REGIONAL INSTITUTE OF EDUCATION, AJMER

DEPARTMENT OF EXTENSION EDUCATION

DEVELOPMENT

Under the development category, the approaches, strategies and guidelines for teaching, preparing instructional material, training designs Modules and packages in specific school subjects are developed in workshop mode. The developed material is shared with the SCERT, DIET, educational authorities of the norther region and other institutions. Institute has developed an Environmental Education Theme park for pre-service and in-service teachers. It represents the biodiversity of the region.

The major developmental projects under the department are as follows.

- **Institutional Repository** of Institute
- **Environmental Education Theme Park**
- **"Development and Production of e-Resources"** for the School and Teacher Education Curriculum with special focus on developing e-content for PM e-vidya programme
- "**Muskurata Bachpan**: **Early Childhood Care Education"** in the light of recommendation of NEP 2020
- **Development of Language Lab**
- **Developing Mathematics Lab of Institute**

Year (2022-23)

Title: "Muskurata Bachpan": An Early Childhood Care Education (ECCE)

i) **Name of Project Coordinator:** Dr Rajiv Rajan, Asst Professor (Department of education)

ii) **States/UTs**: DMS, RIE Ajmer

iii) **Focus Areas**: To connect the student of Early Childhood Care Education (ECCE) with Primary education.

iv) **Target Group**: All group of children from 3 to 6 years

v) **Stage:** Foundational stage

vi) Objectives:

a. To connect the student of Early Childhood Care Education (ECCE) with Primary Education.

b. To prepare the students to be a part of learning process before joining the main stream of education.

c. To provide physical, cognitive, psychomotor, linguistic, social, cultural & emotional opportunities through organizing various activities.

d. To develop their maximum ability to adjust themselves in the main stream of education as well as in the society.

e. To make available the education for students of more than three years and less than six years (3-6 years).

f. To make the students aware regarding in and around environment of their surroundings in order to make them understand in a better way.

g. To develop an understanding to live in inclusive environment.

h. To inculcate healthy habits/values among the students

vii) Brief report: The institute has undertaken a leadership role by undertaking the research project "Muskurata Bachpan". The programme prepares the students in their early childhood (aged 3-5 years) in becoming part of the learning process before joining mainstream education. The enrolled pre-primary students interacted in virtual as well as regular class mode. ICT enabled well-equipped classrooms were used for the project. Different educational methods like play way method, storytelling method and learning while doing were used for pragmatic and continuous development of students. Dr Rajiv Ranjan, Asst Professor is the coordinator of the project.

2. Title: Development and production of e-resources for School and Teacher Education Curriculum under PM e-Vidya Digital education Programme

i) **Name of Project Coordinator: Dr Ram Babu Pareek**

ii) **States/UTs: N.A.**

iii) **Focus Areas**: ICT

iv) **Target Group: All**

v) **Stage**: All Stages

vi) **Objectives:**

    a. Capacity building of SRGs on development of e-content

    b. Production of audio, video and digital resources by utilising the studio setup

    c. Deploying digital resources on NROER

    d. Development of online course materials

    e. Dissemination of education media

vii) **Brief report:** The institute has developed 41 e-contents (audio/video) in various subjects for different levels under the programme. The developed programmes were shared on on CIET portal for PM e-Vidya digital channels. Dr R.B Pareek is the coordinator of the programme.

3. Title: Developing the Institutional Repository of RIE,Ajmer

  i)   **Name of Project Coordinator: Dr B.K Jha**

  ii)   **States/UTs: Northern region**

  iii) **Focus Areas**: NA

  iv)   **Target Group**: Entire RIE fraternity

  v)   **Stage**: School and Higher education

  vi)   **Objectives:** Preservation and long-term access to institute's Intellectual contents

  vii) **Brief report:** Institutional repository is an online archive for collecting, preserving, and disseminating digital copies of the intellectual output of a research institution. IR has been developed using Dspace software supported by adequate hardware and human resources. The digitized research projects, report, training and orientation outcomes, reports, student dissertations, faculty research achievements and other documents are being disseminated to promote wider access and visibility of the institute's scholarly content. Dr. B. K. Jha, Deputy librarian is the coordinator of the project. Dr. B. K. Jha, Deputy librarian is the coordinator of the project.

4. Title: Development of Language Lab

  i)   **Name of Project Coordinator:** Dr. Ranjana Nagar

  ii)   **States/UTs: NA**

  iii) **Focus Areas**: Language, Teacher education

  iv)   **Target Group**: NA

  v)   **Stage** : All stages

  vi)   **Objectives:** Capacity Building of Pre-Service and In-Service Teachers in Communicative Skills through Language Lab

  vii) **Brief report:** The institute has developed language lab for promoting language learning. The developed manuals focused on theoretical and practical aspects with LSRW and grammar has transacted among the pre-service teachers of the institute. Dr. Ranjana Nagar, Assistant Professor is the coordinator of the project.

5. Title: Developing Mathematics Lab of Institute

   i)   **Name of Project Coordinator:** Prof. P.K. Chaurasia

   ii)   **States/UTs: NA**

   iii)   **Focus Areas**: Mathematics

   iv)   **Target Group**: NA

   v)   **Stage**: All Stages

   vi)   **Objectives:** The institute has developed the mathematics lab with an endeavor to develop problem solving reasoning, creativity skills and interest among the students

   vii)   **Brief report:** In the lab, brief write-ups for mathematical activities have been prepared covering multiple topics such as solving the problem of money in daily life by using mathematical operations, verifying Euler's relation through the pattern, solving problems in daily life situations involving the addition of fractions, identifying various (3-D) objects like sphere, cube, cuboid, cylinder, cone from the surroundings and many more. Dr. P. K. Chaurasia is the coordinator of the project

6. Title: Development of Environmental Education Theme Park sensitizing school children for generating environmental awareness by Prakriti Mela.

   i)   **States/UTs: NA**

   ii)   **Focus Areas**: NA

   iii)   **Stage**: All Stages

   iv)   **Objectives:**

To maintain the environmental education park that include aquatic, desert and terrestrial ecosystem, a medicinal plant conservatory, a centre for demonstration of non-conventional source of energy, a green house, demonstration of rain water harvesting, conservation of water and soil, organic farming etc.

   a. To demonstrate structure and functions of various ecosystems such as desert, aquatic and man-made.

   b. To understand scientific basis of the functioning of the green house and its utilisation for growth and development of exotic plants.

c. To inculcate environmental related values among students for conservation of water, natural composition of atmosphere and our resources.

d. To conduct Prakriti Mela for awareness and sensitization regarding environmental concerns among school students.

v) Brief report: The institute has developed and projected an environmental theme park for strengthening the biodiversity and environment based school education programmes. The institute has developed and projected an environmental theme park for strengthening the biodiversity and environment based school education programmes.

<u>**Year 2017-2018**</u>

1. Title: Development of Science Park in the Institute

  i)   **States/UTs: NA**

  ii)   **Focus Areas**: Science

  iii)   **Target Group**: General

  iv)   **Stage**: All Stages

  v)   **Objectives:**. a. To create science activity based park in the Institute.

b. To develop an outdoor creative science activities in the campus

vi) Brief report: Science education is an area which could be made easy if things are shown and demonstrated in an interesting way and by play way method. Creation of science corners and

2. Title: Promotion of ICT by developing the Institutional Repository of RIE Ajmer

  i)   **Name of Project Coordinator: Dr B.K Jha**

  ii)   **States/UTs: Northern region**

  iii)   **Focus Areas**: NA

  iv)   **Target Group:**

  v)   **Stage**: School and Higher education

  vi)   **Objectives**: **a.** Preservation and provision for long-term access – The publication would be available on Internet forever.

       b. Students and those who cannot have an access to the published literature, can easily access the research papers over Internet.

(vii) Brief report: Open source library software Dspace will be utilized for the development of the IR. The entire education fraternity will be able to go through the intellectual content of the Institute. A brief report of the resources added every year will be widely disseminated to the school education system so that they can also take advantage of the resources developed and designed by RIE Ajmer faculty. Dr B.K Jha is the coordinator of the project.

3. Title: Developing e-contents of Science text book of Class X of NCERT

   i) **Coordinator: Mr O.P Meena**

  ii) **States/UTs: Northern region**

 iii) **Focus Areas** : Science

  iv) **Target Group: ST**

   v) **Stage: Secondary education**

  vi) **Objectives**

     a. To develop e- content of Science textbook of Class X of NCERT

     b. To develop e-content for making it more learner friendly to enhance learning of students for achieving learning outcomes.

 vii) Brief Report: For the development of e-content of Science, scripts were developed and finalised in three workshops. In all the content from 16 chapters of class 10th Science were selected for writing the scripts for the audio-video recording and developing the e-content. Mr O.P Meena is the coordinator of the programme.

4. Title: Development of Multimedia in Chemistry in Hindi at Senior Secondary Level

   i) **Name of Project Coordinator: Dr R.K Sharma**

  ii) **States/UTs: Northern region**

 iii) **Focus Areas**: ICT

  iv) **Target Group**: General

   v) **Stage**: Senior Secondary (Classes 11-12)

  vi) **Objectives:**

    a. To visualize the concepts of Chemistry using multimedia.

    b. To enrich content of Chemistry through multimedia.

    c. To strengthen pedagogical knowledge in classroom transaction of Chemistry by integrating multimedia.

    d. Development of multimedia in Hindi medium to facilitate the learning of students belonging to northern region of the country

vii) **Brief report:** The aim of the programme was to develop multimedia package on selected topics of chemistry in Hindi at senior secondary level. Dr R.K Sharma is the coordinator of the project.

5. Title: Development of e-content of NCERT English textbook for class IX:

   i) **Name of Project Coordinator:** Dr. Saryug Yadav

   ii) **States/UTs: NA**

   iii) **Focus Areas**: Language, ICT

   iv) **Target Group**:General

   v) **Stage**: (Classes 9-10)

   vi) **Objectives:**

   a. To identify the major concepts in all the chapters/lessons of NCERT English textbook of class IX.

   b. To identify suitable/appropriate formats to design activities/lessons for the delivery of the concepts.

   c. To develop activities/lessons in the select formats on various concepts identified.

   d. To develop scripts for the lessons/activities in the select formats on various concepts.

   e. To develop the final e-content ready for the learner

   vii) **Brief report:** The developed scripts were converted into standard e-content with the help of the existing resources (studio and staff) of the institute. Dr. Saryug Yadav is the coordinator of the programme.

6. Title: Development of Multimedia in Physics in Hindi at Senior Secondary Level:

   i)   **Name of Project Coordinator:** Dr. Ved Prakash Arya

   ii)   **States/UTs: Northern region**

   iii) **Focus Areas**: ICT

   iv)   **Target Group**: General

   v)   **Stage**: All Stages

   vi)   **Objectives:**

   a. To visualize the concepts of Physics using multimedia.

   b. To enrich content of Physics through multimedia.

   c. To strengthen pedagogical knowledge in classroom transaction of Physics by integrating multimedia.

Development of multimedia in Hindi language to facilitate the learning of students belonging to northern region of the country

   vii) **Brief report:** A five days' workshop for translation of scripts already developed in English was organized during February 12-16, 2018. The multimedia is presented in student-teacher interactive mode as well as in demonstration-cum-discussion mode. Dr Ved Prakash Arya is the coordinator of the programme.