contents

Preface

Technology for Teacher Professional Development

1. ICT and Society
2. ICT in Education
3. Basic digital literacy
4. ICT for connecting and learning
 1. What is internet and web
 2. Professional learning communities
 3. Building a personal digital library
5. ICT for generic resource creation
6. ICT for subject specific resource creation
7. ICT in teaching learning
 1. Digital story telling
 2. Technological Pedagogical Content Knowledge TPACK
8. Explore an application

Transaction Notes for the ICT Student Textbook

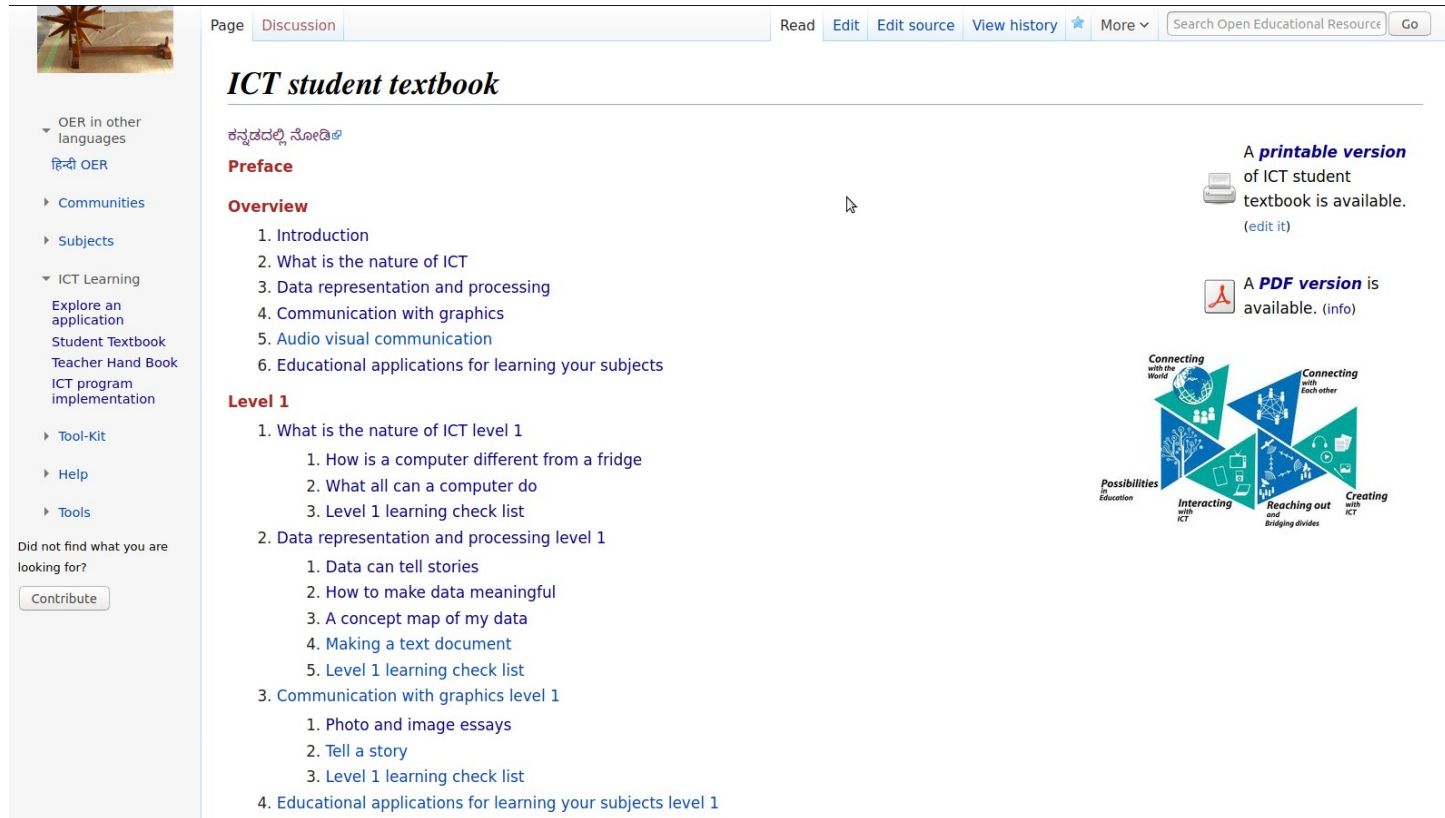
1. Approach to the ICT Student Textbook
2. School level implementation guidelines
3. What is the nature of ICT
4. Data representation and processing
5. Communication with graphics
6. Audio visual communication
7. Educational Software applications

A *printable version* of ICT teacher handbook is available. (edit it)

A *PDF version* is available. (info)

https://teacher-network.in/OER/index.php/ICT_teacher_handbook

ICT Student Textbook using Wikibook



The screenshot shows a web browser displaying the Wikibook page for 'ICT student textbook'. The page is in Kannada and includes a navigation menu on the left, a main content area with a table of contents, and a sidebar with additional resources.

Page Discussion Read Edit Edit source View history More Search Open Educational Resource Go

ICT student textbook

ಕನ್ನಡದಲ್ಲಿ ನೋಡಿ

Preface

Overview

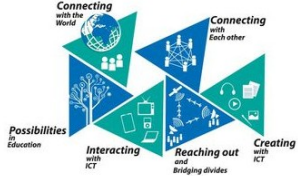
1. Introduction
2. What is the nature of ICT
3. Data representation and processing
4. Communication with graphics
5. Audio visual communication
6. Educational applications for learning your subjects

Level 1

1. What is the nature of ICT level 1
 1. How is a computer different from a fridge
 2. What all can a computer do
 3. Level 1 learning check list
2. Data representation and processing level 1
 1. Data can tell stories
 2. How to make data meaningful
 3. A concept map of my data
 4. Making a text document
 5. Level 1 learning check list
3. Communication with graphics level 1
 1. Photo and image essays
 2. Tell a story
 3. Level 1 learning check list
4. Educational applications for learning your subjects level 1

A printable version of ICT student textbook is available. (edit it)

A PDF version is available. (info)



Connecting with the World
Connecting with Each other
Reaching out and Bridging divides
Interacting with ICT
Creating with ICT
Possibilities Education

Tool-kits for teachers and teacher educators

*A Professional Learning Community Approach for Teacher Development and OER creation
- A toolkit*

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Preface

Introduction to the tool-kit

PLC-OER model of TPD

Planning the PLC-OER program

Establishing ICT infrastructure

Building Professional Learning Communities

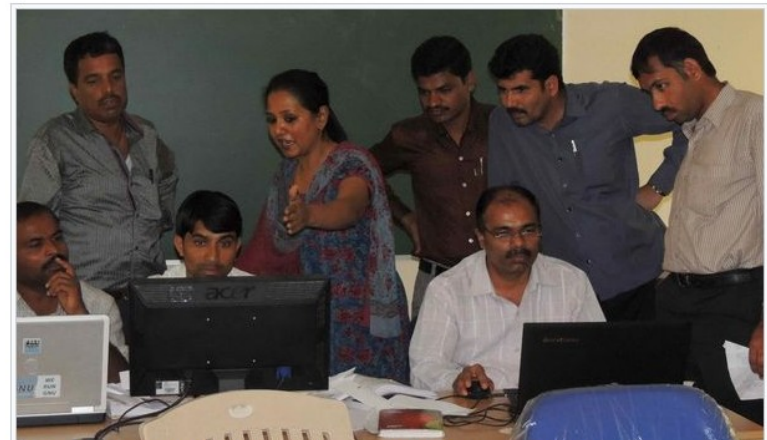
Developing capabilities for OER creation

Institutionalizing the program

Conclusions

References

 A **PDF version** is available. ([info](#))



Collaborative mathematics material making, Subject Teacher Forum workshop, Bengaluru Urban DIET, Karnataka

[https://teacher-network.in/OER/index.php/
A_Professional_Learning_Community_Approach_for_Teacher_Development_and_OER_creati
on_-_A_toolkit](https://teacher-network.in/OER/index.php/A_Professional_Learning_Community_Approach_for_Teacher_Development_and_OER_creation_-_A_toolkit)

Tool-kits for teachers and teacher educators

Teachers' toolkit for creating and re-purposing OER using FOSS

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Preface

A toolkit for creating and re-purposing OER using FOSS tools

Installing Ubuntu - creating the FOSS platform

Text OER

Image and animation OER

Audio and Video OER

File formats

Publishing OER

Annexure



A **printable version** of Teachers' toolkit for creating and re-purposing OER using FOSS is available. ([edit it](#))



A **PDF version** is available. ([info](#))



A **ODF version** is available. ([info](#))

https://teacher-network.in/OER/index.php/Teachers%27_toolkit_for_creating_and_re-purposing_OER_using_FOSS

Schoolwikis

ಕನ್ನಡ KOER

Subject Portals

- Art
- English
- Hindi हिन्दी
- Digital literacy
- Mathematics
- Science
- Social Science

Thematic Portals

Community

Reports

Tools

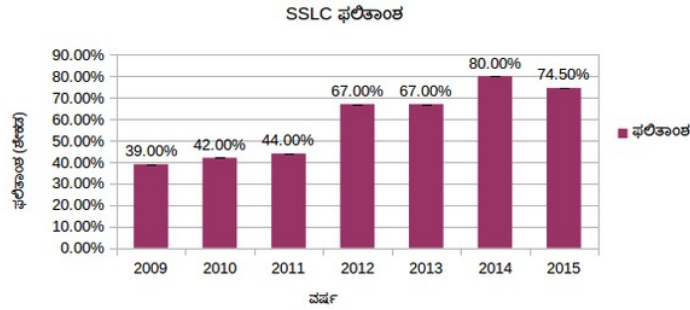
Did not find what you are looking for?

Contribute

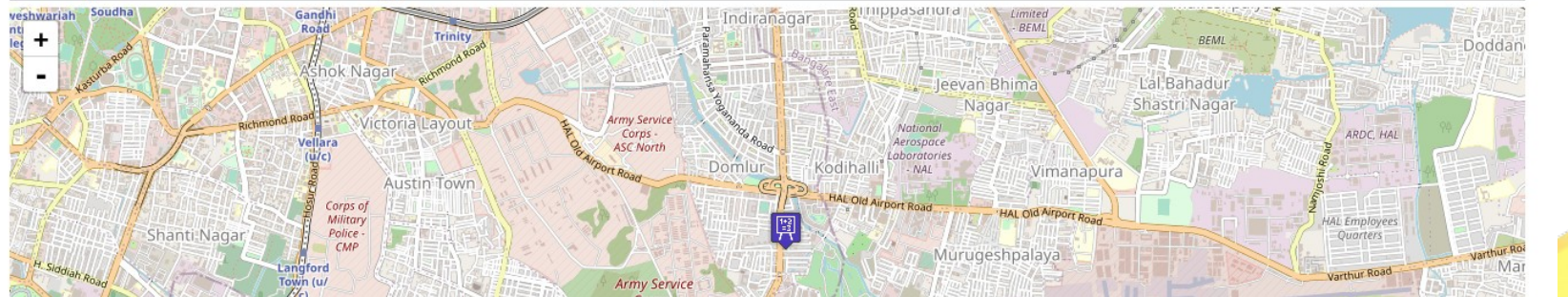
ನಮ್ಮ ಶಾಲೆಯ ಬಗ್ಗೆ / *About GHS Dommaluru* [edit | edit source]

ನಮ್ಮ ಶಾಲೆಯು ಬೆಂಗಳೂರಿನ ಪ್ರತಿಷ್ಠಿತ ಬಡಾವಣೆಗಳಲ್ಲಿ ಒಂದಾದ ದೊಮ್ಮಲೂರಿನಲ್ಲಿ ನೆಲೆಗೊಂಡಿದೆ. ಇದು 01-07-1982 ರಲ್ಲಿ ಪ್ರೌಢಶಾಲೆಯಾಗಿ ಆರಂಭವಾಗಿ 21-06-1996ರಲ್ಲಿ ಪದವಿ ಪೂರ್ವ ಕಾಲೇಜು ಸಹ ಇದೇ ಸಮುಚ್ಚಯದಲ್ಲಿ ಆರಂಭವಾಗಿ ಸಂಯುಕ್ತ ಪದವಿ ಪೂರ್ವ ಕಾಲೇಜಾಯಿತು.ನಂತರ 22-03-2010ರಲ್ಲಿ ಪ್ರತ್ಯೇಕವಾಗಿ ಸ್ವತಂತ್ರ ವಿಭಾಗಗಳಾಗಿ ಕಾರ್ಯನಿರ್ವಹಿಸುತ್ತಿದೆ.ವಿಶಾಲವಾದ ಮೈದಾನದ ಸೌಲಭ್ಯವನ್ನು ಹೊಂದಿದ್ದು ಮಕ್ಕಳ ಸಹ ಪಠ್ಯ ಚಟುವಟಿಕೆಗಳಿಗೂ ಪೂರಕವಾಗಿದೆ.ಮುಖ್ಯರಸ್ತೆಗೆ ಹತ್ತಿರದಲ್ಲಿದ್ದು (Outer Ring Road) ಸಾರಿಗೆ ವ್ಯವಸ್ಥೆಯೂ ಸಹ ಮಕ್ಕಳ ಪ್ರಯಾಣಕ್ಕೆ ಅನುಕೂಲವಾಗಿದೆ.ಇಲ್ಲಿ ಕನ್ನಡ ಮತ್ತು ಆಂಗ್ಲ ಎರಡೂ ಮಾಧ್ಯಮದಲ್ಲಿ ಕಲಿಸಲಾಗುತ್ತಿದೆ. ಜೊತೆಗೆ ತೋಟಗಾರಿಕೆ, ಕ್ರಾಫ್ಟ್,ಯಂತ್ರಕ ವಿಶೇಷ ಕಲಿಕೆಗಳನ್ನು ಪಠ್ಯಕ್ರಮದ ಜೊತೆ ಕಲಿಸಲಾಗುತ್ತಿದೆ. ಬೆಂಗಳೂರಿನ ದಕ್ಷಿಣ ವಿಭಾಗದಲ್ಲಿ SSLC ಫಲಿತಾಂಶದಲ್ಲಿ ಉತ್ತಮ ಫಲಿತಾಂಶ ಪಡೆಯುತ್ತಿರುವ ಸರ್ಕಾರಿ ಶಾಲೆಗಳಲ್ಲಿ ಇದು ಸಹ ಒಂದು ಎಂಬ ಹೆಗ್ಗಳಿಕೆಗೆ ಪಾತ್ರವಾಗಿದೆ.,

ದೊಮ್ಮಲೂರು ಶಾಲಾ ಫಲಿತಾಂಶದ ವಿವರ



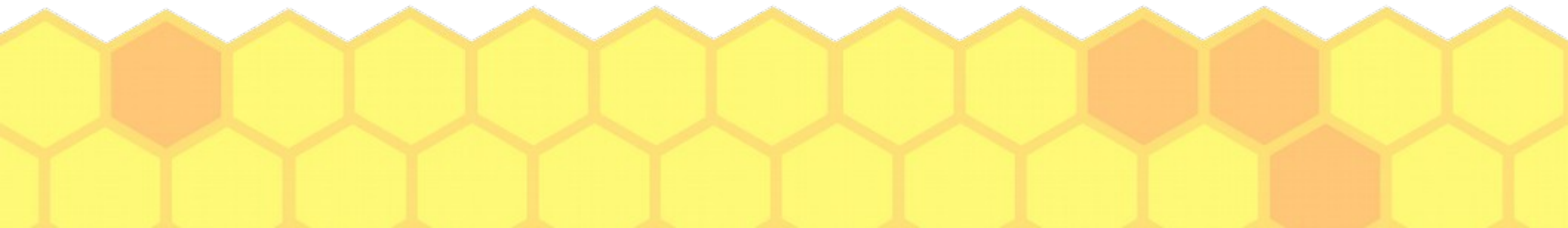
ದೊಮ್ಮಲೂರು ಶಾಲೆ ನೆಲೆಸಿರುವ ನಕ್ಷೆ / *School Location Map* [edit | edit source]



https://karnatakaeducation.org.in/KOER/en/index.php/GHS_Dommaluru

Wikimedia free knowledge projects

- Wikipedia and its sister projects
 - Develop, revise and publish OER from Wikimedia projects including Kannada Wikipedia by student teachers.
 - Offline Wikipedia of English and regional languages for schools.
 - Multilingual offline Indic dictionary based on Wiktionary.



Wikimedia free knowledge projects

Wiktionary

The screenshot shows the Wiktionary interface for the word "education". The browser address bar shows "education - GoldenDict". The page is divided into sections for different languages: "From विक्षनरी" (English), "From शिक्षा" (Hindi), and "From విక్షనరి" (Telugu). Each section shows the word "education" and its meaning in that language. A sidebar on the right lists "Found in Dictionaries" and "Favorites".

Multilingual offline Indic dictionary on GoldenDict

Wikipedia

The screenshot shows the Wikipedia interface for the article "John Dewey". The page is in Kannada. The English title "John Dewey" is shown in a box, and the Kannada title "ಜಾನ್ ಡ್ಯೂಯಿ" is shown next to it. The article content is in Kannada. A sidebar on the right shows "Issues" and "1 warning".

Content Translation tool used to translate an article from English to Kannada Wikipedia

Conclusion

- Wikis provide ways to democratize education
- Enables participation in knowledge construction activities collaboratively.
- Huge repository of OER in Wikimedia Free Knowledge projects
- Developing resources in Indian languages will increase the OER availability in Indian languages.



Thank you!

Q & A

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