E³ English eLanguage Lab

A FOSS based, Easy to Adopt, Free to Use & Deploy Anywhere Digital Multimedia Language Lab Software

www.ecube.kite.kerala.gov.in

Aims

- To provide an enjoyable digital platform to enhance and enrich the English proficiency of students.
- To provide practical experience to students to listen, speak, read & write English in an integrated manner.
- To facilitate the learning and development of students through assessment, feedback and mentoring.

Components of E³ English

E-Library
A repository of children's literature books in the Samagra web portal for promoting the reading, writing and communication skills of students.

E-Broadcast
Weekly broadcast of learner centered activity based and interactive English programmes screened on KITE -VICTERS Channel.

E-Language Lab
Space for students to access computer based interactive digital multimedia software content.

Log-in screen

Need and Genesis

We have Applications for Science, Maths, Social Science etc

But, no existing FOSS based Language Lab software

Constraints of Proprietary Language Lab Software

1. Against Policy.

2. High Cost (Rs.320 Cr-1600 Cr)

3. Restricted access.

4. Privacy issues

5. Not in tune with Curriculum and LOs

Prior attempts

Developed Online Language Lab software and piloted in 14 DIETs in 2018-19.
- Functions only in stable internet.
- Server space required.
- Dependency of proprietary software for AI components.

Hence E³ English with three components launched in 2020 February.

THE HINDU

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KERALA

E3 English to improve students' language skills

STAFF REPORTER

THIRUVANANTHAPURAM, FEBRUARY 18, 2020 23:23 IST
UPDATED: FEBRUARY 19, 2020 08:59 IST

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LEARN ENGLISH

Enjoy, Enhance, Enrich English
For students from Classes 1 to 8

Launch
This academic year

Three components
- Samagra e-library   • e-language lab   • e-broadcast

It aims at making use of facilities of Hi-Tech School and Hi-Tech Lab projects

The government has issued orders giving its nod for E3 (E-Cube) English, a project to improve English skills of students from Classes 1 to 8.

E3 (Enjoy, Enhance, and Enrich) English will not only help students' command

Highlights of E³ English software

- No need for separate hardware or centralized server systems and internet or exclusive networking.
- No personalized data sharing, thus ensuring privacy.
- In accordance with National & State Curricula.
- High quality stories & activities related to curriculum & LOs
- To monitor progress of each student & provide feedback.
- Easy to install without any separate investment
- User friendly, easily trainable, replicable & can be adopted free of cost in other States too.
- The typical activities in the Moodle platform are adopted for the Language lab (Recording, Play Videos etc.).
- The server-client architecture can be installed in a Computer on a single click.
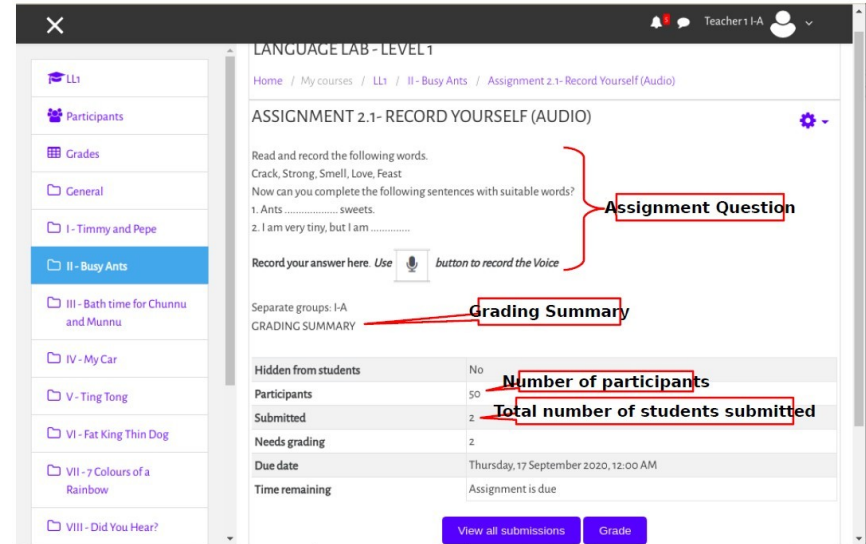- Uses Moodle platform under GNU GPL.

E³ English is aligned with Curriculum and LOs

- The stories and activities in the software are linked to the curriculum and teaching learning materials in terms of themes and learning outcomes.

- The software contains digital multimedia content for promoting listening, speaking, reading, writing, vocabulary and language elements related activities for students at different levels.

- The E-Language lab course content and activities enable students to put into practice the skills and knowledge they acquired in the classroom.

- Options for teachers for assessment and feedback and to track the progress of the students.

Multiple logins- Student/Teacher/Head Teacher

- Student login, Teachers login & Head-Teacher logins
- Student console has Digital Multimedia content for students in 4 levels.
- Students can access course content using Student login & Teachers can monitor and give feedback to student's performance through teacher login.
- Can easily be installed in computers deployed in schools
- Software can be both Online and Offline.
- Present version is Offline –FOSS based.

Teacher Login- Grade Summary

Process and Activities

LANGUAGE LAB - LEVEL 1

Home / My courses / LL1

I - TIMMY AND PEPE — Your progress

- Listening Activity 1.1 (Story) ☐
- Play Story 1.1 ☐
- Read Story 1.1 ☐
- Listening Activity 1.2 (New Words) ☐
- True or False 1.1 ☐
- Choose the appropriate 1.1 ☐
- Drag and Drop 1.1 ☐
- Drag and Drop 1.2 ☐
- Drag and Drop 1.3 ☐

II - BUSY ANTS

- Listening Activity 2.1 (Story) ☐

Sidebar menu:
- LL1
- Grades
- General
- I - Timmy and Pepe
- II - Busy Ants
- III - Bath time for Chunnu and Munnu
- IV - My Car
- V - Ting Tong
- VI - Fat King Thin Dog
- VII - 7 Colours of a Rainbow
- VIII - Did You Hear?

- Rich inputs for listening, speaking, reading & writing
- Quiz type activities- drag & drop, MCQ, True or False
- Assignment activities- writing, audio & video presentations.

Teacher Empowerment and Implementation

- Language lab software developed in 2020 was trialed in selected schools and the software was revised.
- Implemented in schools in 2022 June/July.
- 70,000 teachers given 2 day training in using and implementing e-Language Lab in schools.

E³ English Language Lab Presentation

Login Screen

Impact Study on E³ English Language Lab by RIESI, Bangalore & IT for Change
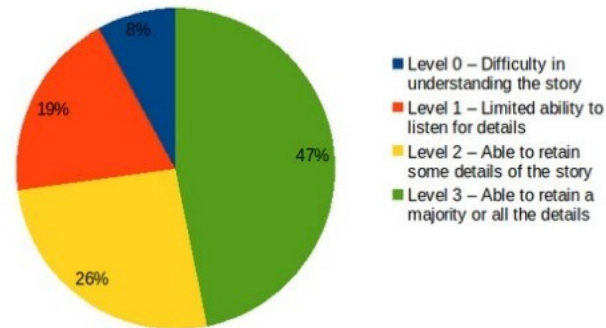
- Baseline study conducted in select schools in Kasaragod, Ernakulam and

    Kollam districts during August-September 2022.

Findings

By and large, students performed well, were confident while answering the questions and in most cases needed little to no encouragement to answer.

Across schools and grades, students fared the best in terms of *listening and speaking skills* - 47% of grade 3 students across the three districts were able to retain a majority of, or all the details that they heard in the story.

In grade 5, only 4% of the students were unable to understand the audio or respond in their mother tongue. 35% of grade 7 students were able to follow the discourse in English.

8%

19%

47%

26%

- Level 0 – Difficulty in understanding the story
- Level 1 – Limited ability to listen for details
- Level 2 – Able to retain some details of the story
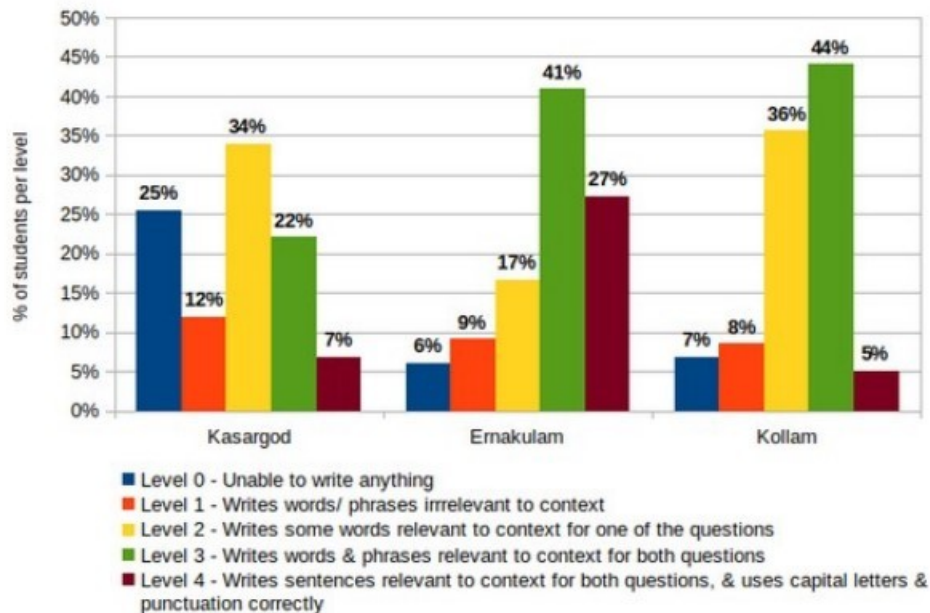- Level 3 – Able to retain a majority or all the details

Listening Skills across districts for Grade 3

Findings…

Students, especially in grades 5 and 7, struggled the most with *writing skills* and in their *ability for creative expression*. Only 7% of students from grade 5 and 5% from grade 7 were able to use a proper sequence of ideas, events, dialogues or characterisations in their responses.

- Level 0 - Unable to write anything
- Level 1 - Writes words/ phrases irrelevant to context
- Level 2 - Writes some words relevant to context for one of the questions
- Level 3 - Writes words & phrases relevant to context for both questions
- Level 4 - Writes sentences relevant to context for both questions, & uses capital letters & punctuation correctly
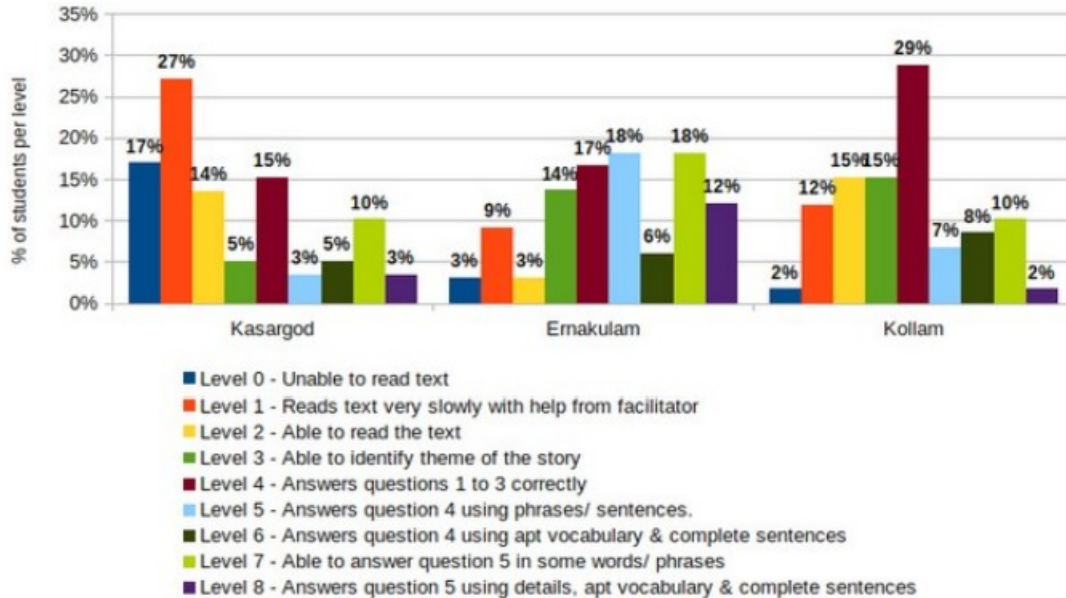
4. Across the three districts, most of the students' written responses were limited to writing a few words or phrases relevant to the context, as opposed to complete sentences.

Writing skills in Grade 5 (district-wise)

Findings

Ernakulam fared the best overall, whereas Kasargod performed markedly lower than the other two districts in all the skills assessed, as evident from the chart below depicting reading comprehension skills (district-wise) for grade 5.

Level 0 - Unable to read text
Level 1 - Reads text very slowly with help from facilitator
Level 2 - Able to read the text
Level 3 - Able to identify theme of the story
Level 4 - Answers questions 1 to 3 correctly
Level 5 - Answers question 4 using phrases/ sentences.
Level 6 - Answers question 4 using apt vocabulary & complete sentences
Level 7 - Able to answer question 5 in some words/ phrases
Level 8 - Answers question 5 using details, apt vocabulary & complete sentences

Scalability & Growth factor

- Can be used for the development of software in languages : Malayalam, Tamil, Kannada, Hindi and the like.
- Can be scaled up to cater a larger student populace.
- Can be installed in Laptops / Desktops with Linux based KITE-GNU Operating System 20.04.
- Can be replicated in other States and Countries across different school educational contexts.

Amitabh Kant ✔ @amitabhk87 · 3h

Kerala schools to save Rs 3,000 crore by using Linux OS. Envisages largest ICT training for teachers, with training of over 1,50,000 primary teachers.From the next academic year,more than 2,00,000 computers in Kerala schools financialexpress.com/industry/techn… via @FinancialXpress

Kerala schools to save Rs 3,000 crore by using Linux OS
Schools in Kerala are expected to save Rs 3,000 crore as they have chosen the Linux-OpenSource (OS) operating system for computers being made av...
financialexpress.com

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Vision and Roadmap

2021-22

eLanguage Lab 1-8 Kerala

2024-25

eLanguage Lab 9-12 Kerala

In Other States and Countries

2024-26
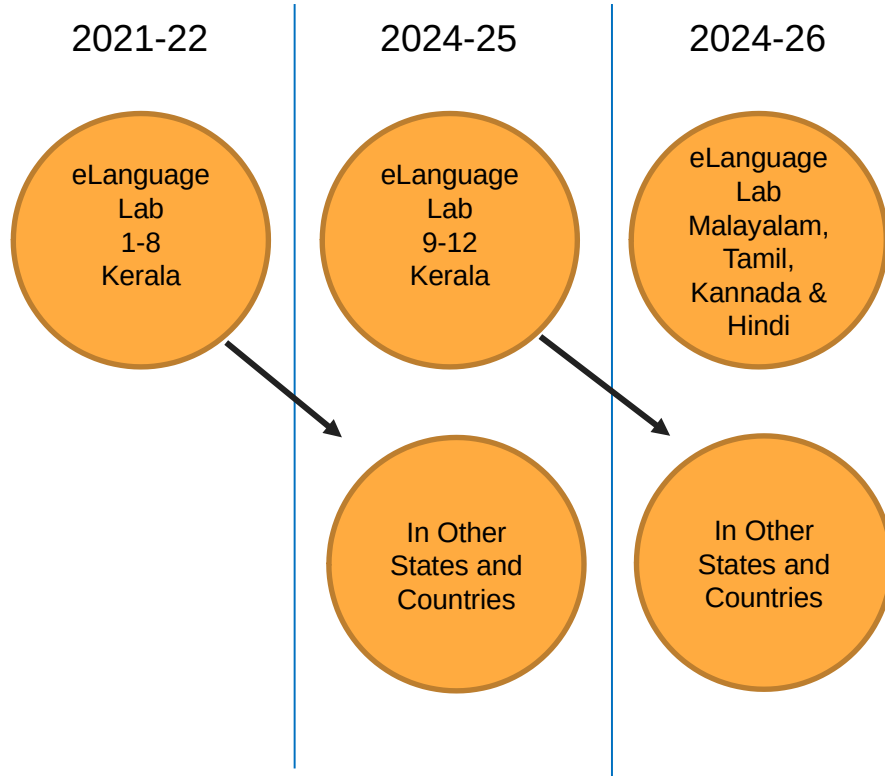
eLanguage Lab Malayalam, Tamil, Kannada & Hindi

In Other States and Countries

Vision
- To enhance the English Language proficiency of all students from Classes 1 to 12 by using affordable and appropriate technology solutions.
- To empower teachers to support learners continuously to enhance students' English Language proficiency

Roadmap
- Capacity Building of all teachers through the Master Trainer mechanism to enable them to use Language Lab, eLibrary and eBroadcast and to support students.
- Monitoring mechanisms at State / District and School level.
- Continuous Technical and handholding support by KITE.