

# **REGIONAL INSTITUTE OF EDUCATION, AJMER**

## **DEPARTMENT OF EXTENSION EDUCATION**

### **TRAINING**

The department has organized need-based orientation programmes in collaboration with the state level educational authorities for improving the quality of school education. The various training programmes on the recent thrust areas, such as ICT integrated pedagogy, Experiential Learning Strategies, Research methodology and Data analysis, Artificial Intelligence, Map Making Skills through GIS and GPS, implementation of ECCE in the light of NEP-2020 and attaining Learning Outcomes through ICT have organized for Teachers & Teacher educators, educational administrators and other stakeholders of states/UTs of northern region. The department organized Manodarpan and Sahyog: Programmes on Mental Well-being of Ministry of Education SAHYOG. The department also organized the theme-based conferences, seminars, and consultation meets at regional and national level.

The major conferences/seminars/consultation meets are as below.

- National Seminar on Population Education (2022-23)
- Regional Conference on Toy-Based Pedagogy (2022-23)
- Consultation Workshop with Academic Institute of Higher education and Civil Society groups for the development of NCF (2022-23)
- District Level Consultations for the states/UTs of northern region development of NCF (2022-23)
- Series of Policy-Linking workshop for setting of performance benchmarks for Grade 3 (2022-23)
- Regional Post NAS 2021 Intervention Workshop for the states/UTs of northern region (2022-23)
- Programmes on Implementation of New India Literacy Programme (2022-23)
- National Conference on Emerging Trends in Physics and Physics Education (NCETPPE-2022)
- National Conference on Indian Languages, Arts and Culture (2021-22)
- 8th National Conference on Teacher Learning in Mathematics (2019-20)
- National Conference on Language Pedagogy (NCLP-2019)

- Regional conference on Intellectual Property Rights (2019-20)
- National Seminar on Learning Outcomes (2018-19)

## **Year (2022-23)**

### **1 Capacity Building Programme of SRGs of States/UTs of Northern region on Development of MOOCs**

- (i) Name of Project Coordinator: Dr. Anand Kumar Arya & Dr. Patanjali Sharma
- (ii) States/UTs: States/ UTs of northern region
- (iii) Focus Areas:- (MOOCs, Higher order thinking analysis, Curriculum, Audio – Video, E-Content,)
- (iv) Target Group Programme is meant for CWD, SC/ST, Minority, Girls
- (v) Stage:- Elementary, Secondary
- (vi) Objectives:
  - a. To orient the SRGs of states/UTs of northern region in the development of MOOCs.
  - b. To provide hands-on experience on development of MOOC quadrants; video lecture, e-text material, self-assessment tests and online discussion forum
  - c. To enable SRGs to undertake MOOCs.
- (vii) **Brief report:** The proposed programme provided opportunity to the SRGs for development of their MOOCs proposals. The participants were given hands-on exposure on development of MOOCs quadrants; video lecture, e-text material, self-assessment tests and online discussion forum. The venue was RIE, Ajmer. In the first phase held from 9 January to 13 January 2023, 39 students had participated. The second phase was held from 13 to 15 march 2023 where 26 students participated and both the sessions were coordinated by Dr. Anand Arya.

## **2 Orientation Programme of Key Functionaries and SRGs in Strengthen Vocational Education with reference to NEP 2020**

- (i) Name of Project Coordinator:-** Dr. O.P. Meena
- (ii) States/UTs:-** Delhi Haryana, Rajasthan
- (iii) Focus Areas:-** vocational education
- (iv) Target Group:** All
- (v) Stage :-** Secondary
- (vi) Objectives:**
  - a.** To comprehend various aspects of vocational education and training in schools under NEP 2020;
  - b.** To appraise the roles and responsibilities of key functionaries for effective implementation of vocational courses in schools and to change the general perception and attitude towards vocational education.

### **(vii) Brief report:**

The programme included interactive lecture/presentations, group activities, individual assignments and preparation of action plan. Total of 42 students participated in the programme which was held from 16 January to 20 January 2023 and the session was coordinated by Dr. O. P. Meena Training modules on the different aspects of vocationalisation of school education under Samagra Shiksha were developed for the program. In the beginning of the programme, expectation analysis of the participants was carried out. The programme design was suitably modified based on the result of the training needs analysis.

## **3 Capacity Building programme for the SRGs of Northern of Learning Outcomes through ICT integrated pedagogy at Secondary stage.**

- (i) Name of Project Coordinator:-** Dr. A.K.Nainawat, Associate Professor in Chemistry
- (ii) States/UTs:-** Uttarakhand, J&K, Ladakh and Rajasthan
- (iii) Focus Areas:-** Science, pedagogy
- (iv) Target Group:-** All .
- (v) Stage:-** Secondary, SRG of Chemistry, Physics and Life Sciences
- (vi) Objectives:-**
  - a.** To develop awareness among the SRGs regarding learning outcomes.

b. To enable SRGs in attainment of learning outcomes in Chemistry, Physics and Life Sciences through ICT integrated pedagogy.

c. To enable SRGs to use ICT integrated resource materials for teaching of Chemistry, Physics and Life Sciences

**(vii) Brief report:** The programme was held from 5 December to 9 December 2022. Total of 40 students took part in the programme and the coordinator was Dr. Anil Kumar Nainawat. The programme developed ICT integrated material based on learning outcomes procured from CIET, NCERT and the same material was used for capacity building programme to achieve learning outcomes. Faculty members of RIE were involved in the programme.

#### **4. Title:- Capacity Building of SRGs in the Experiential Learning Strategies in Science at Secondary Level**

**(i) Name of Project Coordinator:-** Dr. R. K. Sharma, Assistant Professor in Chemistry

**(ii) States/UTs:-** Ladakh

**(iii) Focus Areas:-** Students, teachers and teacher educators.

**(iv) Target Group:-** NA

**(v) Stage:-** NA

**(vi) Objectives:** To develop competence in SRGs in Experiential Learning Strategies in Science at Secondary Level

**(vii) Brief report:** The sessions of the programme were planned in a way to give hands on learning experience to the SRGs considering the important aspects of experiential learning like Concrete Experience, Reflective Observation, Abstract Conceptualization. Dr. R.K. Sharma was the coordinator and it was held from 12 December to 16 December, 2022. Various aspects of experiential learning were included in the programme. Accordingly, a five-day capacity building programme on Experiential Learning Strategies was conducted for SRGs of UTs of J&K and Ladakh.

**5. Title:- Capacity building of the faculty of DIET's and SCERT in Research methodology and Data analysis**

- (i) **Name of Project Coordinator:-** Dr. Muzammil Hasan, Assistant Professor
- (ii) **States/UTs:-** Delhi, Rajasthan, Ladakh and Jammu and Kashmir
- (iii) **Focus Areas** (Research, Evaluation, Mathematics)
- (iv) **Target Group:-** DIETs and SCERT faculty
- (v) **Stage** (Foundational stage, Preparatory Stage, Middle Stage, Secondary (Classes 9-10), Secondary (Classes 11-12), All Stages)

**(vi) Objectives:-**

- a. To orient the KRP's about Research Methodology
- b. To enable them to analyse data and its interpretation.
- c. To enable them to prepare research proposal and undertake researches.

**(vii) Brief report:** Focus of the Programme was on various types of educational research and data analysis. The programme was held at 2 venues at RIE Ajmer and SCERT Kashmir Division where 26 and 37 participants respectively took part. It was coordinated by Dr. M. Hasan. The Programme was for both the states Delhi and Rajasthan.

**6. Title: Capacity building programme for SRGs on Artificial Intelligence**

- (i) **Name of Project Coordinator:** Dr. Ved Prakash Arya
- (ii) **States/UTs:** Uttarakhand
- (iii) **Focus Areas:** Stage of education to which the programme is meant - Secondary  
Beneficiaries: Teachers, Teacher Educators and Students
- (iv) **Target Group:-** NA
- (v) **Stage** (Foundational stage, Preparatory Stage, Middle Stage, Secondary (Classes 9-10), Secondary (Classes 11-12), All Stages) **(viii).**

**(vi) Objectives:**

- a. To Introduce with the broad canvas of Artificial Intelligence as per NEP2020 perspectives
- b. To use AI's disruptive potential for the education of School children
- c. To suggest concerted pedagogical initiatives by using AI.

**(vii) Brief report:** The programme involved NIE, RIEs, CIET and Other collaborating institutions SCERTs, SIEs , Universities, Colleges. It was coordinated by Dr. Ved Prakesh Arya and was held between 30 January to 3 February2023. The policy advocated for the introduction of Artificial Intelligence at relevant stages for preparing professionals with sound technical abilities. There was a need expressed from Uttarakhand state for a capacity building programme for SRGs in Artificial Intelligence. Keeping above in the view, this programme was proposed. The total number of participants were 29.

**Year (2021-22)**

**1. Title: Capacity Building of SRGs on the use of Learning Outcomes through ICT integrated pedagogy in teaching of Physics**

**(i) Name of Project Coordinator:** Dr. Rana Pratap

**(ii) States/UTs:**

**(iii) Focus Areas** (Science, Language, Social Science, Examination reforms, Evaluation, Text Books, Gender/Girls, Higher order thinking analysis, ECCE – Foundational Literacy and Numeracy, ICT, Teacher Education, Curriculum, Audio – Video, E- Content, Vocational, Adult Education, Mathematics)

**(iv) Target Group** (SC, ST, Minorities, Special needs, Transgender, Girls & Women, Children Out of school children/School dropouts, General)

**(v) Stage** (Foundational stage, Preparatory Stage, Middle Stage, Secondary (Classes 9-10), Secondary (Classes 11-12), All Stages)

**(vi) Objectives: (Research questions for research study)**

**(vii) Brief report:** A five-day capacity building programme entitled 'Capacity Building of SRGs on the use of Learning Outcomes through ICT integrated pedagogy in the teaching of Physics' was organised through virtual mode during 17<sup>th</sup> -21<sup>st</sup> January 2022 under Dr. Rana Pratap. The two days was planned to discuss various aspects on generic issues such as NEP-2020, ICT, Learning Outcomes, importance of games and sports for holistic development of learners. The remaining three days was planned to discuss various concepts of physics teaching in the light of ICT pedagogy in reference to LOs. The feedback of the programme was also taken which indicated satisfaction of participants. A total number of 57 participant participated in programme out of 60 invited.

**2. Capacity building of KRPs in Map Making Skills through GIS and GPS**

**(i) Name of Project Coordinator:** Dr. Albert Horo

**(ii) States/UTs:** Haryana and Jammu & Kashmir UT

**(iii) Focus Areas** (Science, Language, Social Science, Examination reforms, Evaluation, Text Books, Gender/Girls, Higher order thinking analysis, ECCE – Foundational Literacy and Numeracy, ICT, Teacher Education, Curriculum, Audio– Video, E- Content, Vocational, Adult Education, Mathematics)

**(iv) Target Group** (SC, ST, Minorities, Special needs, Transgender, Girls & Women, Children Out of school children/School dropouts, General)

**(v) Stage** (Foundational stage, Preparatory Stage, Middle Stage, Secondary (Classes 9-10), Secondary (Classes 11-12), All Stages)

**(vi) Objectives: (Research questions for research study, if any)**

**(vii) Brief report:** A five-day capacity building programme was organised for Map making Skills through GIS and GPS during Nov 08-12, 2021 through virtual mode. The project coordinator was Dr. Albert Horo. There were 10 sessions in total conducted with 7 Resource Persons in this online training programme. Around 100 participants registered for the programme from Haryana and Jammu & Kashmir UT.

### **3. Capacity Building of SRGs (State Resource Groups) on implementation of ECCE in the light of NEP-2020**

**(i) Name of Project Coordinator:** Dr. Rajiv Ranjan, Dr. Meenakshi Meena

**(ii) States/UTs:**

**(iii) Focus Areas** (Science, Language, Social Science, Examination reforms, Evaluation, Text Books, Gender/Girls, Higher order thinking analysis, ECCE – Foundational Literacy and Numeracy, ICT, Teacher Education, Curriculum, Audio – Video, E- Content, Vocational, Adult Education, Mathematics)

**(iv) Target Group** (SC, ST, Minorities, Special needs, Transgender, Girls & Women, Children Out of school children/School dropouts, General)

**(v) Stage** (Foundational stage, Preparatory Stage, Middle Stage, Secondary (Classes 9-10), Secondary (Classes 11-12), All Stages)

**(vi) Objectives: (Research questions for research study, if any)**

**(vii) Brief report:** The training programme was conducted in the month of March 2022. Dr. Rajiv Ranjan, Dr. Meenakshi Meena were the coordinator for the program. The program focused on promoting academic learning environment and professional development amongst the faculty. The participants in the programme were 22.



#### **4. Capacity Building of State Resource Group (SRGs) of Northern Region on the use of Learning Outcomes through ICT integrated pedagogy in teaching of Chemistry, Mathematics and Life Sciences**

**(i) Name of Project Coordinator:** Dr. O.P. Meena, Dr. Patanjali Sharma, Dr. A.K. Gupta **(ii)**

**(ii) States/UTs:**

**(iii) Focus Areas** (Science, Language, Social Science, Examination reforms, Evaluation, Text Books, Gender/Girls, Higher order thinking analysis, ECCE – Foundational Literacy and Numeracy, ICT, Teacher Education, Curriculum, Audio – Video, E- Content, Vocational, Adult Education, Mathematics)

**(iv) Target Group** (SC, ST, Minorities, Special needs, Transgender, Girls & Women, Children Out of school children/School dropouts, General)

**(v) Stage** (Foundational stage, Preparatory Stage, Middle Stage, Secondary (Classes 9-10), Secondary (Classes 11-12), All Stages)

**(vi) Objectives: (Research questions for research study, if any)**

**(vii) Brief report:** A five-day capacity building programme entitled Capacity Building of State Resource Group (SRGs) of Northern Region on the use of Learning Outcomes through ICT integrated pedagogy in the teaching of Chemistry, Mathematics and Life Sciences was organised through virtual mode during 17<sup>th</sup> -21<sup>st</sup> January 2022. First two days was planned to discuss various aspects on generic issues such as NEP-2020, ICT, Learning Outcomes, importance of games and sports for holistic development of learners. The remaining three days was planned parallel to discuss various concepts of chemistry, Mathematics and Life science teaching in the light of ICT pedagogy in reference to LOs. The feedback of the programme was also taken which indicated satisfaction of participants. A total number of 170 participants participated in the programme.

**Year (2020-21)**

**1. Title: Capacity Building on Methodology of educational research for the faculty of DIETs belonging to SC, ST and Minority concentrated areas.**

**(i) Name of Project Coordinator: Dr. Muzammil Hasan, Dr. Meenakshi Meena and Dr. O.P. Meena**

**(ii) States/UTs: Rajasthan, U.P. Punjab, Himachal, Haryana**

**(iii) Focus Areas** (Science, Language, Social Science, Examination reforms, Evaluation, Text Books, Gender/Girls, Higher order thinking analysis, ECCE – Foundational Literacy and Numeracy, ICT, Teacher Education, Curriculum, Audio – Video, E- Content, Vocational, Adult Education, Mathematics)

**(iv) Target Group:-** SC, ST, Minorities

**(v) Stage:-**Primary and Upper primary, Teacher educators and Teachers.

**(vi) Objectives:-**

- a.** To develop conceptual understanding about educational research paradigm in KRPs in relation to their field of work.
- b.** To develop the understanding in KRPs about the research process, research design and research methods.
- c.** To develop the understanding in KRPs to prepare the research proposal.
- d.** To Provide a forum to KRPs to present their research work carried out in the field.

**(vii) Brief report:** This programme focused on re-search as an essential process from epistemological and developmental point of view related to any field of work. The latter part this training was designed in the areas of data structuring, analysing and interpreting these data for developing the research competency of professionals working in DIETs. The program was coordinated by **Dr. Meenakshi Meena and Dr. O.P. Meena.**