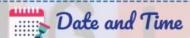




Virtual Lab as a teaching learning tool for Languages







19 November, 2024

from 10:00 AM to 11:00 AM, Tuesday

Resource Persons



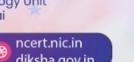


Ms. Priyanka Monde

Module lead **Educational Technology Unit CDAC Mumbai**



Project Manager **Educational Technology Unit CDAC Mumbai**

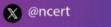














VIRTUAL LAB FOR LANGUAGE

Ms. Suman Ninoriya

Education Technology Unit

CDAC Mumbai





Outline

- Language learning
- Lab as an affordance for language learning
- Eco-system of virtual labs
- Current available language labs
- Or How to use these?
- Demonstration of labs

Language Learning

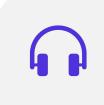
Effective Instruction requires attention to all 4 aspects





READING

WRITING





LISTENING SPEAKING

Reading



To help familiarise with constructs and usages.



To build vocabulary with context



Improve comprehension

Writing



Knowledge of grammar and spelling



Vocabulary and how/when to use



Mapping ideas to words/sentences



Most energy usually spent here in LL

Speaking



Pronunciation of words



Intonation in sentences



Impromptu sentence formation

Listen

Pronunciation – decoding

Comprehension from oral input

More in Language learning

Composition

Review a writing

Speech

Conversation

Research paper

Language Labs

No experiments as in science lab to do!

But LL requires large amount of practice...

Prompt constructive feedback essential...

Language Lab as a way to achieve this!

Need a large repository

Virtual labs for Language learning

Approach used:

- Drill and practice, Game based labs
- Data set used is easy to extended for more sentences and words.
- Hints and help as required
- Intuitive Feedback
- Subject based affordance
 - Word repository
 - Sanskrit Inflection, Hindi translation etc.
- Levels are added (based on difficulty)
 in most of the activities for maximum
 coverage of topic

Eco-system

Theory relevant to the lab

Understanding of the process and its implications

The core simulator

Lab affordance: words repository, hints, images etc.

Review questions, references

Language lab under Diksha

English

- Currently 20 labs developed focussed on mostly the 'W' aspect.
- Few labs developed on listening also (under review)

Hindi

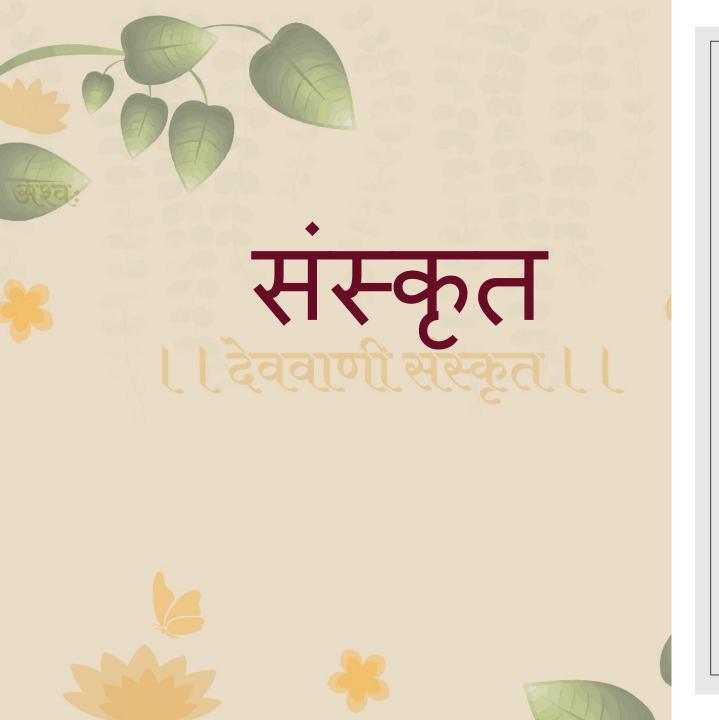
 Focus on Grammer: Noun, Adjective, Samas, varn vichar etc.

Sanskrit-

 4 activities released and more developed under review

ENGLISH LABS

- Learning Prepositions of Location
- Learning Prepositions of Location (Picture Dictation)
- Correction and Omission Activity
- Learning Preposition of direction
- Passive to Active Voice Conversion
- Active to Passive Voice Conversion
- Tense Conversion
- Improving Comprehension Skills
- Direct to Indirect Speech
- Reported Speech
- Subject-Verb Agreement
- Singular to Plural Conversion



- ॰<u>धातु-रूपाणि</u>
- ॰ सर्वनाम शब्द रूप
- ॰ संजा शब्दरूप

Under review

- ∘ उचित रुपम्
- ॰संधि:
- ॰वर्ण विच्छेद
- ॰पत्रलेखनम्
- ∘ चित्रवर्णनम्



हिन्दी

- विशेषण
- विशेषण के प्रकार
- संज्ञा
- संज्ञा के प्रकार

Under Review

- वर्ण विचार
- संधि विच्छेद
- पत्र लेखन
- क्रिया
- सर्वनाम
- समास

Using the Language Labs-1

- When explaining concepts in class....
- Use to show demonstrations, to prompt students to guess answer, etc.
- Consciously giving wrong answers can be used to show the error responses and corrections.



Using the Language Labs-2

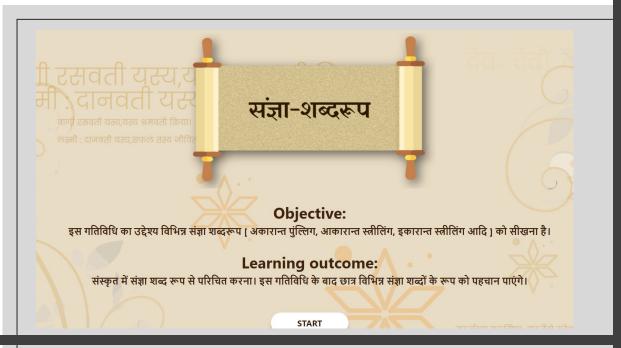
- Assign practice sessions for out of classroom activities.
 - ∘Try 10 sentences
 - Can ask them to submit the report generated by system



Using the Language Labs-3

- •Encourage students to practice online, till they reach a correctness level above 90%.
- Logs can be used to check (if needed) for internal evaluation, etc.











Teachers can contribute to language labs

- Contribute ideas
- Help in identification of hard spots
- Volunteer to add more examples/data in the existing labs.

DEMO

https://diksha.gov.in/virtuallabs.html

THANK YOU

Reach us at: etu@cdac.in and vidyakashetu@gmail.com

Conclusion



Under the MoE virtual lab initiative, a good collection of labs for a range of subjects is coming, including languages.



We invite you to try this, and share your feedback.



If there are areas of language learning which you think are difficult areas for students, kindly share with us.



Contact us at etu@cdac.in, vidyakashetu@gmail.com