

## **BEST PRACTICES OF SCERT, WEST BENGAL**

### **1. SETTING UP OF MATHEMATICS LABORATORY IN SCERT (WB) & DIETs AND ALSO PUBLICATION OF TWO MATHEMATICS LABORATORY MANUAL.**

SCERT (WB) has developed and published two Activity books on Mathematics for Mathematics Laboratory, one for elementary and secondary level in Bengali version and another one for higher secondary level in English version by utilizing the state development scheme fund. Both the books are very useful for the students for developing various concepts of mathematics through different activities.

SCERT (WB) has also developed a unique Mathematics Laboratory at SCERT (WB). This lab has enlarged models of ruler, compass, protractor and other instruments used in geometry, of squares and triangles, and of various other objects. It has models to make students understand calculations in an easy manner, and models to teach mental mathematics. To inspire students, pictures of famous mathematicians adorn the walls. All DIETs including their second campuses and few Govt. schools have also setup Mathematics Laboratory under the guidance of SCERT (WB). In this year, SCERT has setup Mathematics Laboratory for the higher secondary stage which will be established in all DIETs in due course. We are very hopeful that our achievement will help to the students and teachers in West Bengal for learning and teaching mathematics in an effective way.

Work in progress in the Mathematics Laboratory room



## **2 SETTING UP OF SCIENCE LABORATORY IN SCERT(WB) AND DIETs**

SCERT (WB) has developed science activity manual for the students of secondary stage under West Bengal Board of Secondary Education curriculum along with setting up activity corner/laboratory at SCERT and DIET, Hooghly by utilizing the state development scheme fund. SCERT (WB) has planned to setup activity corner/ laboratory at other 17 DIETs within this year. In the manual, there are 126 numbers of activities and experiments for the classes of IX and X which can be easily performed by the teachers as well as students themselves. This effort envisions a promotion in the culture of scientific and creative thinking among the students and also help them in the development of their psychomotor skills which they will entail learning by doing.

## **3 DEVELOPMENT OF SOCIAL SCIENCE MANUAL FOR CLASS VI TO X**

SCERT (WB) has prepared an activity based manual on Social Science for the learners of classes 6 to 10. The manual would help the students to learn the subjects in a more attractive manner. This would also help the future teachers who are studying D.El.Ed to impart the lessons in social science in more effective manner. Two separate activity manuals were conceived, one for History and the other for Geography. The subject teachers designed activities for the two manuals. 24 activities were designed for the History manual and 50 for the Geography one. Necessary diagrams, maps were also provided in the Manuals.

## **4 RESEARCH STUDY ON THE EFFECTIVENESS OF THE ONLINE CLASSES**

The COVID- 19 pandemic has changed the teaching learning in a major way and this resulted in shutdown of schools across the world. SCERT (WB) has conducted a study on the efficacy of the online classes. The main objective of the study is to study the effectiveness of the online classes during COVID-19 pandemic situation and to compare the usefulness of face-to-face teaching vis-a-vis online classes. The study founds the following: 56.01% students have responded that the online classes could meet their expectations Only 51% students have responded that online classes are effective as face to face teaching. From the study it is evident that there is no comprehensive alternative to face-to-face mode of

curricular transaction till now.

#### **5. PROFESSIONAL DEVELOPMENT OF THE DIET FACULTIES TOGETHER WITH ONLINE MODELCLASSES FOR REGULAR D.El.ED STUDENTS ( A PROJECT TO REACH OUT TO THE STUDENTS)**

As a measure to control the spread of the novel corona virus, educational institutions have been shut down temporarily. The structure of learning including teaching and assessment methodologies was the first to be affected by these closures. This disruption in the delivery of education is pushing the institutional authorities to figure out how to ensure e-learning solutions and how to tackle the digital divide.

The students enrolled in the professional course like D.El.Ed are the future teachers with a great mission of building a nation. Apart from class lectures and theories, they do need hand-holding support and they do learn to put the acquired knowledge into practice under the supervision of the faculty members of the DIETs. The DIETs in West Bengal have responsibility to educate their trainees in this pandemic situation under the guidance of SCERT, West Bengal. This project entitled 'Reaching out the Learners' is an attempt to facilitate the learners of DIETs in West Bengal through online as well as distance learning mode. To make the project successful multiple interactive class-room videos have been prepared for each theory paper of the D. El. Ed. Curriculum. Generally, learners can't ask questions to make their doubt clear in asynchronous mode. So, the videography of the real class-room (mock-class-room) is used. Also learners' are encouraged to raise questions. The transaction of the lesson is very simple so that students can easily understand. After the transaction of each lesson a feedback form is there for the students.

To make the project successful the following activities are implemented in phased manner:  
Phase-1 : One day meeting was held on 25th January 2021 for planning the project.

Phase-2: A 5 days Workshop was held with 9 Resource persons & 24 Sr. lecturers & lecturers from different DIETs for preparing online demonstration classes. On the first two days Resource Persons discussed modern concepts of education such as critical thinking, creativity, assessment, digital learning , constructivism, communication & collaboration,

learning objectives etc . Then on the basis of this concept, Sr. lecturers & lecturers prepared demonstration classes in presence of 12 D.El.Ed students.

Phase-3: In presence of Director, SCERT and Principals of DIETs all demonstration classes were analysed and on that basis some guidelines were given to prepare online classes & video-recording of them on all subjects. Units of every subject were distributed among all teaching staff & collected.

Phase-4 : After proper editing, the video-recording of these model classes will be uploaded in the website of SCERT for reaching to every student of D.El.Ed Part-1 & Part- 2 of DIETs.

## **6. TEXT BOOK ON D.EL.ED COURSE:**

Textbooks for D.El.Ed course in line with the new curriculum of D.El.Ed that has been continued from 2014 in the state of West Bengal have been prepared by SCERT (WB) for use by the D.El.Ed students and teachers of DIETs and Govt. PTTIs of West Bengal. Total eleven books have been developed by SCERT (WB) and the ISBN number has already been allotted by the ISBN authority “Raja Rammohan Roy agency for ISBN”, Department of Higher Education , MHRD, GoI. These textbooks will be distributed to the D.El.Ed students of DIETs and Govt. PTTIs free of cost.



#### **7. D.El.Ed TEXT BOOKS IN SANTHALI MEDIUM:**

Santhali medium books have been developed for the students of D.El.Ed course of Santhali medium which is currently established and running at the Second campus of DIET Jhargram situated at Ramgarh. This is a great achievement for SCERT (WB) since SCERT(WB) is able to run one unit of D.El.Ed course in Santhali medium for the first time in West Bengal. This will help all the students, teachers and community of Santhali medium to continue their teaching-learning in their mother tongue in a very effective way.

#### **8. RESEARCH STUDY ON ISSUES AND CONCERNS RELATED TO SCHOOL ADOLESCENTS:**

A pilot study titled “Issues and Concerns related to School Adolescents in Jhargram district of West Bengal” was taken up in 2019-20, to study the issues and concerns, and the factors responsible for adolescent issues among school students in Jhargram district of West Bengal. The issues flagged were -

- a) Nutritious food and well being
- b) Safe use of Internet gadgets and media literacy
- c) Substance abuse and its causes and prevention
- d) Process of Growing Up
- e) Personal Safety (physical, mental, emotional and sexual)

The objectives of the study were -

- a) To study the issues and concerns related to school adolescents in Jhargram district of West Bengal.
- b) To study the factors responsible for adolescent issues and concerns among school students in Jhargram district of West Bengal.
- c) To suggest measures to address the issues and concerns related to school adolescents.

The detail report has been uploaded in the portal [www.scertwb.org](http://www.scertwb.org) .

**9. A STUDY ON CAUSES OF DROPOUT AMONG STUDENTS AT ELEMENTARY (FROM CLASS 8 TO 9) AND SECONDARY (FROM CLASS 9 TO 10) LEVELS IN GOVERNMENT/GOVERNMENT SPONSORED /GOVERNMENT AIDED SCHOOL IN WEST BENGAL**

The study has been carried out in survey mode in collaboration with different DIETs of West Bengal for which different questionnaires for different target groups have been developed by SCERT (WB). The questionnaire(s) has been administered in the districts. The data were collected, tabulated and analyzed. Detail report has been uploaded in the portal of SCERT (WB).

**10. ORIENTATION PROGRAMME OF NEWLY RECRUITED LECTURES IN DIETs ORGANISED by SCERT, WEST BENGAL**

In the year 2016, around 34 persons were recruited as lecturers to different DIETs by the Department of School Education, Govt. of West Bengal on the recommendations of the West Bengal Public Service Commission

Team members of SCERT (WB) including the Director and the other officers have taken up visits to the DIETs across the state from December 2017 to have an overall glimpse about the day to day functioning of the DIETs. As an outcome of the visits a requirement was felt to provide induction training to the new members of DIET faculty. Thus a three-day residential orientation programme for the newly recruited faculty had been taken up by SCERT (WB). This orientation programme focused on different academic aspects along with administrative and financial roles, responsibilities. The programme was facilitated by Teacher Educators and experts from the concerned areas.

In all 30 participants attended the Orientation Programme at SCERT (WB) during 23-25 May, 2018 which was conducted with the help from visiting and in-house panelists throughout the three days of the event.

## **11. DATA BASE & COMPUTING TECHNOLOGY FOR TEACHER EDUCATION UNDER “CSSTE”**

A database on Teacher Education has been designed under this project to cater to the diverse needs of the different state-level and national-level organizations regarding faculty members, participants of different In-service/ Pre-service teacher training programmes. Software is in the process of getting developed for creating such an useful data base for ready reference. In this context a mechanism to facilitate the process of yearly uploading of data by all the concerned TEIs is also in the active consideration and initiative has already been taken.

## **12. DIGITIZATION OF SCERT’S LIBRARY**

SCERT has rich library consisting of rare books, journals, magazines, research reports etc. In order to cater to the needs of various stake holders in teacher education the materials in the library have been digitized. The purpose of such digitization is to develop the library as the State Information Centre. Till date around 25,000 books have been digitised. The content is ready and uploaded in the “D-space”. The digitized library is a part of “TEN Project” and could be accessed through the website of SCERT-DIETs. The project is now being implemented in a phased manner to identify the bugs within the project and parallelly the security audit is also going to place it into the cloud server in future. This would help the students, teachers, researchers specially in pandemic situations. Any persons who are interested in education can access SCERT (WB) digital library through the registration from our portal [www.scertwb.org](http://www.scertwb.org)

## **13. DIGITIZATION OF ENGLISH TEACHING–LEARNING MATERIAL**

This project laid stress on the learning and teaching of English up to secondary level. Under this project, lesson plans were designed on the basis of different competencies as prescribed by NCERT. Various applications on ELT were developed both online and off line. The project activities are now aimed towards identifying suitable resource persons for extending to a broader platform.