

SUSTAINABLE PARTNERSHIPS FOR TRANSFORMATIVE TEACHING



DR. N.C.OJHA

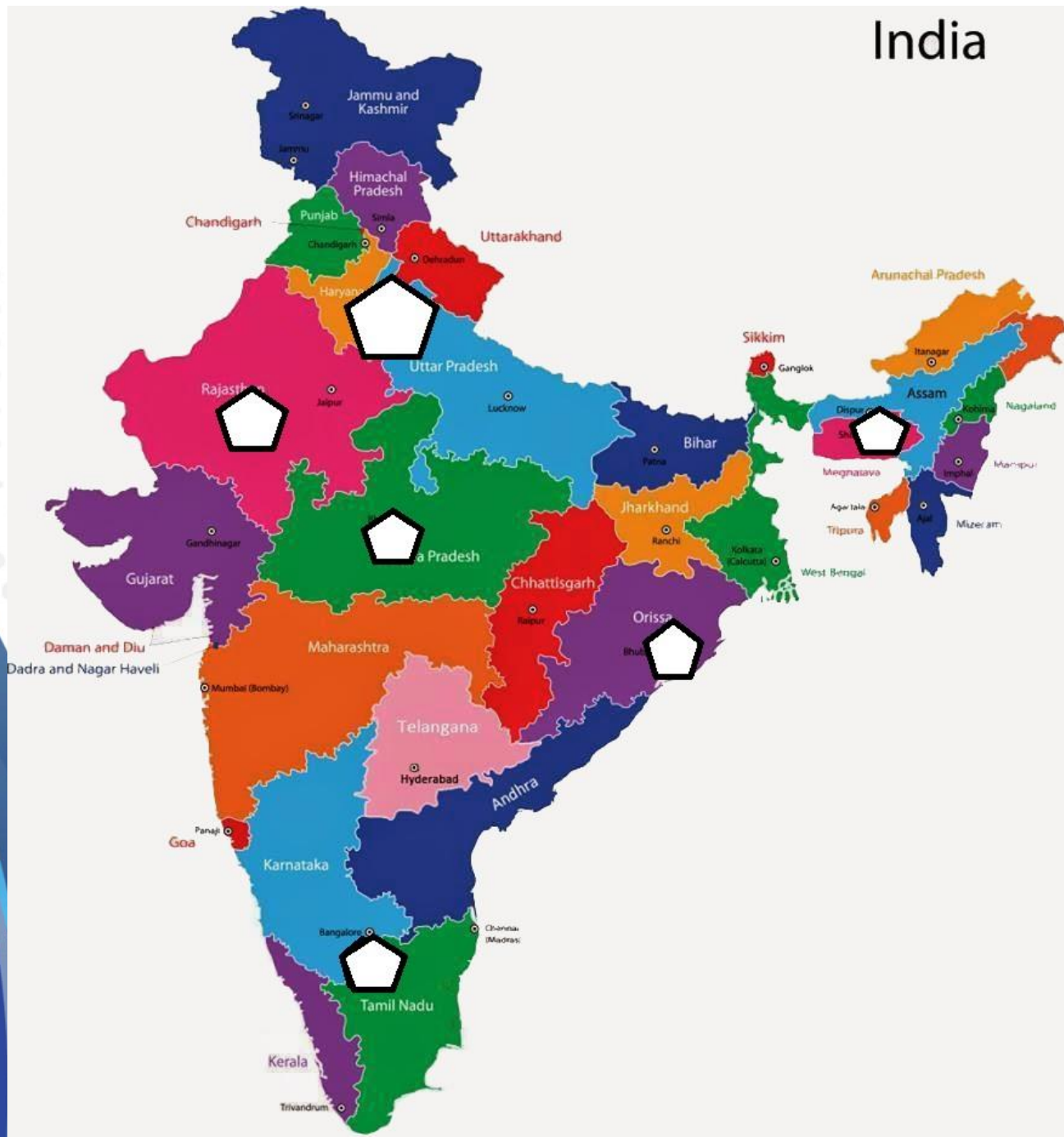
RDTC


REGIONAL INSTITUTE OF EDUCATION

(A Constituent Unit of National Council of Educational Research and Training, New Delhi)

Shyamla Hills, Bhopal, India

India



- 
- **National Council for Educational Research and Training (NCERT), New Delhi**
 - **It is the apex body in school education in the country, functioning under the Ministry of Human Resource and Development (MHRD), Govt. of India**
 - **It has Five Regional Institute of Education (RIE) established at Ajmer, Bhopal, Bhubaneswar, Mysore and Shillong**
 - **All the constituents units are engaged in Pre-service as well as In-service Teacher Education Programmes**
 - **It has Four Demonstration Multi-Purpose Schools (DMS) having the classes from ECCE to XII. It acts as a laboratory for innovative practices in teaching-learning where experiments are conducted.**

Regional Institute of Education (RIE)

Programmes/Activities

- **In-service Teacher Education Programmes**
 - **Training of faculties of DIET, IASE, CTE and teachers/Key Resource Persons (KRPs)**
- **Pre-service Teacher Education Programmes (About 600 students have been enrolled for these pre-service programmes)**
 - **B.A.B.Ed.(Four-year Integrated Course)**
 - **B.Sc.B.Ed (Four-year Integrated Course)**
 - **B.Ed. (Two-year)**
 - **M.Ed. (Two-year)**
 - **M.Sc.Ed (Six Year integrated course)**
 - **Diploma Course in Guidance and Counselling (One year): On-line as well as face-to-face**
 - **In addition to these courses, the faculty members guide Ph.D. scholars in different disciplines**
 - **M.Ed. (3 years Integrated Course-Upcoming)**

Initiatives for ICT in Education by RIEs

- **In-service Training**
 - **ICT in Education: A Trainer's Manual (45 modules)**
 - **E-learning and E-content Training Programmes**
 - **E-learning - Certificate Programmes**
 - **Programme Evaluation**
 - **Research Methodology**
 - **School Librarianship**
 - **COL-CIET, NCERT – MOOC on OER**
- **Pre-service Training**
 - **ICT in Education Curriculum**
 - **NROER-RIE e-content development**
 - **Blended Learning experiences using Moodle**
 - **Social Networking as an OER Platform**
- **Collaboration and Consultancy Services**
 - **Collaboration with Commonwealth and the states**
 - **Research and Programme Evaluation of states**
 - **Training of Teacher Educators of states**
 - **Inter RIE Collaboration**

Pre-service Training

- 1. ICT in Education – Pre-service Curriculum**
- 2. NROER-RIE e-content development**
- 3. Blended Learning experiences using Moodle**
- 4. Social Networking as an OER Platform**

ICT in Education – Pre-service Curriculum

- **Two semester Course for both undergraduate and post graduate programmes covering**
- **basics, e-content, e-learning, authoring tools, ICT and pedagogy, Web 2.0 tools, ICT for assessment and administration**
- **Hands-on sessions**
- **Pedagogical integration – TPACK**
- **ICT -based lessons in internship**
- **Subject specific ICT Tools**
- **Emphasis is on FOSS Tools**



NROER and E-content Development

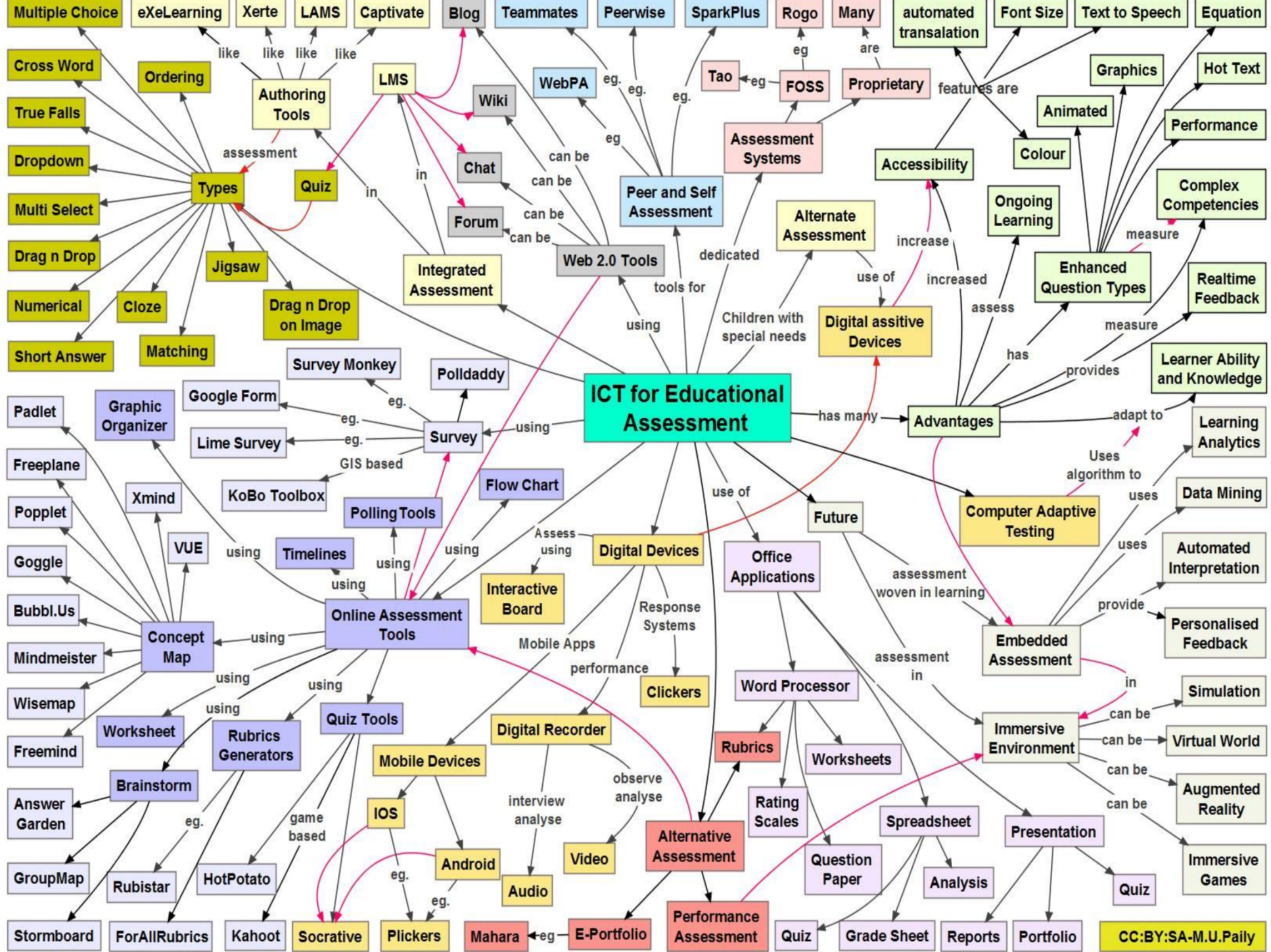
- Establishment of Studio with all the modern cameras, systems, production and post- production equipments
- Five smart digital rooms with video conference
- Involvement of trainees in e-content creation/development
- Involvement of Our School Teachers in e-content creation/development-**Each RIE has its own Demonstration Schools- pre-primary to Senior Secondary**
- From standard VI – XII in all subjects

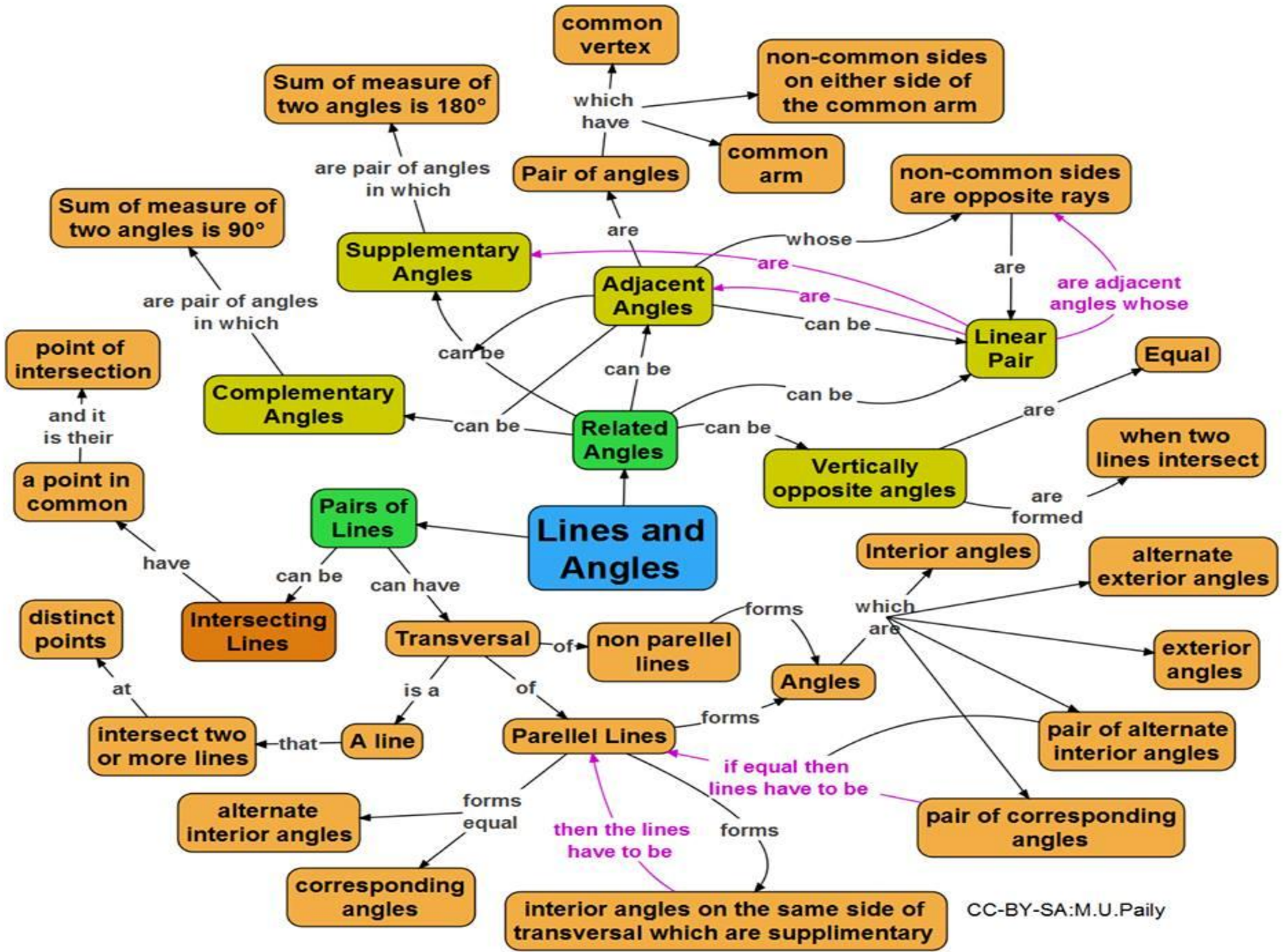
Blended Learning Experiences using **LMS Moodle**

- **Institutional e-learning platform to provide support to the learners**
- **Blended learning experience to the trainees, teachers, and teacher educators**
- **This helped them in**
 - **sharing the syllabus based e-content they have created,**
 - **taking the quiz,**
 - **involving in discussion through forums,**
 - **developing content collaboratively through moodle wiki,**
 - **developing glossary of important concepts, and**
 - **engaging themselves in reflections through blog.**
- **This has provided them with collaborative learning experiences**

Use of Social Media at RIE

- **FB for sharing resource under CC License**
 - **Created using FOSS Tools**
 - **Sharing of Source file for adapting**
 - **Examples are in the following slides**
- **FB Groups for collaboration and sharing**
 - **Flora and Fauna of RIEs and NCERT Campus**
 - **Technology for Teachers**
- **Some Examples Follows**







The Story of Bamboo

Updated about 3 years ago

Most bamboos flower only once every 30 to 130 years depending on the species. Horny bamboo forests in south - Wayand wildlife sanctuary, Bandipur National Park, Mudumalai National Park and Nagarhole National Park - belong to the species Bambusa Bambo blooms only once in 35-50 years. This species like most other species exhibit Gregarious flowering - when all populations of this species of bamboo flowers all at once. The mass flowering stresses the bamboo to such an extent that it will die. The entire bamboo population in these region flowered and dead in the last couple of years

(2011-13) and this also has triggered forest fire in the region. I was fortunate to photograph the bamboo seeds at various stages during my recent visit to this area in 2012-13. Tribals traditionally believes that bamboo flowering is the sign of an impending famine. Some say that each of the bamboo grove of trees can produce 50-100 kg of seeds. Bamboo seed (Mulayari in Malayalam) is an important part of the diet of tribal communities in this region. The seeds can replace rice and can be used to make many of Kerala delicacies like payasam, unniyappam, uppumavu and puttu.



- Mu Paily
- News Feed
- Messages
- SHORTCUTS
- Flora and Fauna of...
- Technology For Te...
- ONLY RIEMAA ME...
- Mu.Paily Photography
- Butterflies of India
- bloggers spot
- WILDLIFE ACTION
- See More...
- EXPLORE
- Pages
- Groups
- Events
- On This Day
- Pages Feed
- Photos
- Games
- See More...
- CREATE
- Ad · Page · Group · Event

Techn 4r Teach

Technology For Teachers

Public Group

Joined ▾ Share Notifications ...

- Discussion
 - Members**
 - Events
 - Videos
 - Photos
 - Files
- Search this group

Members 5,985 Admins 2 Blocked 14

Default ▾ + Add Find a Member



Mu Paily
 Professor of Education at National Council of Educational Research and Training (NCERT)
 Joined
 Added by Raghavendra Rao about 3 years ago



Poulouse Ap
 Regional College of Education, Mysore
 Joined
 Added by Mu Paily about 2 years ago



Sukhwinder Kaur
 Science Mistress at Working as Govt. Teacher at Govt. high school Sidhupur kalan
 Joined
 Added by Raghavendra Rao about 2 years ago



Gayatri Parmar Palle
 Owner at Gayatri Palle Photography
 Added by Mu Paily about 2 years ago



Jyoti Biswas
 Teacher at Shree swaminarayan international school
 Joined
 Added by Mu Paily about 2 years ago



Sunanda Jati
 Principal at Prabhathi Public School, Titlagarh
 Joined
 Added by Raghavendra Rao about 3 years ago



ACTIVITIES AND THE UTILISATION OF
UNESCO RESOURCES

Dissemination of Resources

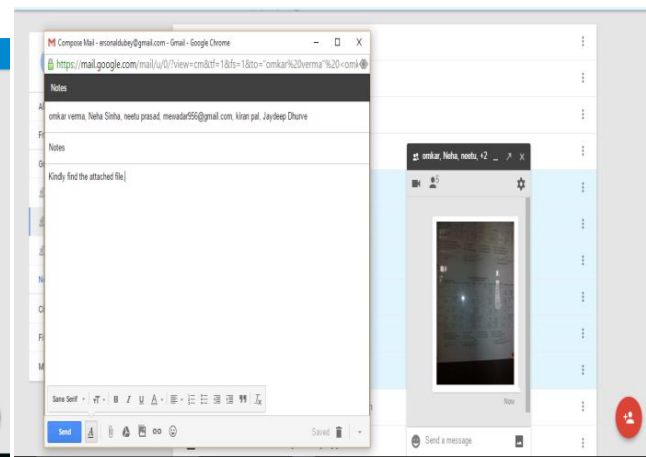
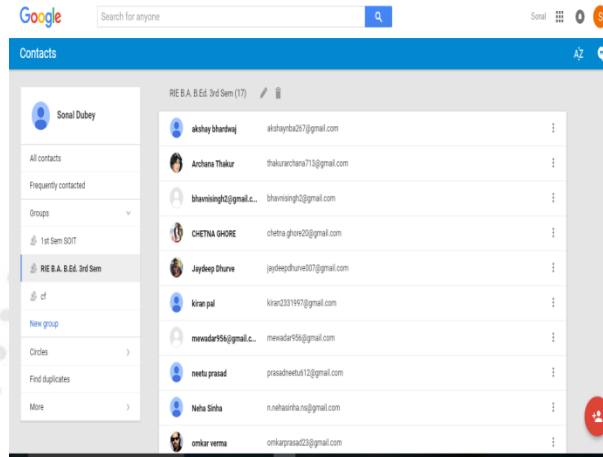
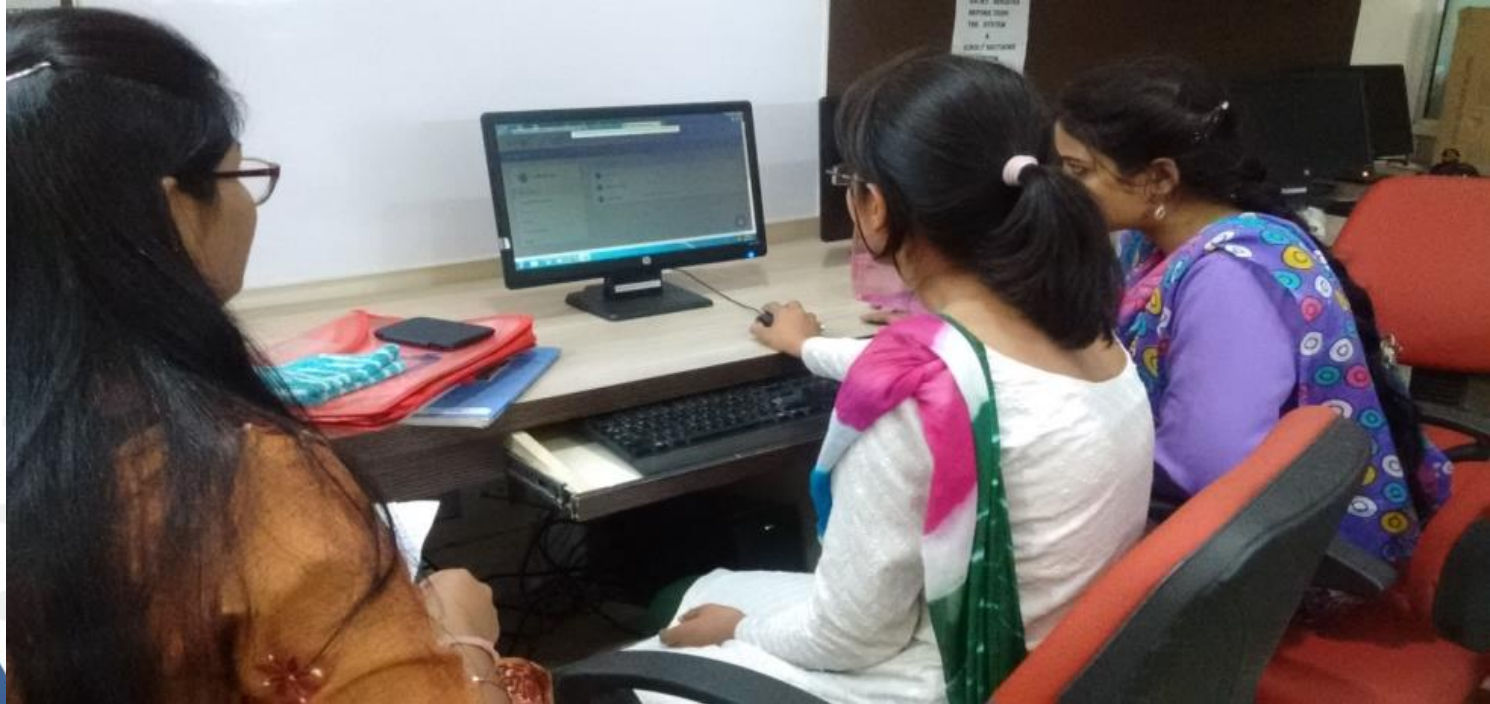
	Number of distributed UNESCO Resources (Estimated Total numbers)						
	CD 1	CD 2	CD 3	CD 4	CD 5	CD 6	CD7
Distributed CD Event/Training/ Workshop/ Conference, etc.							
Distribution of Resources to Individual during training/ workshop/ conferences, etc	42	42	42	42	42	42	42

RESOURCE UTILIZATION

A. Utilization of resources in Pre-service Programmes

- ✓ **Google Group**
- ✓ **Blog writing activity**
- ✓ **Training of students on the whiteboard**
- ✓ **Drop box activity students**
- ✓ **EXE tool activity**
- ✓ **In Blabberize activity**
- ✓ **I-Speech**
- ✓ **Creating account in Wikipaedia/ wikieducator/wikispaces and adding/editing content**
- ✓ **Creating account in teachertube/slideshare and sharing your video/PPT**
- ✓ **Developing electronic portfolio**
- ✓ **Developing electronic assessment portfolio**
- ✓ **Developing script for the e-content in an educational topic**
- ✓ **Developing multi-media e-content in an educational topic**
- ✓ **Developing lesson plan for internship programme integrating ICT in different topics**
- ✓ **Pedagogy-technology integration**

Google Group



Blog Writing Activity



BEd Students
Just another Edublogs site

Search

Aa Bb Cc Dd Ee

Home Sample Page

Search

The New Global Trends in ICT

Posted on October 26, 2015

The Top ten Global Trends in ICT and Education are:

- **Mobile Learning** New advances in hardware and software are making mobile "smart phones" indispensable tools. Just as cell phones have leapfrogged fixed line technology in the telecommunications industry, it is likely that mobile devices with internet access and computing capabilities will soon overtake personal computers as the

Welcome!

Welcome to your brand new blog!

This is a sidebar and can be changed in **Widgets** in your dashboard.

You can also modify number of sidebars in **Theme options!**

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- [The New Global Trends in ICT](#)
- [The BEd students Project](#)
- [Hello world!](#)

Recent Comments

- [Edublogs on Hello world!](#)

Categories

- [Uncategorized](#)

Meta

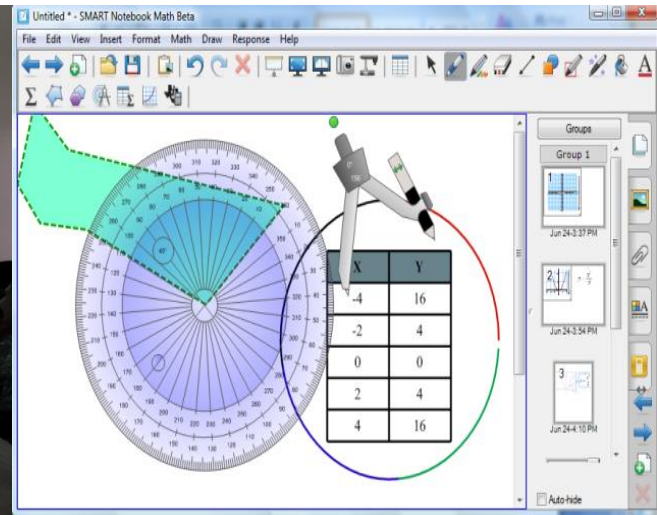
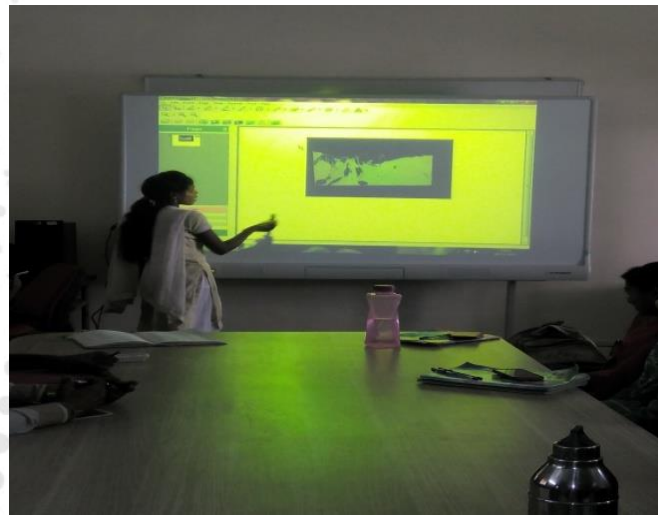
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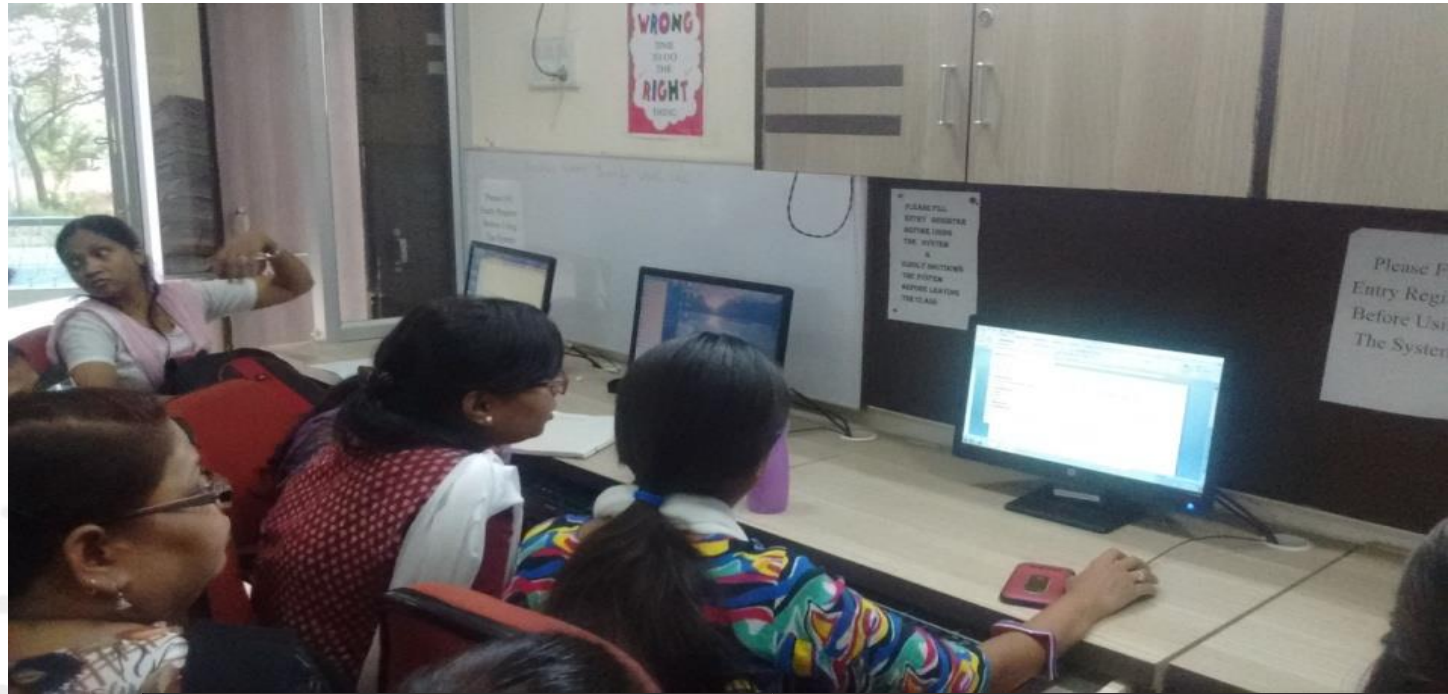
- **Cloud computing** Applications are increasingly moving off of the stand alone desk top computer and increasingly onto server farms accessible through the internet. The implications of this trend for education systems are huge, they will make cheaper information appliances available which do not require the processing power or size of the PC. The challenge will be providing the ubiquitous connectivity to access information sitting in the "cloud"



Interactive-WhiteBoard




DROPBOX



Try Dropbox for Business

Dropbox

Download the app • Sign in



Dropbox works the way you do

Get to all your files from anywhere, on any device, and share them with anyone.

First name Last name

Email

Password

I agree to Dropbox terms.

[Sign up for free](#)

or

[Sign up with Google](#)

Upgrade account

sonal dubey

Dropbox

Files

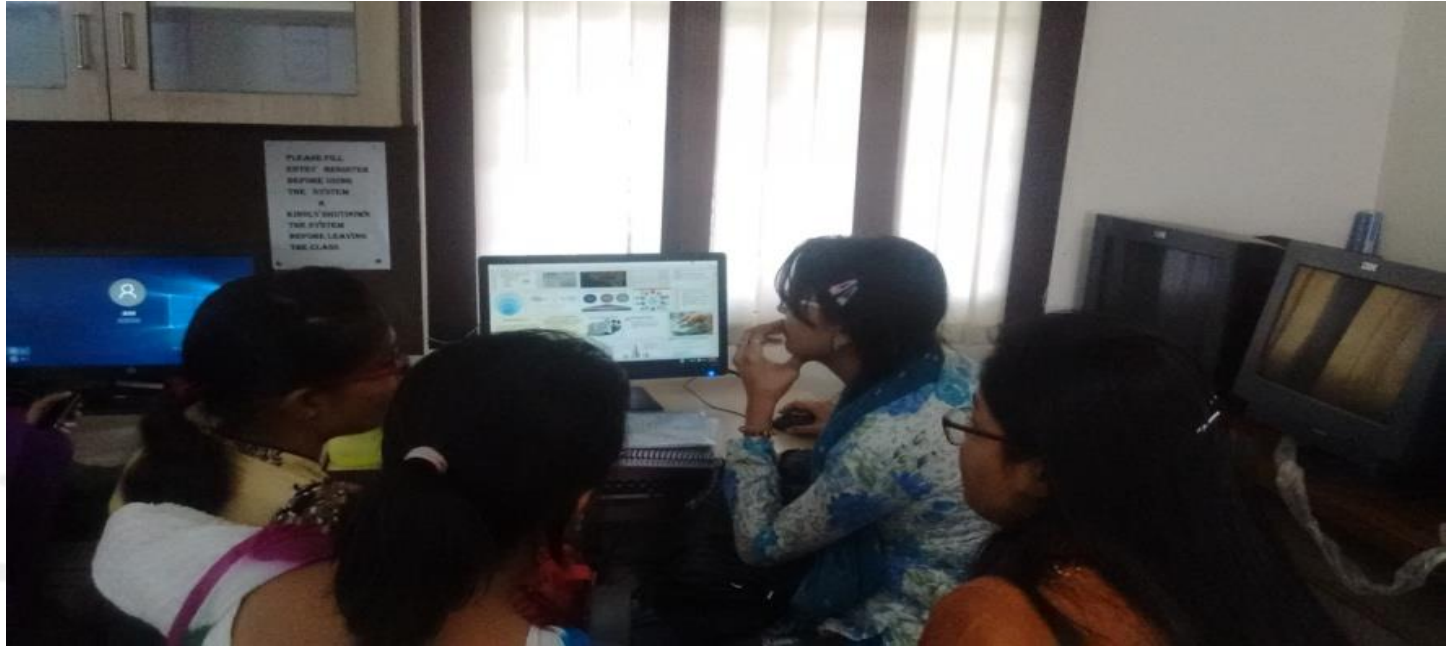
Name	Modified	Shared with
Cloud computing	--	bw
cloud paper work	--	bw
cloud papers	--	bw
examz forms	--	--
job	--	--
lecture notes	--	--
MAJOR PJCT	--	--
monograph	--	bw
mooc	--	bw
MP	--	--
MT	--	--

Deleted files

Dropbox for

Help Privacy

eXeTool



File Edit Styles Help

Add Page Delete Restore

Outline

- Computer
- Types of Computer
- Objectives

Devices

- Activity
- Case Study
- Class Activity
- External Web Site
- Free Text
- Image Gallery
- Image Mapper
- Java Applet
- Multi-choice
- Multi-select
- Objectives
- Prerequisite
- RSS
- Reading Activity
- Reflection
- SCORM Quiz
- True-False Question
- Web Article

Done

Authoring Properties

Definition

Computer generally means a programmable machine. The two principal characteristics of a computer are: it responds to a specific set of instructions in a well-defined manner and it can execute a pre-recorded set of instructions (a program).



All general-purpose computers require the following hardware components:

- Memory: enables a computer to store, at least temporarily, data and programs.
- Mass storage device: allows a computer to permanently retain large amounts of data. Common mass storage devices include disk drives and tape drives.
- Input device: usually a keyboard and mouse, the input device is the conduit through which data and instructions enter a computer.
- Output device: a display screen, printer, or other device that lets you see what the computer has accomplished.
- Central processing unit (CPU): the heart of the computer; this is the component that actually executes instructions.

In addition to these components, many others make it possible for the basic components to work together efficiently. For example, every computer requires a bus that transmits data from one part of the computer to another.

Done

File Edit Styles Help

Add Page Delete Restore

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Done

Authoring Properties

SCORM Quiz

objectives

What is RAM?

- Output Device
- Input Device
- Memory Device
- None

What is ROM?

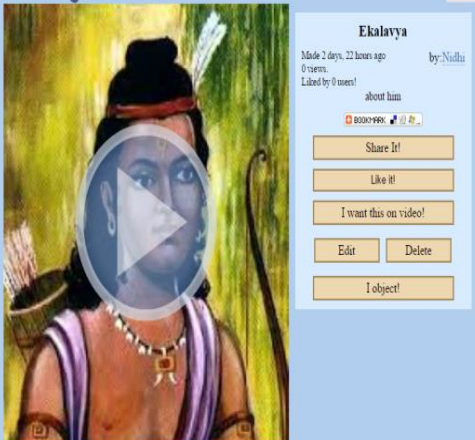
- IP Device
- Volatile Memory
- Non-volatile Memory
- None

Submit Answer

Blabberize



BLABBERIZE MAKE BROWSE MY STUFF



Ekalavya
Made 2 days, 22 hours ago
0 views
Liked by 0 users!

by: **Nalhu**
about him

Share It!
Like It!
I want this on video!
Edit Delete
I object!

We made you a
Blabber



It takes
like 30
seconds.

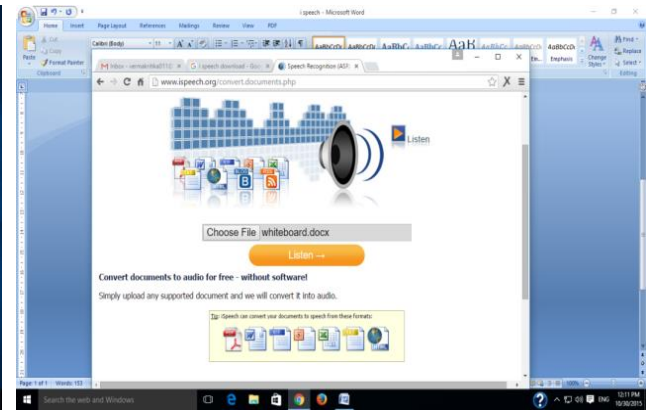
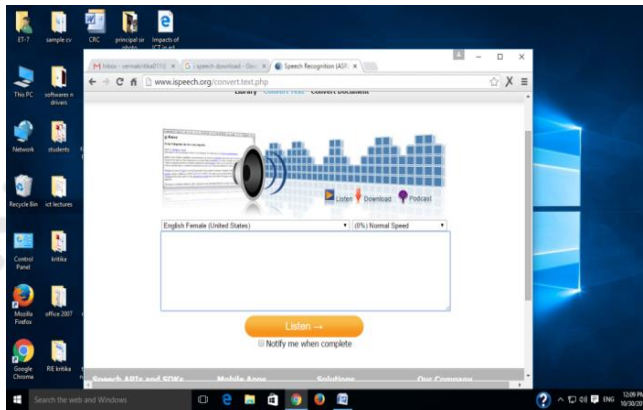
You should
make one,
too.

Blabberize
MAKE BROWSE MY STUFF

Search

[login / signup]

I -Speech



Power Point Presentation



ICT and Education

- ❑ ICT to enhance teaching and learning environments.
- ❑ ICT enables self-paced learning through various tools such as assignment, computer etc as a result of this the teaching learning enterprise has become more productive and meaningful.
- ❑ ICT helps facilitate the transaction between producers and users by keeping the students updated and enhancing teachers capacity and ability fostering a live contact between the teacher and the student through e-mail, chalk session, e-learning, web-based learning including internet, intranet, extranet, , TV audio-video aids, CD-ROM.
- ❑ Edusat technology has become very powerful media for interactive participation of experts and learners and it reaches the unreachable.
- ❑ Emerging learning Technology (ELT) of bogging, Integrated Learning Â Modules, a pod cast, Wikis, Enhancement of Browsers, e-learning, M-learning, U-learning have started making rapid strides in teaching learning processes.

Utilization of Resources in In-service Programmes

Types of the Programme	Participants	Level	No.	Collaborating Agencies
Training	Teachers/Teacher Educators	Elementary and Secondary	14	CEMCA (COL), SCERTs
Workshops	Teachers/Teacher Educators	Elementary and Secondary	10	CEMCA (COL), SCERTs
National Seminar (Reflective Practices in Technology Pedagogy Integration)	Teachers/Teacher Educators/Practitioners/ Research Scholars	Elementary and Secondary	01	
TOTAL			25	

Utilization of Resources in In-service Programmes

➤ *Workshops*

- **Development of e-content Modules in Science at Secondary Level using Web 2.0 Tools(13th -17th September 2014)**
- **Workshop on Development of ICT-based CCE Package using Alternative Techniques of Evaluation (17th – 20th, September, 2014)**
- **Workshop on the Development of ICT Integrated Instructional Material using FOSS for teaching Science to secondary school students (Phase-I) (15th – 18th, Oct., 2014)**
- **Workshop on ICT-Pedagogy Integration for the Teacher Educators of Madhya Pradesh: In collaboration with the Commonwealth Media Centre Asia, New Delhi (15-17 November 2014)**
- **Development of E-content modules in science at Secondary level using FOSS's web 2.0 tools (17-21 November 2014)**

Utilization of Resources in In-service Programmes

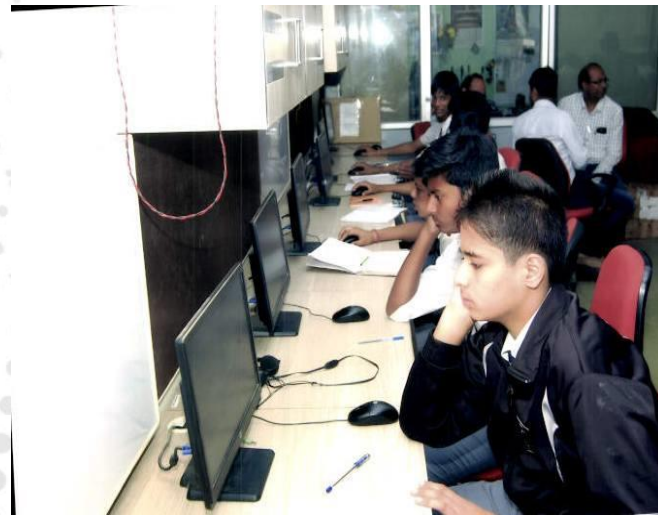
- **Workshop on Development of ICT-based CCE Package for Elementary Level using Alternative Techniques of Assessment(8th -12th Dec 2014)**
- **Development of ICT based CCE package using Alternative techniques of evaluation for Elementary level (7th – 9th Feb. 2015)**
- **Development ICT Integrated Training Package with Constructivist Approach for Secondary Level Mathematics (9th Feb – 13th Feb. 2015)**
- **Development of E-Content Module in Science at Secondary Level Using FOSS & Web 2.0 Tool (20th March – 22nd March, 2015)**
- **Development of ICT based CCE package using Alternative techniques of evaluation for Elementary level (21st March – 23 March, 2015)**

Development of e-content Modules in Science at Secondary Level using Web 2.0 Tools

Development of E-content Modules in Science at secondary level using FOSS and Web 2.0 tool.



STANDING L TO R
MR. SHYAM KUMAR SINGH, R.P. PRAJAPATHI, RAVI SHARMA, M. S. CHOUHAN, MANISH MISHRA, SATYENDRA KUMAR VERMA, NARESH YADAV, SUJIT PAL, K. BHASKAR
SITTING L TO R
ASHOK RAJE, K. KANTHIMATHI, H.K. SENAPATI (PRINCIPAL), REETA SHARMA, RASHMI SINGHAI, RAGINI BHATT



Workshop On Development Of ICT-Based CCE Package for Elementary Level using Alternative Techniques of Assessment



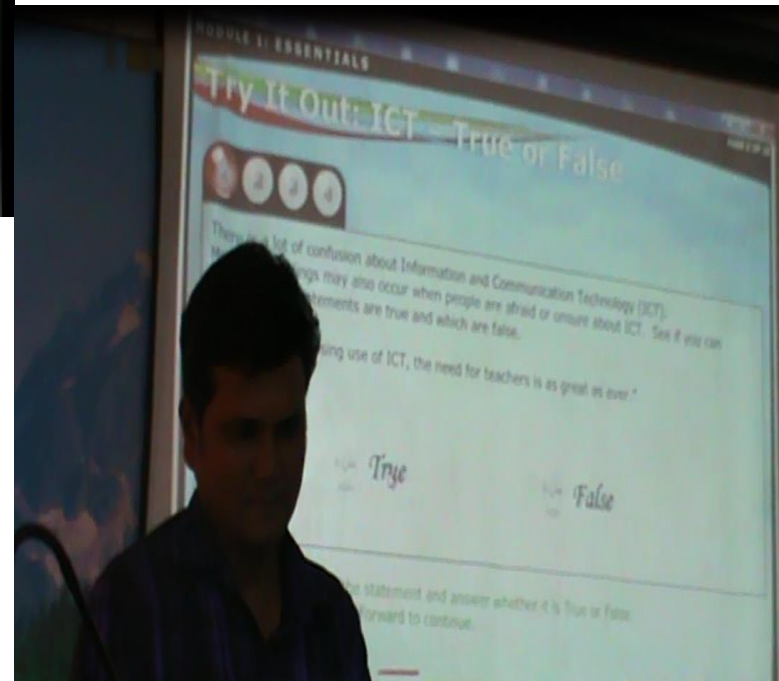
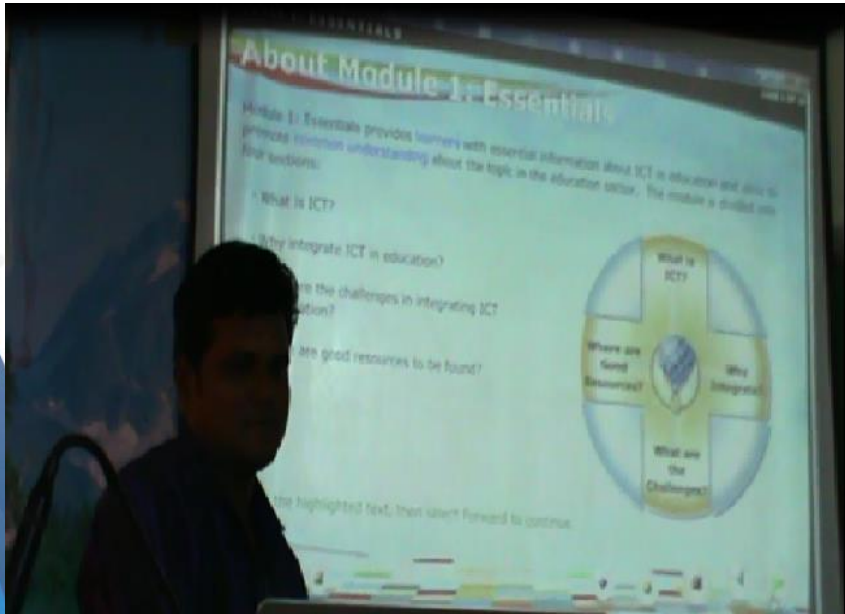
Training

- **Training of principals and teachers of minority educational institutions on integration of Web 2.0 technologies in teaching and learning (10-14, November, 2014)**
- **Orientation of the RIE faculties on web 2.0 technologies (one day)**
- **Orientation of RIE faculties on content, pedagogy and technology integration (one day)**
- **Orientation of B.Ed., B.Sc.B.Ed. and B.A.B. Ed. students of the Institute on Integration of technology with pedagogy and content.**
- **Training of Principals & Teachers of Minority Educational Institution on Integration of Web 2.0 Technology in Teaching & Learning (8th Feb – 12th Feb, 2015)**
- **Training of KRPs on ICT integrated teaching learning material in Gujarati (28th July- 1st Aug., 2015)**
- **Training Programme on Integrating ICT in English Language teaching for KRP's in Eklavya and Kasturba Gandhi (24th -28th Aug., 2015)**

Training

- **Training of Librarians of Western Region of Open Library Automation software (KOHA) (14th -18th Sept. 2015)**
- **Training programme on Practical skills using ICT Enabled Virtual Laboratories (28th Sept. – 2nd Oct. 2015)**
- **Training of teacher educators of Western region on techniques of use of Digital and Virtual laboratories (12th and 13th Nov. 2015)**
- **Training of teacher educators of western region on techniques of use of Digital and Virtual laboratories (16th – 20th Nov. 2015)**
- **Training of teacher educators of western region on techniques of use of Digital and Virtual laboratories (30 Nov. - 4th Dec. 2015)**
- **Training programme on Practical skills using ICT Enabled virtual laboratories (24th -28th Dec. 2015).**
- **Training Programme for RIE Faculty and Technical Staff on Audio-Video Production including E-content Development (8th – 12th March, 2016)**

Principals and Teachers of Minority Educational Institutions on Integration of Web 2.0 Technologies in Teaching and Learning



Workshop on ICT Integrated Teacher Education for DIET Teacher Educators of Madhya Pradesh

15-17 November 2014

Organised by

Regional Institute of Education, NCERT, Bhopal

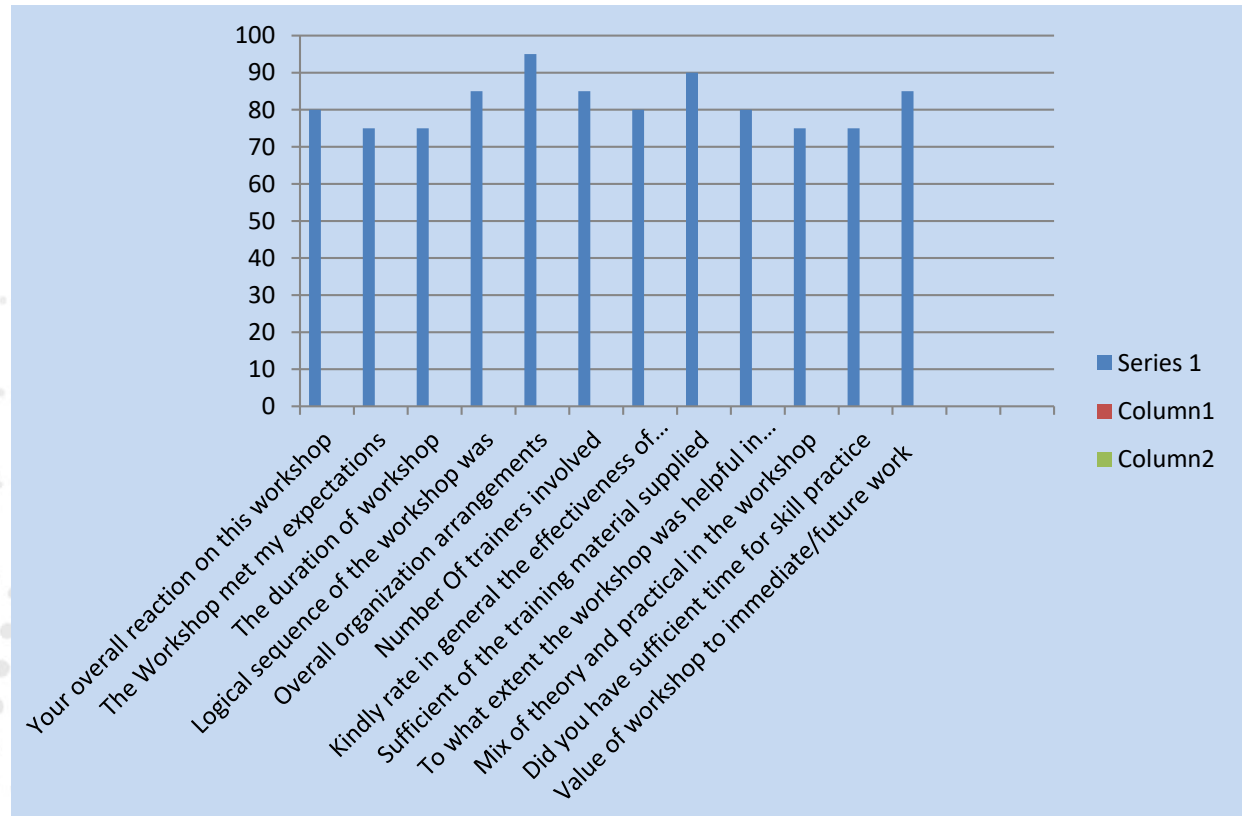
In Collaboration with

Commonwealth Education Media Centre of Asia, New Delhi



Microsoft Office
Word Document

Feed-back of the Programmes




Feed back and Evaluation

The activities conducted for both the in-service and the pre-service programmes evaluated by the institution

- The participants very keen to learn the ICT skills**
- Increase the duration of the workshop and more sessions for the practice**
- Extension of the lab and the web facilities**
- The WI-FI facilities to all the students and the faculties of the institute including the participants of the in-service programmes**
- In case of first-time users, difficult to handle, but after one session smooth handling**
- More time was for the practice when demanded**
- The follow-up of the each training programme**
- As per the suggestions of the participants and the need analysis, undertaking other programmes on ICT integrated learning, this year.**


Activities Ahead

- Capacity Building of Teacher educators of Western Region on ICT Integrated Teaching-Learning (In Collaboration with COL)
- Development of Manual for using Mobile as a Learning Aid
- Development of e-content for e-Pathshala
- Development of e-content for epg-Pathshala
- **Research:** Impact of e-content modules in science at Secondary level using FOSS and web 2.0 tools



Capacity Building of Teacher educators of Western Region on ICT Integrated Teaching-Learning (In Collaboration with COL)

- **Collaborating Agency: CEMCA, COL**
- **Participants: Teacher Educators of CTEs and DIETs**
- **Phases:**
 - **Phase: I-** Workshop on Content Selection and Module development
 - **Phase: II-** Workshop on Content Development
 - **Phase: III-** Final Workshop on Content Development
 - **Phase: IV(A)-** Training of Participants (10-days)
 - **Phase: IV(B)-** Training of Participants (10-days)
 - **Phase: V-** Feedback, Monitoring and Certification



**Observations
and
Suggestions
Requested**



THANKS