UNESCO, Bangkok Project: ESTABLISH 1 Project Report



United Nations Educational, Scientific and Cultural Organization

UNESCO, Bangkok Project

Experiential Science

&

Task Based Learning in English

(ESTABLISH)

www.establish.asia

Project Report

Jan. 2013 to Sept. 2013

India, Nepal, Indonesia, and Srilanka



UNESCO, Bangkok Project: ESTABLISH 2 Project Report

UNESCO Officials & Experts Team

with Prof. Dipak Tatpuje & Dr. Vaibhav Jadhav







International Partners

(INDIA, NEPAL, INDONESIA, & SRI – LANKA)



• Introduction:

This project was undertaken to promote tele – collaboration with "Project Based Learning" (PBL) for ESD (Education For Sustainable Development) & EFA (Education For All): A theme of UNESCO. "Learning science through experience and sharing it with others in English as a second language" is taken into consideration for the implementation of the project.

• Objective(s):

To study effectiveness of Experiential Science & Task based learning in English.

To assess skills developed among the students after performing activity based and Project based learning.

To develop ICT skills among the students for effective tele-collaboration.

Activities

Development of Science Activities & Kits (Seven)
Training of the Teacher-Trainers (Seven)
Development of e-Activity Cards, Android App
Student Workshop with activity kits in three schools (33 students)
Creation of Google community platform for tele-collaboration.
Online tool development to assess the skills.
Development of video channel for online exhibit.
Exhibition of the projects developed by the students through activity kits.
Needs of the stakeholders:

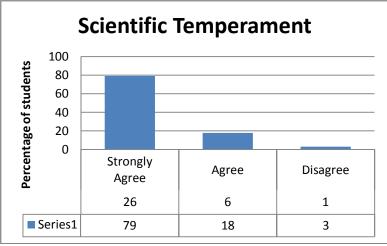
"Project Based Learning through science activity kits for better understanding of basic sciences" is the main need of the students. It is addressed properly through this project. Available Electronic Gadgets have been used successfully for self improvement by the education with tele-collaboration.

 Extra outcomes emerge from the project: Skillful use of ICT tools by the students is extra emerging of this project. It needs to be analyzed in future. Teacher – Trainers were enthusiastic about "Project based learning" methodology. Additional Training module with ICT tools for assessment needs to be developed. • Results

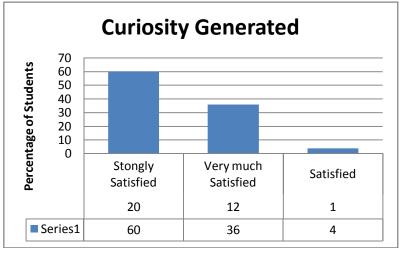
Scientific Temperament, Curiosity, Self learning, Analysis, & ICT Application are the skill sets predefined for this project.

After assessment of the skills, we find the following percentage of the students who agree that related competencies have been developed amongst them:

Scientific Temperament: 79% strongly agree, 18% agree, 3% Disagree

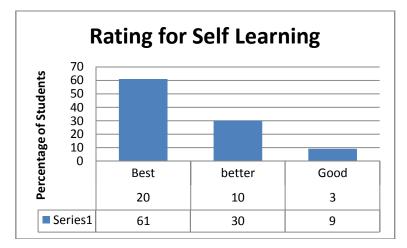


Curiosity: 60% strongly Satisfied, 36% Very much satisfied, 4% Satisfied

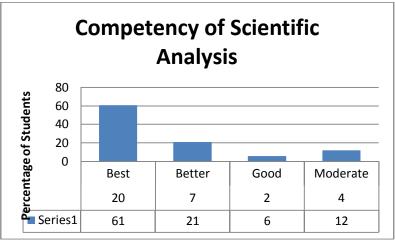


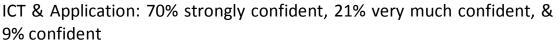
UNESCO, Bangkok Project: ESTABLISH 5 Project Report

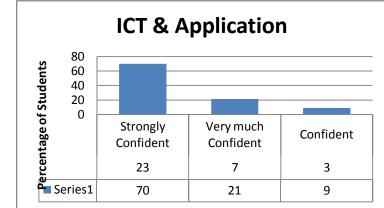
Self Learning: 61% Best, 30% Better, 9% Good



Competency of scientific analysis: 61% Best, 21% Better, Good 6%, Moderate 12%







• Challenges faced:

Development of ICT skills among the students. Understanding of Knowledge Search Techniques among the students. Integration of print activity card, & Digital Materials Problems:

Oral presentation in English.

Video Tele-collaboration through Google Hangouts: Limited speed of Internet

 Stakeholder's Engagement: All the stakeholders shown interest and also involved in the project as per the role given to them. It is because of high tech use in teaching learning process. Knowledge Resource Experts, Teacher – Trainers, Students are the main stakeholders of this project.

• Lessons identified

Implementing scientific method of "Project based Learning (PBL)" found useful to create an interest for learning through experience.

Student found anxious about use of ICT tools.

Specialized training about PBL is necessary to the teacher – trainers. Identified skills found suitable for implementation of the project. More development in the activity kits.

Additional time slot is necessary for "Task based learning in English"

Addressing the problems & lessons identified: Using specific knowledge of "Project Based Learning". Writing skills in "Task based learning in English" was concentrated. Would you do something differently in future projects? Yes It can be supported by the different "Social Media Platforms". Use of "Android App" of Activity Kits. Use of "Cloud Storage".

• Good practices:

Integrated use of print and digital media with using different platforms.

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Project Website: www.establish.asia

Google Play link for android app of the activity booklet: <u>https://play.google.com/store/apps/details?id=com.sachi.UNESCO</u> <u>Activity_eBook.AOUHAASDCRAIOOHH</u>

Google Community for Tele-collaboration https://plus.google.com/communities/105632083122771655112

Webpages on the vidyadeep URL http://www.newsite.vidyadeep.org/unesco project 1.html

http://www.newsite.vidyadeep.org/unesco_project.html

UNESCO, Bangkok URL of the project: <u>http://ict.unescobkk.org/groups/telecollaboration-of-teacher-educators/e</u> <u>xperiential-science-task-based-learning-in-englsih</u>

Youtube video Channel of the project: http://www.youtube.com/channel/UC6CvHJjDR77etU7LJ4cQu1g/videos

News: Press coverage of the Project Activities https://picasaweb.google.com/117432143479072117243/Establish6

Online Exhibit pre-preparation workshop https://picasaweb.google.com/117432143479072117243/StudentsWorksh opForOnLineExhibitPreparation02

Exhibition of student Projects <u>https://picasaweb.google.com/117432143479072117243/ESTABLISH5</u>

Student's Workshop: Anant English School https://picasaweb.google.com/117432143479072117243/ESTABLISH4

Student's Workshop: REVK's Shahupuri High School, Shahupuri https://picasaweb.google.com/117432143479072117243/ESTABLISH3

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Student's Workshop: SRPK Girl's High School, Umbraj https://picasaweb.google.com/117432143479072117243/ESTABLISH2

Teacher - Trainers' workshop https://picasaweb.google.com/117432143479072117243/ESTABLISH1

UNESCO, Bangkok workshop: Nov. 2012

https://picasaweb.google.com/117432143479072117243/UNESCOMeetAt Bangkok

Project Supporters

- 1. Dr. Chetana Majgaonkar, Chairman, Satara Education Society, Satara
- 2. Mr. C. N. Shah, Secretary, Satara Education Society, Satara.
- 3. Mr. S. S. Deshmukh, Principal, Anant English School, Satara
- 4. Prof. A. R. Maner, Principal, Satara Polytechnic, Satara
- 5. Dr. Anil Patil, Vice-Chairman, Rayat Shikshan Sanstha, Satara
- 6. Dr. Arvind Burungale, Secretary, Rayat Shikshan Sanstha, Satara
- 7. Dr. Nanasaheb Gaikwad, Joint secretary, Rayat Shikshan Sanstha
- 8. Mrs. U. B. Kale Patil, Headmaster, SRPK Girl's High School, Umbraj
- 9. Mr. Bharat V. Bhosale, President, Rashtriya Ekatmata Vikas Karyasangh, Shahupuri, Satara
- 10. Mrs. S. S. Kshirsagar, Headmaster, Shahupuri High School, Shahupuri,

Project Partners (INDIA)

- 1. Rayat Shikshan Sanstha's Smt. R. P. Kadam Girls' High School, Umbraj
- Rashtriya Ekatmata Vikas karyasangh's Shahupuri High School, Shahupuri
- 3. Satara Education Society's Anant English School, Satara

International Partners

- 1. SMP ITMA Al-Aqobah, INDONESIA
- 2. Athirah Islamic Junior High School, INDONESIA
- 3. Mahaweli National College of Education, Polgolla, Kandy, SRI-LANKA
- 4. National Commission for UNESCO, NEPAL

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Knowledge Resource Experts

1.	ICT activity card for Tele-collaboration	Prof. Dipak Tatpuje
2.	Total Internal Reflection	Mr. Hemant Lagvankar
3.	Feeling 3 – D Flux	Prof. Baba Sutar
4.	CD/DVD Spectroscope (I)	Dr. Arvind Paranjpye
5.	CD/DVD Spectroscope (II)	Dr. Arvind Paranjpye
6.	Maths Activities	Dr. Arvind Ranade
7.	Electromagnetism	Mr. Dinesh Nisang
8.	Lungs Working Model	Mr. Dinesh Nisang
9.	Task based learning in English	Prof. Nisar C. Shaikh
11.	Android app e-book development	Mr. Chetan Akarte

ICT Tools Used

- 1. PDF eBooks
- 2. Android App eBook
- 3. Google Community named ESTABLISH
- 4. YouTube Channel
- 5. Gmail
- 6. Cloud Storage: Google Drive
- 7. Google Play
- 8. Education Community portal of UNESCO, Bangkok
- 9. Website: <u>www.establish.asia</u>
- 10. Online Assessment Tools: <u>www.monkeysurvey.com</u>

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List of the Participated Students

Name of the School: SRPK Girls High School, Umbraj

Teacher – Trainers: Mr. Tanaji Kadam, & Mrs. Shaila Sutar - Lohar

- 1. Miss. Jangam Shivani Sunil
- 2. Miss. Patil Prajkta Vasantrao
- 3. Miss. Gade Priyanka Prakash
- 4. Miss. Patil Amruta Adhikrao
- 5. Miss. Thorat Amruta Satish
- 6. Miss. Jadhav Anjali Satish
- 7. Miss. Chavan Aakansha Jayvant
- 8. Miss. Yadav Kayani Shahajirao
- 9. Miss. Patil Vishranti Shivajirao
- 10. Miss. Jadhav Prajakta Niwas
- 11. Miss. Karanjkar Riddhi Amod
- 12. Miss. Bhasme Vidula Vitthal

Name of the School: REVK's Shahupuri High School, Shahupuri, Satara

Teacher-Trainers: Mr. Jadish Supekar, Mrs. Gita Desai – Bhosale, & Mr. Jagdish Bhosale

- 1. Mr. Bhosale Ashutosh Jagdish
- 2. Mr. Gangavane Shreyas Sharad
- 3. Mr. More Rohit Sanjay
- 4. Mr. Sutar Rohit Rajesh
- 5. Miss. Mohite Prajkta Pradeep
- 6. Miss. Unkule Divya Dipak
- 7. Miss. Khairmode Sanghmitra Dilip
- 8. Miss. Bhosale Mrunal Bharat
- 9. Miss. Barangale Sushrusha Sanjay
- 10. Miss. Velhal Shradhha Rajendra

Name of the School: S. E. Society's, Anant English School, Satara

Teacher – Trainers: Mr. Dipak Sutar, & Mr. Umesh Khole

- 1. Mr. Hasabnis Tejas Gajanan
- 2. Mr. Shah Yash Rajan
- 3. Mr. Palekar Yash Aabasaheb
- 4. Mr. Nigade Chinmay Nandkumar
- 5. Mr. Shaikh Amir Ajij
- 6. Mr. Gaikwad Avdhut Janardan
- 7. Mr. Jagdale Shreeniwas Mahesh
- 8. Miss. Shaikh Sofiya Iqbal
- 9. Miss. Rasal Achala Anil
- 10. Miss. Inamdar Rutuja Prashant
- 11. Miss. Pandit Utkarsha Raj

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Experiential Science & Task Based Learning in English (ESTABLISH) Project of UNESCO, Bangkok

Events

Sr. No.	Activity	Details
1.	Project Theme Development	Telecollaboration Workshop on Reorienting Teacher Education towards EFA and ESD 7-9 November 2012, Imperial Queen's Park Hotel, Bangkok, Thailand
2.	Development of Science Activities: Knowledge Resource Experts	Telecollaborative Tools from 12 th Dec. 2012 to Jan. 2013
3.	Training to the Teacher – Trainers (Seven)	Jan. 2013 VidyaDeep Foundation, Satara
4.	Development of Science Kits, Resources, Android App etc.	Feb. 2013 to April 2013
5.	Students Activity Workshop No. of Students: Twelve	Rayat Shikshan Sanstha's Smt. R. P. Kadam Girls High school, At post Umbraj Tal: Karad Dist: Satara 10 th May 2013
6.	Students Activity Workshop No. of Students: Ten	REVK's Shahupuri High School, Shahupuri, Tal & Dist: Satara 14 th May 2013
7.	Students Activity Workshop No. of Students: Eleven	Satara Education Society's Anant English School, Satara 30 th June 2013
8.	Exhibition of Students Projects	Training Hall, Satara Education Society's LIRC, Mangalwar peth, Satara 1 st August 2013
9.	Students work for preparation of Online Exhibit	Training Hall VidyaDeep Foundation, Satara 11 th August 2013
10.	Evaluation of the Skills developed among the students	Questionnaire Design and analysis Online Questionnaire for feedback 16 th August to 20 th August 2013
11.	Online presence of the Project & Report Writing with findings	Website: <u>www.establish.asia</u> 21 st August to 7 th Sept. 2013
12.	Assessment of the project	Assessment of the Project was done with "21 st Century Learning Design Rubrics" in Presence of International Educational Experts from 12 countries in Hotel Holiday Inn, Bangkok (Thailand) 2 nd to 5 th Oct. 2013

Project Assessment

Levels Achieved by the ESTABLISH Project By using "21st Century Learning Design Rubrics" Tool In Presence of 29 Educational Experts from 12 Countries & 14 Experts – Officials of the UNESCO In Bangkok, Thailand

Learning Activity Dimension	Level Achieved by the	Predefined Top Level
	Project	
Collaboration	5	5
Knowledge Construction	5	5
Self Regulation	3	4
Real World Problem Solving & Innovation	3	4
Use of ICT for Learning	4	5
Skilled Communication	3	4

UNESCO, Bangkok Project: ESTABLISH | 13 Project Report |







UNESCO, Bangkok Project: ESTABLISH | 14 Project Report |

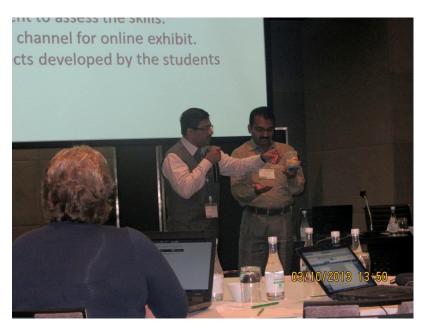






Project Assessment in Bangkok (2nd Oct. to 4th Oct. 2013)

Levels Achieved by the ESTABLISH Project By using "21st Century Learning Design Rubrics" Tool In Presence of 29 Educational Experts from 12 Countries & 14 Experts – Officials of the UNESCO In Bangkok, Thailand



Presentation of the project by Prof. Dipak Tatpuje & Dr. Vaibahv Jadhav



Libing Wang, APEID Unit Head, UNESCO, Bangkok appreciated project activities.

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Presence of 29 Educational Experts from 12 Countries & 14 Experts–Officials of the UNESCO, Bangkok during Project Assessment



Poster Display as a part of Presentation.....



