

# **REGIONAL INSTITUTE OF EDUCATION, AJMER**

## **DEPARTMENT OF EXTENSION EDUCATION**

### **EXTENSION**

The Department has the responsibility of looking after different extension programmes related to research, development of instructional material and training/ capacity building programme/ Seminars/ Conferences/ Consultation workshop/ Meets. The department caters the educational needs for 10 states/UTs of Northern region. It is responsible for liaising with the SCERTs and Department of Education of the States/UTs of the Northern region through a team of the state coordinators. The needs in terms of research, development and training are collected every year for academic support to the states and Institute for organized programmes, accordingly.

### **Role Perception of the Department**

The Department has the following role perception:

- Catering the educational needs to the states/UTs of Northern Region
- Extending need based academic support for In-service programmes pertaining to research, development and training to the states/UTs.
- Working as monitoring agency for implementation of centrally sponsored and national schemes related to NEP and NCF
- Undertaking researches envisaged in NEP 2020
- Developing approaches, strategies and guidelines for preparing instructional material
- Organizing programmes in collaboration with the state level educational authorities to find out interventions and strategies for improving the quality of school education.
- Organizing need-based orientation programmes for strengthening faculties of DIETS/SCERTs and educational authorities of States/UTs.
- Liaising and communicating with the States/UTs, for participation in programmes as per the directions of the NCERT, such as; Yoga Olympiad, Learning Outcomes, programmes related to NEP2020 and National Curriculum framework.
- Undertake programme related to research, development and training activities. Preparing reports for the NCERT pertaining to all the PAC programmes, Including write-up for the Annual Reports of NCERT, monthly progress reports, mid-term progress reports etc.

- Collecting and compiling programme proposals for presentation in the meetings of IAB, Management committee and PAC, every year.
- Organizing Extension Lectures of Eminent Educationists and Expression Series on Eminent Personalities
- Providing platform for peer learning; Educational Trend (A Journal of RIE, NCERT, Ajmer)
- Facilitating theme-based capacity building programmes, meetings, seminars, workshops and conferences organized by the Institute.
- The faculty members of the department are also engaged in teaching and academic activities with other departments of the Institute.

The major extension related activities conducted by the Institute in the last five years are as follows:

- Educational Trend (A Journal of RIE, NCERT, Ajmer) (2022-23)
- Expression Series on Eminent Personalities (2022-23)
- Extension Lectures of Eminent Educationists (2022-23)
- National Seminar on Population Education (2022-23)
- Workshop for Heads and coordinating teachers of Co-operating schools for Internship (2022-23)
- Execution and Maintenance of Mathematics Lab at RIE, Ajmer (2022-23)
- Consultation Workshop with Civil Society Groups (2022-23)
- Organizing District Level Consultations for the development of NCF (2022-23)
- Series of Policy-Linking workshop for setting of performance benchmarks for Grade 3 (2022-23)
- Organizing Regional Conference on Integration of Toy Based Pedagogy (TBP) for Foundational and Preparatory Stages of Education (2022-23)
- Regional Post NAS 2021 Intervention Workshop (2022-23)
- Programmes on Implementation of New India Literacy Programme (2022-23)
- Manodarpan and Sahyog: Programmes on Mental Well-being of Ministry of Education SAHYOG (2022-23)
- Educational Trend (A Journal of RIE, NCERT, Ajmer) (2021-22)
- Expression Series on Eminent Personalities (2021-22)
- Extension Lectures of Eminent Educationists (2021-22)

- Workshop for Heads and coordinating teachers of Co-operating schools for Internship (2021-22)
- Execution and Maintenance of Mathematics Lab at RIE, Ajmer (2021-22)
- National Conference on Indian Languages, Arts and Culture (2021-22)
- Organizing National Webinar on National Education Policy 2020: Exploring Transformational Implementation in School Education (2021-22)
- National Conference on Emerging Trends in Physics & Physics Education (NCETPPE-2022) organized (2021-22)
- Educational Trend (A Journal of RIE, NCERT, Ajmer) (2020-21)
- Expression Series on Eminent Personalities (2020-21)
- Extension Lectures of Eminent Educationists (2020-21)
- Workshop for Heads and coordinating teachers of Co-operating schools for Internship (2020-21)
- Execution and Maintenance of Mathematics Lab at RIE, Ajmer (2020-21)
- Institute Environmental Theme Park (2020-21)
- Organization of Capacity building programme for DIET and SCERT Faculties on Research Methodology and Data Analysis (2020-21)
- Educational Trend (A Journal of RIE, NCERT, Ajmer) (2019-20)
- Expression Series on Eminent Personalities (2019-20)
- Extension Lectures of Eminent Educationists (2019-20)
- Workshop for Heads and coordinating teachers of Co-operating schools for Internship (2019-20)
- National Conference on teaching learning in Mathematics (2019-20)
- National Conference on Language Pedagogy (2019-20)
- Bi-Annual Journal on Educational Trends (2018-19)
- Expression Series on Eminent Personalities (2018-19)
- Extension Lectures of Eminent Educationists (2018-19)
- Conference cum-Workshop for Heads and coordinating teachers of Co-operating schools for Internship (2018-19)
- National Seminar on Learning Outcomes (2018-19)

**Year (2022-23)**

**1. Title: Educational Trend (A Journal of RIE, NCERT, Ajmer)**

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

**(ii) States/UTs:** National

**(iii) Focus Areas:** Multidisciplinary Educational Research

**(iv) Target Group:** Researchers, Educationists, teachers, and researchers working in all fields of education.

**(v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education

**(vi) Objectives:**

- a. To facilitate sharing, documentation, and dissemination of the research work.
- b. To motivate the faculty members to undertake research, create research culture and publish research work.
- c. To encourage States/UTs departments of the region to participate, share and publish research work.

**(vi) Brief report:** The Institute is publishing its journal 'Educational Trend (A Journal of RIE Ajmer)' for disseminating, facilitating, sharing, and documenting the researches in education. The journal provides a platform for the researchers of the States/UTs departments to participate, share and publish their research works. Research papers/articles were invited in the month of May 2022, and were critically assessed in an editing and proof-reading workshop held from July 04-08, 2022. The draft of volume 3, no. 1 & 2 of the Journal are ready for copyright and publication. The journal has been allotted RNI Number. For publication of research papers, the manuscript should be sent to 'Editor, Educational Trend (A Journal of RIE, NCERT, Ajmer). Prof. Rajesh Mishra, Dean of Instructions & Dr. BK. Jha, Deputy Librarian are the coordinators of the programme.

## 2. Title: Expression Series on Eminent Personalities

(i) **Name of Project Coordinator:** Sh. Sartaj Singh, PGT (History)

(ii) **States/UTs:** DMS Ajmer (Rajasthan)

(iii) **Focus Areas:** Students, Student Teachers, Teachers, and Teacher Educators.

(iv) **Target Group:** Students of DM School, Ajmer

(v) **Stage:** School Level

(vi) **Objectives:**

- a) To promote preserving cultural heritage.
- b) To promote literary activities among students,
- c) To enhance research skills of students,
- d) To bring out the creative expression of students,
- e) To promote value of national integrity,
- f) To create awareness among students about issues related to national development,
- g) To encourage students to reflect upon the issues related to their lives,
- h) To create awareness among students regarding Contribution of freedom fighters to

(vii) **Brief report:** Under the Expression series on eminent personalities, the DMS organized 7 lectures on various occasions. For the year 2022-23, the various competitions such as essay, poster making, role play, Quiz, rally and Fit India Freedom Run 3.0 etc. were also organized on these occasions. Sh. Sartaj Singh. PGT, DMS, Ajmer is the coordinator of the programme. The details of lectures are as follows:

Occasion	Speakers
Expression Series on Dr. Sarvepalli Radhakrishnan (Teachers day, September 5, 2022)	Dr. Vinod sharma (CEO and co-founder of Brainywood)
Expression Series on Mahatma Gandhi (Oct 02, 2022)	Dr. Vinod Teckchandani, Principal GSSS Harrajpura, Masuda Ajmer
Expression Series on Sardar Vallabh Bhai Patel (National Unity Day, Oct 31, 2022)	Dr. Anoop Kumar Atre, SPGC, Ajmer
Expression Series on Moulana Abul Kalam Azad (National Education Day, Nov 11, 2022)	Prof. Reena Vyas, SPCGC, Ajmer
Expression Series on Constitution Day (Nov 26, 2022)	Dr. Manoj Awasthi, SPCGC, Ajmer

Expression Series on Srinivasa Ramanujan Aiyangar (National Mathematics Day, Dec 22, 2022)	Ms Chhavi Sharma, RPS
Expression Series on the occasion of National Youth Day, January, 12, 2023	Dr. Swatantra Sharma Head, Swami Vivekanad Center

### 3. Title: Extension Lectures of Eminent Educationists

(i) **Name of Project Coordinator:** Prof. R.B. Pareek

(ii) **States/UTs:** National Northern Region

(iii) **Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators, Students

(iv) **Target Group:** Students and Faculty of RIE and DMS, Ajmer

(v) **Stage:** All Stages of School Education

(vi) **Objectives:**

- a. To provide a Forum to students and faculty for academic interaction with eminent educationists in the highlighting the implications of NEP-2020
- b. To enlighten the students and Faculty about New Education Policy 2020 and its importance in the field of Education.
- c. To enrich the knowledge and understanding of students on various issues of educational importance with reference to life and contributions of eminent educationists in the field of education.

(vii) **Brief report:** The Institute organized series of Extension lectures of Eminent Educationists to provide a platform to the students and faculty members for an academic interaction with eminent educationists. In this series, eminent educationists are invited to deliver lectures and share knowledge regarding prominent issues of the contemporary times. The programme is aimed to promote academic excellence and to encourage innovative thinking and research. For the year 2022-23, the theme for the Extension lectures was the application aspects of NEP 2020 emphasizing upon “Orientation for Professional Development”. Total seven extension lectures were delivered on various themes by eminent educationists. The lectures were:

- Green Schools- Responsible Education for Sustainable Future by Virendra Rawat, Originator of Green School & Green University on July 29, 2022
- Reforms in Teacher Education in the Light of NEP, 2020 by Prof. Divya Nagar, former Vice Chancellor at Rajasthan Vidhyapeeth in Udaipur on August 30, 2022
- Reimagining Vocational Education envisioned in NEP 2020 by Prof. Rajesh P. Khambhayat, Former Joint Director, PSSCIVE & NTTTR, Bhopal (September 01, 2022)
- Changing Course, Transforming Education, by Prof. R. P. Tiwari, Vice Chancellor, Central University of Punjab (November 11, 2022)
- Minority Education in the Light of NEP 2020 Aizaz Ahmed, District Minority Welfare Officer, Ajmer (December 12, 2022)
- Mathematical aspects of NEP 2020 by Prof. G. Ravindra, Former Director, NCERT, (January 17, 2023)
- Global science for global well-being by Dr. Sudhir Kumar Mishra, Distinguished Scientist & Former Director General (Brahmos), DRDO, (February 28, 2023)

#### **4. Title: National Seminar on Population Education**

**(i) Name of Project Coordinator:** Dr. Ashwani Kumar Gupta

**(ii) States/UTs:** National

**(iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators

**(iv) Target Group:** Educationists, teachers and researchers working in all fields of education

**(v) Stage:** All Stages of Multidisciplinary School Education

**(vi) Objectives:**

- a. To provide a forum to the population education researchers, teachers, and teacher educators to share their research work, innovative practices, and emerging trends in Multidisciplinary Education.
- b. To make recommendation for future course of action for the promotion of Quality School Multidisciplinary Population Education in the country.
- c. To document the best practices and researches in the field of School Multidisciplinary Education and to disseminate these with all stakeholders.

**(vii) Brief report:** The Institute organised a 3-day National Seminar on Population Education from Nov 15 to Nov 17, 2022. The seminar was organized with the objective to provide a platform for all the stakeholders to share their experiences, researches, and innovative

practices. During the national seminar, 12 parallel technical sessions apart from 3 Plenary lectures and 6 keynote addresses were organized. Prof. Anil Kumar Shukla, Vice Chancellor, MDS University, Ajmer was the chief guest and Prof. Rajiv Ratan Sharma Dean, University of Jammu, was the guest of honor. The inaugural address of the seminar was delivered by Professor S.V Sharma, Principal RIE, Ajmer. A two-day workshop was organised and three external resource persons provided their valuable inputs and comments during the workshop. Total 83 (19 internal & 64 external) participants presented their research papers. The major issues that were highlighted in the seminar were population education, need and importance, role of education in moderating population growth, analysis of gender perspective in NEP 2020. The Chief Guest for the valedictory session was Prof. K.K Sharma, former Vice Chancellor, MDSU Ajmer whereas Dr. T.R Raina and Dr. R.M Mohla were the Guests of Honor. Prof. S.V Sharma, Principal, RIE Ajmer gave the valedictory speech on the successful completion of the seminar. Dr. Ashwani Kumar Gupta, Assistant Prof. of Zoology, was the organising secretary of the National Seminar.

## **5. Title: Workshop for Heads and coordinating teachers of Co-operating schools for Internship**

**(i) Name of Project Coordinator:** Prof. Rajesh Mishra

**(ii) States/UTs:** National

**(iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators

**(iv) Target Group:** Cooperating school Heads/Principals and teachers

**(v) Stage:** Upper Primary and Secondary

**(vi) Objectives:**

- a.** To provide them a forum to share their past experiences and expectations from the trainees and the Institute.
- b.** To make them aware about the objectives, the process and importance of internship.
- c.** To orient the Heads and teachers of co-operating schools about Observation tool, and various assignments to be completed by Interns during Internship including; writing of Reflective journal, observation of lessons of teachers and peer trainees' participation in various school activities etc.



- d. To Orient the cooperating school teachers and Heads about their roles and responsibilities during internship
- e. To facilitate their interaction with the trainees who are being placed in their schools.

**6. Title: Execution and Maintenance of Mathematics Lab at RIE, Ajmer**

**(i) Name of Project Coordinator:** Prof. P.K. Chaurasia and Dr. Patanjali Sharma

**(ii) States/UTs:** National/ Regional

**(iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators

**(iv) Target Group:** Students, Teachers, Teacher Educators

**(v) Stage:** All stages

**(vi) Objectives:**

- a. To remove the weaknesses of present-day mathematics education with the mathematics laboratory.
- b. To develop the much-needed confidence in students.
- c. To generate interest in the mathematics.
- d. To make the students divergent thinkers.
- e. To develop problem solving, reasoning and creativity skills among the students.

**(vii) Brief report:** The Institute has developed the mathematics lab with an aim to develop problem solving reasoning, creativity skills and interest among the students. In this regard, brief write-ups for mathematical activities have been prepared covering multiple topics. The lab exhibits the models of level specific LOs. In the lab, "RIEA Maths" App has also developed which aims to provide is a digital solution for learning Mathematics. The "RIEA Maths" app is developed to teach basic concepts of Mathematics at the level of middle and secondary education. It offers a better Mathematical solution in a three-dimensional way for class 9 and 10 students, allowing them to explore their creativity and constructive knowledge. With this application, students can go beyond the textbook and increase their knowledge through activities. Dr. P. K. Chaurasia, Professor of Mathematics is the coordinator of the project.

## **7. Title: Consultation Workshop with Civil Society Groups**

**(i) Name of Project Coordinator:** Prof. S. V. Sharma

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

**(iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators

**(iv) Target Group:** Teachers, Teacher Educators, Researchers

**(v) Stage:** All stages

**(vi) Objectives:** To develop the National Curriculum Framework following NEP-2020

**(vii) Brief report:** The Institute organized three Consultation Workshops of Academic Institutions and Civil Society Groups for Northern region for the development of National Curriculum Frameworks with reference to NEP 2020. The Consultation Workshop was organized to discuss and consult civil society groups for evolving qualitative inputs on meaningful linkages between School Education and Higher Education. The consultation meets were organized at University of Lucknow, Lucknow on Aug 10, 2022, Punjab University, Chandigarh on Aug 14, 2022 and Central University of Jammu, Jammu on August 17, 2022. The workshop at Punjab University, Chandigarh was inaugurated by Hon'ble Governor Punjab and Administrator Chandigarh Sh. Banwarilal Purohit. The Institute faculty Prof. S. V. Sharma, Prof. Rajesh Mishra, Prof. Ayushman Goswami, Prof. Ram Babu Pareek, Dr. Anand Arya and Prof. Saryug Yadav, DEL, NCERT participated in the consultation workshops. Prof. S. V. Sharma, Principal, RIE, Ajmer coordinated the consultation meets.

## **8. Title: Organizing District Level Consultations for the development of NCF**

**(i) Name of Project Coordinator:** Prof. S. V. Sharma

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

**(iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators

**(iv) Target Group:** Teachers, Teacher Educators, and Researchers

**(v) Stage:** All stages

**(vi) Objectives:** To develop the National Curriculum Framework following NEP-2020.

**(vii) Brief report:** For developing the National Curriculum Framework following NEP-2020, the Institute conducted District Level Consultations (DLCs) in the states/ UTs of northern region. The Institute organized 15 DLCs in 10 states/ UTs of northern region. In the states of Haryana, Delhi, Himachal Pradesh and Punjab, and UT; Ladakh and Chandigarh one DLCs

was organized, while 2 DLCs were conducted for the states of Uttarakhand and Rajasthan, and UT Jammu & Kashmir and 3 DLCs were conducted for Uttar Pradesh. The DLCs were organized in collaboration with SCERTs of the states/UTs. The meets were coordinated by the nominated NCERT nodal officers and organized as per the guidelines and schedule provided by the council. The NCERT authorities also visited the meets. Prof. Dinesh Prasad Saklani, Honorable Director, NCERT graced the DLCs of the state of Uttarakhand at Dehradun and Tehri and interacted with the participants. Prof. S. V. Sharma, Principal, Regional Institute of Education, Ajmer visited the DLCs for Rajasthan state at Jodhpur and Uttar Pradesh State at Kanpur. He briefed the participants about NEP-2020 themes for NCF development regarding the DLCs. In the meets organized by the Institute, there were 1092 participants in all categories who participated and gave their valuable inputs, comments, and suggestions on the prescribed questions. The consultations were also covered by the leading electronic and print media. The state coordinator of states/UTs coordinated the DLC meets.

### **9. Title: Organizing Regional Conference on Integration of Toy Based Pedagogy (TBP) for Foundational and Preparatory Stages of Education**

**(i) Name of Project Coordinator:** Prof. Sandhya Sangai, Dr. Romila Soni and Dr. Anand Arya

**(ii) States/UTs:** Northern Regional

**(iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators

**(iv) Target Group:** Students, Teachers, Teacher Educators, and Researchers

**(v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education.

**(vi) Objectives:** To provide a platform to the States/ UTs of the Northern Region to present how indigenous and local toys can be used for the classroom process.

**(vii) Brief report:** A two-day Regional Conference on Toy-Based Pedagogy for the foundational and preparatory stage of education for the states/UTs of northern region was organized in the Institute during November 29-30, 2022. The conference aimed at providing a platform to the States/ UTs of the Northern Region to present how indigenous and local toys can be used for the classroom process. The participants of 10 states/UTs presented their regional toys and their use in teaching-learning process. The participants and the resource

persons from NCERT interacted and discussed various issues on implementation of local toys and games in teaching-learning methodologies. The conference had eight sessions on various themes for integration of toys and games such as Toy-based pedagogy and NEP 2020, integration of regional toys/games/plays for foundational and preparatory learning, presentation by States/UTs, Exhibition of Toys/Games/Plays, Practicing Toy Based Pedagogy: Theory to Practice, Toys, Games and Play in the Child's World of Learning and Linking Learning Outcomes, Concept with Toy Based Pedagogy. During the conference, an exhibition of Toys for Foundational Stage was organized. More than 110 participants of northern region and students of RIE, Ajmer, presented the toys used in teaching-learning process in the exhibition. The regional conference was organized in association with Department of Elementary Education, NCERT, New Delhi. Prof. Sandhya Sangai, Dr. Romila Soni and Dr. Anand Arya were the coordinators for the regional conference.

#### **10. Title: Series of Policy-Linking workshop for setting of performance benchmarks for Grade 3**

**(i) Name of Project Coordinator:** Prof. S. V. Sharma & Dr. Anand Arya

**(ii) States/UTs:** National

**(iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators

**(iv) Target Group:** Students, Teachers, Teacher Educators, and Researchers

**(v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education.

**(vi) Objectives:** To assess the learning level for foundational numeracy and literacy amongst learners of grade 3.

**(vii) Brief report:** The system of standard setting is crucial as it improves the interpretability of assessment results and provides a framework for determining learning targets and clarity to the policy making and policy evaluation agenda. Keeping in this view, a workshop for setting of performance benchmarks for Grade 3 during June 21, 2022 to June 24, 2022 was organised in the Institute. In the workshop, the standard-setting and benchmarking exercises were conducted based on the data collected by Foundational Learning Study (FLS) across all Indian States and Union Territories by ESD, NCERT. The Foundational Learning Study (FLS) was conducted to assess the learning level for foundational numeracy and literacy amongst

learners of grade 3. Prof. Indrani Bhaduri, Head, ESD, NCERT was the coordinator of the workshop. Prof. S. V. Sharma & Dr. Anand Arya were the local coordinators of the workshop.

### **11. Title: Regional Post NAS 2021 Intervention Workshop**

**(i) Name of Project Coordinator:** Prof. S. V. Sharma & Dr. Anand Arya

**(ii) States/UTs:** Regional

**(iii) Focus Areas:** Multidisciplinary Education

**(iv) Target Group:** Students, Teachers, Teacher Educators, and Researchers

**(v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education.

**(vi) Objectives:**

- a. To understand NAS 2021 report i.e., the District, State, and the National reports,
- b. To plan the state and district level interventions
- c. To mitigate the identified learning gaps as called out from the NAS reports,
- d. To ensure dissemination and understanding of the reports at the District Level

**(vii) Brief report:** With the objective to understand NAS 2021 report i.e., the District, State, and the National reports, to plan the state and district level interventions, to mitigate the identified learning gaps as called out from the NAS reports and to ensure dissemination and understanding of the reports at the District Level by the DEOs, BRCs, CRCs, pedagogy experts and classroom teachers, a 2-day post NAS Intervention workshop was organized at the Institute during July 14-15, 2022. The programme was organized by ESD, NCERT, New Delhi. Prof. Indrani Bhaduri, Head, ESD, NCERT was the coordinator of the workshop. Prof. S. V. Sharma & Dr. Anand Arya were the local coordinators of the workshop.

### **12. Title: Programmes on Implementation of New India Literacy Programme**

**(i) Name of Project Coordinator:** Prof. Usha Sharma & Dr. Anand Arya

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

**(iii) Focus Areas:** Multidisciplinary Education

**(iv) Target Group:** SCERT and DIET faculties

**(v) Stage:** All Stages

**(vi) Objectives:** To develop material on foundational literacy and numeracy through critical life skills.

**(vii) Brief report:** The Institute organized two programmes on implementation of New India Literacy Programme (NILP) through online mode. The first programme on the implementation of NILP was organised on May 25, 2022 and the second programme was on the Development of Resource Material for NILP on June 20, 2022. The programme targeted the SCERT and DIET faculties of states/UTs of Northern region. The programme focused on the material development on foundational literacy and numeracy through critical life skills. It highlighted the major conceptual points such as the development of primers, application of DIKSHA portal, development of video programmes/online modules, development of training modules for volunteer Teachers, development of info graphics / ICT / E- content and convergence and collaboration with local bodies. The programme was organized in association with CNCL, Department of Elementary Education, NCERT. Prof. Usha Sharma, DEE, NCERT & Dr. Anand Arya, RIE-NCERT were the coordinators of the programme.

**13. Title:** Manodarpan and Sahyog: Programmes on Mental Well-being of Ministry of Education SAHYOG

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

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

**(iii) Focus Areas:** Multidisciplinary Education and counselling.

**(iv) Target Group:** Students, Teachers, Teacher Educators, and Researchers

**(v) Stage:** All Stages

**(vi) Objectives:** To facilitate the mental well-being for the educational stakeholders.

**(vii) Brief report:** For facilitating the mental well-being for the educational stakeholders, the Institute conducted a five-day Sahyog programme after every four weeks' intervals, telecast by CIET, NCERT during 05:00 p.m. to 05:30 p.m. on PM e-Vidya, Official YouTube channel of NCERT and on Swayam Prabha TV channels. In this programme, the faculty members and experts delivered thematic sessions. During this programme, various sessions were organized focusing on the mental health issues of the adolescent group, such as, examination stress, drug abuse and depression were organized. Dr. Rajiv Ranjan, Assistant Professor was the coordinator of the programme.

## Year (2021-22)

### **1. Title: Educational Trend (A Journal of RIE, NCERT, Ajmer)**

- i) Name of Project Coordinator:** Prof. Rajesh Mishra
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Educational Research
- iv) Target Group:** Students, Teachers, Teacher Educators, Research Scholars, Educational Administrators and other Academicians.
- v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education
- vi) Objectives:**
  - a.** To facilitate sharing, documentation, and dissemination of the research work.
  - b.** To motivate the faculty members to undertake research, create research culture and publish research work.
  - c.** To encourage States/UTs departments of the region to participate, share and publish research work.
- vii) Brief report:** In continuation of the progress of the Journal Educational Trend (A journal of RIE, NCERT, Ajmer), the documentation from Licensing & Legal Cell, Jaipur was completed and forwarded to Registrar of Newspaper for India, New Delhi. Later on, a discrepancy letter was received from RNI in which 4 objections were raised, the documents according to the discrepancy was revised and sent back to RNI, New Delhi. A workshop was conducted in which 135 papers were thoroughly reviewed out of which 65 papers were finalized for the next issue of the journal.

### **2. Title: Expression Series on Eminent Personalities**

- i) Name of Project Coordinator:** Dr. Indu Sharma
- ii) States/UTs:** DMS Ajmer (Rajasthan)
- iii) Focus Areas:** Students, Student Teachers, Teachers, and Teacher Educators.
- iv) Target Group:** Students of DM School, Ajmer
- v) Stage:** School Level
- vi) Objectives:**
  - a.** To promote preserving cultural heritage.
  - b.** To promote literary activities among students,
  - c.** To enhance research skills of students,

d. To provide common platform for sharing of ideas.

vii) **Brief report:** For session 21-22 only two lectures were held in virtual mode due to pandemic situation. One lecture was organised on Teachers' day in which Prof. A.K. Mishra and delivered a lecture. Other lecture was organised on the occasion of Vivekanand Jayanti on 12 January, 2022 was delivered by Dr. Swatantra Sharma.

### 3. Title: Extension Lectures of Eminent Educationists

- i) **Name of Project Coordinator:** Head DDE, RIE, Ajmer
- ii) **States/UTs:** National Northern Region
- iii) **Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators, Students
- iv) **Target Group:** Students and Faculty of RIE and DMS, Ajmer
- v) **Stage:** All Stages of School Education
- vi) **Objectives:**
  - a. To provide a Forum to students and faculty for academic interaction with eminent educationists in the highlighting the implications of NEP-2020
- vii) **Brief report:** The institute has organized several extension lectures on various occasions through virtual mode in the year 2021-22. The details of all the lectures are given below.

S.N.	Name of the speaker	Affiliation	Subject of the lecture	Occasion
1.	Prof. Saroj Yadav	Dean (Academic), & (Retd.) NCERT	National Education Policy-2020: Roles and Responsibility of NCERT	01.09.2021 Foundation day of NCERT
2.	Dr. Dinesh Gupta	Faculty (Retd.) Samrat Prithviraj Chauhan Government College, Ajmer	Gandhian Ideology- Education for Humanity	02.10.2021 Gandhi Jayanti: The International Day of Non-Violence



3.	Prof. H.C.Jain	RIE, NCERT (Retd.) Ajmer	Roles and Responsibility of Teacher Education Institutions in the light of NEP-2020	30.10.2021 Foundation day of the Institute
4.	Sh. Satnam Singh	Additional SP ACB, Ajmer	'Ideologies of Sardar Vallabhbhai Patel: A Road Map to National Unity'	31.10.2021 National Unity Day
5.	Ms. Irina Garg, IRS	Chief Commissioner of the Income Tax, Aayakar Bhavan, Udaipur	Adult Education in the light of NEP-2020	11.11.2021 National Education Day
6.	Dr. S.D. Mishra	Faculty (History) College Education Govt. of Rajasthan	Constitution of India	26.11.2021 National Constitution Day
7.	Dr. Alok Srivastava	Academic coordinator and CE Haridev Joshi University of Journalism and Mass Communication, Jaipur	Role of Teachers in Independence of India	19.01.2022 Azadi ka Amrit Mahotsav
8.	Dr. S.V. Sharma	Prof. Physics, Principal RIE Ajmer	'Work and Life of Sir C.V. Raman	28.02.2022

#### **4. Title: Workshop for Heads and coordinating teachers of Co-operating schools for Internship**

- i) Name of Project Coordinator:** Prof. Rajesh Mishra
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators
- iv) Target Group:** Cooperating school Heads/Principals and teachers
- v) Stage:** Upper Primary and Secondary

**vi) Objectives:**

- a. To provide them a forum to share their past experiences and expectations from the trainees and the Institute.
- b. writing of Reflective journal, observation of lessons of teachers and peer trainees' participation in various school activities etc.

**vii) Brief report:** A workshop for Heads and Coordinating Teachers of Co-Operating Schools for Internship 2021-22 (Learning to function as Teacher) B.Ed. (II Year), B.A. B.Ed. and B.Sc. B.Ed. (IV Year) Session 2021-22 was organised through virtual mode on 29.11.2021. Internship was conducted in CBSE and State board affiliated schools.

**5. Title: Execution and Maintenance of Mathematics Lab at RIE, Ajmer**

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

**ii) States/UTs:** National

**iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators

**iv) Target Group:** Educationists, teachers (pre-service and In-service) and researchers working in the field of education

**v) Stage:** All stages

**vi) Objectives:**

- a. To remove the weaknesses of present-day mathematics education with the mathematics laboratory.
- b. To develop the much-needed confidence in students.

**vii) Brief report:** Mathematics Lab is under renovation with CPWD. Civil & Electrical work is in progress. In the meantime, write-ups based on LOs were developed on following:

- Verify Euler's relation through the pattern.
- Solve the problem of money in daily life by using mathematical operations.
- Identifies various (3-D) objects like sphere, cube, cuboid, cylinder, cone from the surroundings.
- Identifies various (3-D) objects from the surroundings.
- Describes edges, vertices and faces of 3-D objects.
- Finds out the perimeter and area of rectangular objects in the surroundings.

- Solves problems on addition of like fractions.
- Solves problems in daily life situations involving the addition of fractions.
- Solves problems on subtraction of like fractions.
- Solves problems in daily life situations involving subtraction of like fractions.
- Solves problems on the addition of mixed fractions.
- Explains congruency of triangles based on the information given about them like SSS.
- Explains congruency of triangles based on the information given about them like SAS.

## **6. Title: National Conference on Indian Languages, Arts and Culture**

- i) Name of Project Coordinator:** Dr. Saryug Yadav
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Language, art and culture.
- iv) Target Group:** Students, Research Scholars, Teachers, Teacher Educators and Curricular developers **Stage:** School Education up to Secondary stage
- v) Objectives:**
  - a.** To provide a platform to the language teachers, teacher educators and linguistic experts to share their views, researches, innovative practices with a special reference to multilingualism and the potentials of Indian languages envisaged in NEP 2020.
  - b.** To create an interest and awareness amongst teachers and teacher educators about advantages of Indian multilingualism and ways and means for promoting arts and culture through Indian languages.
- vi) Brief report:** A 3-Day National Conference on Indian Languages, Arts and Culture was organised by RIE, Ajmer through the virtual mode from 8-10 December 2021 in which 79 participants presented their research papers and 21 eminent educationists and experts of language, arts and culture delivered their thought-provoking and stimulating keynote, plenary, lead and lightning talks on different issues and concerns of the conference.

**Based on the presentations/deliberations during the national conference following recommendations were emerged out:**

- The voice of every child is important, and hence, the mother tongue matters in education. There is a need to critically analyse/inquire about the existing mother tongue education

programmes and to develop a mechanism to ensure a proper bridge from the mother tongue to the language of wider communication.

- The diversity of Indian culture, languages, folk literature and arts need to be adequately explored as an asset, and sustaining this diversity is our responsibility through the process of learning.
- Sign language is also a proper language. We need to build an education system to take care of all the minority/regional/ tribal languages which have been marginalized for years. The multicultural context of sign language regarding *divyang* children is important for quality learning.
- It is essential to develop a feasible mechanism to weigh and consider points of excellence in the local culture of a group to connect ultimately with the larger human culture through certain appropriate references to NCERT books.
- Language needs to be conceptualized in terms of multilingualism. Pedagogical and curriculum enterprises should focus on the language of learners and be used as a resource by encouraging them to participate in classroom activities.
- The Foundational and Preparatory language education should be declared as multilingual education. A national-level multilingual education policy needs to be developed for promoting Indian languages and making learning in school effective and harmonious.
- It is high time that the Government of India considers recognizing more languages and include them in the VIII Schedule of the Indian Constitution. This would save the languages from endangerment and extinction.
- It is recommended that language textbooks for school education bring in more texts and narratives from Indian literature in language as well as social science curriculum.
- The School education curriculum at the secondary stage may introduce a course on Indian languages as one of the options. The course may be titled 'Language Studies'.
- Teach English as the second language but preserve our regional languages. English can be our language of learning but can't be the language of our culture. We can't allow our languages to be obscured by English. We must preserve them without compromising on the future of our culture. Our curriculum must echo this point.
- Indianization of Indian Education is the need of the hour. We must encourage local language, dialects, culture and traditions through education. The curriculum must include basic arts, crafts, humanities, games, sports, language, literature, culture and values. The

NEP 2020 provides us with an opportunity to decolonize the British colonial Education System.

- Language skills can be properly improved with the use of simple musical compositions and rhymes in the early years of childhood. Through music, important concepts can also be taught in a simple, interesting and entertaining way.
- Art-integrated learning is the need of the hour. Incorporating components of art into various academic subjects can go a long way in enriching knowledge, widening the horizons of exploring and learning, providing an environment conducive to learning which will play a significant role in the development of children's personalities.
- Diversity is an opportunity for us to build a stronger, happier and healthier India provided we succeed in building an ecosystem to ensure that no any language, art and culture is left behind in wholesome development. It is high time to facilitate all access to opportunities, facilities and responsibilities in an enabling atmosphere where there is no discrimination in any respect.
- The North Eastern Region of our country has not yet been appropriately explored so far as cultures and languages are concerned. The North-Eastern states/UTs can contribute significantly to enriching our national culture if they are adequately explored and included in our school curriculum.
- As NEP 2020 aspires to revive and retain the Indian Knowledge Systems, without using the Indian ways, tools and techniques, we cannot think of reviving the Indian Knowledge Systems. Therefore, it is suggested that the upcoming NCF should think of reviving the Indigenous ways and approaches of learning and teaching to sustain the aims and objectives of NEP 2020.
- Folk literature is very useful in language teaching. Since all folk literature in essence is oral and subject to its survival in the human mind, it is full of devices to support or strengthen memory. The devices include repetitions, formulaic expressions and realistic details to fiction. It not only establishes an instant bond with the learner but also inculcates cultural values among them. It is possible to teach all the four skills of LSRW through the use of folktales.

## **7. Title: Organizing National Webinar on National Education Policy 2020: Exploring Transformational Implementation in School Education**

- i) Name of Project Coordinator/Organizing Secretary:** Dr. Anand Arya
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Educational Research
- iv) Target Group:** Students, Teachers, Teacher Educators, Research Scholars, Educational Administrators and other Academicians.
- v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education
- vi) Objectives:**
  - a.** To motivate the faculty members to undertake research, create research culture and publish research work.
- vii) Brief report:** The Ministry of Education (MoE) has released the National Education Policy (NEP) 2020, laying down a path for the large-scale transformational reforms in both school and higher education sectors. Keeping all documental strategies for its effective implementation, a national level webinar was organized on April 26 & 27, 2021 in collaboration with the States/UTs of Northern Region. The webinar aimed to provide a platform for academic interaction with the eminent educationists in exploring transformational techniques and its implementation in school education as highlighted in the NEP 2020. More than 1000 participants including teacher educators, academician, teachers of different subjects, research scholars, students etc. related to the field of education participated in the webinar. Experiential learning, Inquiry based learning, developing the critical and creative thinking about how to learn, integration of ICT in teaching-learning, multilingualism etc. were some of the major practices that most of the participants agreed to incorporate in their teaching pedagogy. They emphasized on implementing NEP at the grass-root level, prioritizing literacy and numeracy, thus, ensuring a qualitative change at pre-primary and primary level. It was unanimously accepted that major reforms in learning through art integrated education should be a part of the NEP's implementation. During the national webinar, 13 sessions on major themes of NEP-2020; Exploring transformational implementation: An overview of NEP 2020, Learning 'How to learn', Exploring transformations through 'Multilingualism and Power of Language', Research, Indian Languages, Arts and Culture, Experiential Learning and Holistic Development, Transformational Reforms in Assessments and Examinations in School Education, Online and Digital Education-

Ensuring Equitable use of Technology, Implementation Strategies for Affordable and Quality School Education, Exploring Community Participation for School Improvement, Governance through School Complexes/Clusters, Equitable and Inclusive Education and Foundations of Learning: Literacy and Numeracy were organized. The major takeaways for the participants were to learn the idea of bringing NEP 2020 in the current education system with informative sessions, expert's knowledge and discussions, a roadmap showing the level of implementation and execution. Dr. Anand Arya, Associate Professor of Chemistry was the organizing secretary of the national webinar. The recordings of national webinar may be watched at official YouTube channel of the institute (link <https://www.youtube.com/watch?v=a6CvLNryCcU&t=2s>).

**8. Title: National Conference on Emerging Trends in Physics & Physics Education (NCETPPE-2022) organized**

- i) Name of Project Coordinator/Organizing Secretary:** Dr. Ved Prakash Arya and Dr. Rana Pratap **States/UTs:** National
- ii) Focus Areas:** Physics & Physics Education
- iii) Target Group:** Teachers, researchers, students and teacher educators associated with Physics & Physics Education
- iv) Stage:** All Stages
- v) Objectives:**
  - a.** To motivate the faculty members to undertake research, create research culture and publish research work in the field of Physics.
- vi) Brief report:** National Conference on Emerging Trends in Physics & Physics Education was held at Regional Institute of Education on February 27, 2022 and February 28, 2022 in virtual mode. This conference provided a platform for teachers, researchers, students and teacher educators associated with Physics & Physics Education to share their researches, experiences, innovative practices and ideas and its impact in improving the quality of Physics The major highlights of the event were the keynote addresses by eminent speakers namely Prof. Ajoy Ghatak, Dr. Krishan Lal, Prof. C.K. Ghosh, Dr. R.G. Sharma, Prof. A.K. Tyagi, Acharya Agnivrat Naishthik, Prof. S.V. Sharma, Prof. H.C. Jain, and Prof. Shashi Prabha. The two-day Conference focused on varied themes such as - Experiments in physics-past practices and emerging

trends, Sustaining learners interest in physics, Resources for physics education, ICT for quality physics & physics education, Learning outcomes with special reference to physics, Innovative pedagogies for effective teaching learning of physics, Evaluation in physics – past & present practices and future perspectives, Physics and skill development, Alternative frameworks in physics, Physics, technology and society perspectives, Advanced and smart materials, Interface of physics with other branches of science, Technology use and integration in physics and physics education, Online and digital education: ensuring equitable use of technology in teaching-learning of physics and physics education, Experiential learning in physics education, Sports integration in physics and physics education, Art integrated approach for teaching learning of physics and physics education etc. Nine keynote addresses were held on diverse topics of Physics and Physics Education by eminent speakers Research papers were received from every nook and corner of the India. Review committee recommended 79 research papers for presentation in the conference, out of which 65 participants presented their work during 10 different technical sessions. The event concluded with the valedictory remarks of Prof. S.V. Sharma, Principal, RIE, Ajmer. Dr. Ved Prakash Arya and Dr. Rana Pratap were the Organizing and Co-Organizing Secretary of the Conference. The recordings of national conference may be watched at official YouTube channel of the institute (link <https://www.youtube.com/watch?v=VJiTqNCcVa4>)

### **Year (2020-21)**

#### **1. Title: Educational Trend (A Journal of RIE, NCERT, Ajmer)**

- i) Name of Project Coordinator:** Prof. S.V.Sharma/Prof. P.K.Chaurasia/Prof. Rajesh Mishra
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Educational Research
- iv) Target Group:** Students, Teachers, Teacher Educators, Research Scholars, Educational Administrators and other Academicians.
- v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education
- vi) Objectives:**



- a. To facilitate sharing, documentation, and dissemination of the research work.
- b. To motivate the faculty members to undertake research, create research culture and publish research work.
- c. To encourage States/UTs departments of the region to participate, share and publish research work.

**vii) Brief report:** Two Volumes of special issue of Journal comprising of paper of conference on learning outcomes have been edited and finalized for publication. Another two volume of papers of conference on Mathematics education is under preparation.

## **2. Title: Expression Series on Eminent Personalities**

- i) **Name of Project Coordinator:** Dr. Indu Sharma
- ii) **States/UTs:** DMS Ajmer (Rajasthan)
- iii) **Focus Areas:** Students, Student Teachers, Teachers, and Teacher Educators.
- iv) **Target Group:** Students of DM School, Ajmer
- v) **Stage:** School Level
- vi) **Objectives:**
  - a. To promote preserving cultural heritage.
  - b. To promote literary activities among students,
  - c. To create awareness among students regarding Contribution of freedom fighters to bring Independence to Nation.
  - d. To provide common platform for sharing of ideas.
- vii) **Brief report:** Under the PAC Programme 15.14 titled-lecture series on eminent personalities in which Generally Birth Anniversaries are celebrated through Lectures and different activities are conducted for the students to make them apprise regarding the contribution of these personalities for the building up the Nation. Due to covid-19 this time all activities were conducted through virtual mode inviting different scholars for lectures and different activities were conducted like painting, poster making, slogans, poetry etc.

As first activity of the programme, National Teachers Day was celebrated. Then, Gandhi Jayanti was celebrated. Prof. Nawal Kishroe Upadhaya was invited to deliver a talk on Gandhian Thoughts on this occasion. National Education Day was celebrated on 11, November 2020. Dr.C.B. Sharma retired IPS delivered a talk on Technology in the light of NEP2020. Dr. Alok Shrivastava was the speaker on celebration of Constitution Day on 26<sup>th</sup> November 2020.

International Mother Tongue Day was celebrated on 21<sup>st</sup> February 2021. The International Women's Day was celebrated by the institute on March 08, 2021.

### **3. Title: Extension Lectures of Eminent Educationists**

- i) Name of Project Coordinator:** Head DDE, RIE, Ajmer
- ii) States/UTs:** National/ Northern Region
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators, Students
- iv) Target Group:** Students and Faculty of RIE and DMS, Ajmer
- v) Stage:** All Stages of School Education
- vi) Objectives:**
  - a.** To provide a Forum to students and faculty for academic interaction with eminent educationists in the highlighting the implications of NEP-2020
  - b.** To enlighten the students and Faculty about New Education Policy 2020 and its importance in the field of Education.
  - c.** To enrich the knowledge and understanding of students on various issues of educational importance with reference to life and contributions of eminent educationists in the field of education.
- vii) Brief report:** In the Programme three extension lectures were organized through Google meet. The first lecture was organized on National Mathematics Day on December 22, 2020. On the celebration of National Mathematics Day Prof. G. Ravindra former Director of NCERT was invited to deliver a talk on "Mathematics for All". The Second lecture was delivered on December 23, 2020 by Dr. S. C. Panigrahi, former head coordinator UGC-CAS of M. S. University Baroda on "Initiatives for Implementing National Education Policy 2020 with reference to Higher Education". Third lecture in the series was delivered by Sh. Umesh Kumar Chaurasia on celebration of birth anniversary of Swami Vivekananda on 12<sup>th</sup> January, 2021. The National Science Day was celebrated through virtual mode on 28.02.2021. In the event an Extension lecture was delivered by Prof. Ashutosh Tiwari on Nanotechnology: Past, Present and Future.

#### **4. Title: Workshop for Heads and coordinating teachers of Co-operating schools for Internship**

- i) Name of Project Coordinator:** Prof. Rajesh Mishra
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators
- iv) Target Group:** Cooperating school Heads/Principals and teachers
- v) Stage:** Upper Primary and Secondary
- vi) Objectives:**
  - a.** To provide them a forum to share their past experiences and expectations from the trainees and the Institute.
  - b.** To make them aware about the objectives, the process and importance of internship.
  - c.** To Orient the cooperating school teachers and Heads about their roles and responsibilities during internship
  - d.** To facilitate their interaction with the trainees who are being placed in their schools.
- vii) Brief report:** The workshop was held on 5<sup>th</sup> February 2021. In the said workshop Principals of cooperating schools were invited to join through virtual mode to interact with students for internship in teaching programme.

#### **5. Title: Execution and Maintenance of Mathematics Lab at RIE, Ajmer**

- i) Name of Project Coordinator:** Prof. P. K. Chaurasia
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators
- iv) Target Group:** Educationists, teachers (pre-service and In-service) and researchers working in the field of education
- v) Stage:** All stages
- vi) Objectives:**
  - a.** To remove the weaknesses of present-day mathematics education with the mathematics laboratory.

- b. To develop the much-needed confidence in students.
- vii) **Brief report:** The Mathematical truths are accepted on the basis of their proof. Therefore, we are developing our Mathematics laboratory as much as possible. The mathematics laboratory provides an opportunity for the students to discover mathematics via enormous experiments. It is a place to enjoy Mathematics through informal exploration. It is a place of carrying out various interesting experiments and to find several pioneering concepts to explore knowledge. The Mathematics laboratory should not be used to assess student's knowledge of mathematics often it takes students' knowledge beyond curriculum. A Mathematics laboratory will help teachers to reorient their tactics and make Mathematics an activity-oriented program in schools. A Mathematics laboratory can foster Mathematical awareness, skill-building, positive attitudes and learning by undertaking experiences in diverse branches of Mathematics such as Algebra, Geometry, Mensuration, and Data Handling, etc.

## 6. Title: Institute Environmental Theme Park

- i) **Name of Project Coordinator:** Sh. O. P. Meena
- ii) **States/UTs:** Regional
- iii) **Focus Areas:** Multidisciplinary Education, and current issues of environment.
- iv) **Target Group:** The institute and DMS, Ajmer students and faculty
- v) **Stage:** All stages
- vi) **Objectives:** To sensitize and to make students aware about the various environmental issues.
- vii) **Brief report:** The institute has developed and projected an environmental Theme Park for strengthening the biodiversity and environment-based school education programmes. For this, the institute's Environmental Theme Park maintains the various ecosystems, medicinal plant conservatory, a center for non-conventional source of energy, a green house, conservation of water and soil and organic farming. To sensitize and to make students aware about the various environmental issues, every year institute organized 'Prakriti Mela'. This year due to COVID-19 situation, 'Prakriti Mela' was organized in virtual mode. For this, a lecture series of topics concerned with Environmental Education were organized for the students of the Institute and D M School. The virtual interactive sessions on 'Climate Change: A long term Perspective' by Prof. Manoj K. Pandit, University of Rajasthan, Jaipur on March

10, 2021, 'Importance of Biodiversity for the Survival of Mankind' by Prof. K.K. Sharma, MDS University Ajmer on March 12, 2021, 'Sustainable agriculture: future perspectives and challenges' by Dr. Bindu Sharma from Department of Botany University of Rajasthan on March 18, 2021, 'Role of Traditional Environmental Conservation in live hood and conservation' by Prof. Anil Kumar Changani, Head Department of Environmental Science, MGS University Bikaner on March 23, 2021 and 'Conservation of Wildlife from a common man prospective' by Dr. Sanjeev Kumar, Joint Director, Zoological Survey on 26th March 2021 were organized. The institute and DMS, Ajmer students and faculty interacted on the issues related to environmental education, focusing on current issues of environment. The institute theme park is benefitting the students of northern region in demonstrating the structure and functions of various ecosystems at a single place during their educational visit round the year. Sh. O. P. Meena is the coordinator of environmental theme park project.

#### **7. Title: Organization of Capacity building programme for DIET and SCERT Faculties on Research Methodology and Data Analysis.**

- i) Name of Project Coordinator:** Prof. K.B. Rath, Dr. Meenakshi Meena and Dr. Rajiv Ranjan
- ii) States/UTs:** Northern Region
- iii) Focus Areas:** Multidisciplinary Educational Research.
- iv) Target Group:** DIET and SCERT faculties
- v) Stage:** All stages
- vi) Objectives:**
  - a.** To improve the educational research methodology.
  - b.** To identify the problems in formulation of hypothesis, writing research objectives, etc.
- vii) Brief report:** A 5-day capacity building programme for DIET and SCERT faculties of the northern state on Research Methodology and Data Analysis was organized in virtual mode during March 22-26, 2021. During the programme various activity-based sessions such as concept, meaning and types of educational research, type of information or data, purpose and steps involved, writing research title for various types of research; identification of problem formulation of hypothesis, writing research

objectives, etc. were delivered online. The theme-based activity sessions were also organized on the process of research, creation of data sheet, analysis of data and writing interpretation of the research outcome. Prof. Dayanand Sansanwal, former Head and Dean, Department of Education, Devi Ahliya University, Indore and faculty of institute Prof. K. B. Rath, Dr. Meenakshi Meena, Sri Muzzamil Hasan and Dr. Rajeev Ranjan were the resource persons for the programme. The 42 participants from the states of northern region viz. Uttarakhand (10), Haryana (13), Punjab (13) and Delhi (06) states actively participated in the virtual programme. Prof. K.B. Rath, Dr. Meenakshi Meena and Dr. Rajiv Ranjan, were the coordinators of the online programme.

### **Year (2019-20)**

#### **1. Title: Educational Trend (A Journal of RIE, NCERT, Ajmer)**

- i) Name of Project Coordinator:** Prof. S.V. Sharma
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Educational Research
- iv) Target Group:** Students, Teachers, Teacher Educators, Research Scholars, Educational Administrators and other Academicians.
- v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education
- vi) Objectives:**
  - a.** To facilitate sharing, documentation, and dissemination of the research work.
  - b.** To motivate the faculty members to undertake research, create research culture and publish research work.
  - c.** To encourage States/UTs departments of the region to participate, share and publish research work.
- vii) Brief report:** Title of the Journal has been approved by the RNI. The institute has published his journal 'Educational Trend' (A Journal of RIE Ajmer) for dissemination, facilitate, sharing and documenting the researches in education. The journal has provided a platform for the researchers and States/UTs departments of the region to

participate, share and publish research work for achieving the quality. The 2 volumes of journal are ready for publication. Prof S. V. Sharma is the Chief Editor of the Journal.

## **2. Title: Expression Series on Eminent Personalities**

- i) Name of Project Coordinator:** Dr. Indu Sharma
- ii) States/UTs:** DMS Ajmer (Rajasthan)
- iii) Focus Areas:** Students, Student Teachers, Teachers, and Teacher Educators.
- iv) Target Group:** Students of DM School, Ajmer
- v) Stage:** School Level
- vi) Objectives:**
  - a)** To promote preserving cultural heritage.
  - b)** To promote literary activities among students,
  - c)** To enhance research skills of students,
  - d)** To bring out the creative expression of students,
  - e)** To promote value of national integrity,
  - f)** To create awareness among students about issues related to national development,
  - g)** To encourage students to reflect upon the issues related to their lives,
  - h)** To create awareness among students regarding Contribution of freedom fighters to bring Independence to Nation.
  - i)** To provide common platform for sharing of ideas.
- (i) Brief report:** Education Day could not be celebrated due to holidays but the Constitution Day was celebrated on 26-11 and Mathematics Day was celebrated on 22 Dec. 2019.

## **3. Title: Extension Lectures of Eminent Educationists**

- i) Name of Project Coordinator:** Dr. Rajiv Ranjan
- ii) States/UTs:** National/ Northern Region
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators, Students
- iv) Target Group:** Students and Faculty of RIE and DMS, Ajmer
- v) Stage:** All Stages of School Education

- vi) Objectives:**
  - a. To provide a Forum to students and faculty for academic interaction with eminent educationists in the highlighting the implications of NEP-2020
  - b. To enlighten the students and Faculty about New Education Policy 2020 and its importance in the field of Education.
  - c. To enrich the knowledge and understanding of students on various issues of educational importance with reference to life and contributions of eminent educationists in the field of education.
- vii) Brief report:** The department of Extension Education (DEE) of institute organized lectures of eminent educationists under the extension lecture series. The lectures are organized with an objective to orient the faculty and students of the Institute of various aspects of educational importance. During the session 2019-20, the department organized 06 lectures on various occasions. Prof. Ayushman Goswami, Head, DEE coordinated the programme. The lectures organized are: (1) Quality concerns, issues and activities of IQAC Prof. Anil Kumar, NITTE, Bhopal, on 02 July, 2019. (2) Gandhian Philosophy and Values by Prof. Daya Pant on September 01, 2019 on the occasion of NCERT Foundation Day. (3) Culture Significance of Indian Traditional Festivals by Dr. K.C. Sharma on October 30, 2019 on Foundation day of institute. (4) National Integration and Sardar Patel by Prof. K. C. Vashishtha on October 31, 2019 on National Integration Day. (5) Augmented Reality by Prof. Sudhakar C. Agrekar on November 11, 2019 on National Educational Day. (6) Cyber Security by Dr. C. B. Sharma on February 28, 2020 on National Science Day

#### **4. Title: Workshop for Heads and coordinating teachers of Co-operating schools for Internship 2019-20**

- i) Name of Project Coordinator:** Prof. V.P. Singh/ Dr. R.B. Pareek
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators
- iv) Target Group:** Cooperating school Heads/Principals and teachers
- v) Stage:** Upper Primary and Secondary
- vi) Objectives:**



- a. To provide them a forum to share their past experiences and expectations from the trainees and the Institute.
  - b. To make them aware about the objectives, the process and importance of internship.
  - c. To orient the Heads and teachers of co-operating schools about Observation tool, and various assignments to be completed by Interns during Internship including; writing of Reflective journal, observation of lessons of teachers and peer trainees' participation in various school activities etc.
  - d. To Orient the cooperating school teachers and Heads about their roles and responsibilities during internship
  - e. To facilitate their interaction with the trainees who are being placed in their schools.
- vii) **Brief report:** Internship in teaching programme is completed. Exhibition of teaching aid was organized during the month of November 2019 for all interns in the Institute.

#### **5. Title: National Conference on teaching learning in Mathematics**

- i) **Name of Project Coordinator:** Prof. P. K. Chaurasia
- ii) **States/UTs:** National
- iii) **Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators
- iv) **Target Group:** Educationists, teachers and researchers working in the field of mathematics and education.
- v) **Stage:** All stages
- vi) **Objectives:**
  - a. To trace the history of mathematics education and contribution of India in the field of mathematics
  - b. To discuss the concerns and challenges in mathematics teaching and learning at school level
  - c. To share innovative practices in teaching and learning mathematics at school stage
  - d. To highlight a variety of resources in practicing school mathematics
  - e. To strengthen the role of ICT in pedagogical processes and assessment practices in mathematics education.
- vii) **Brief report:** The 8th National Conference on Teaching -Learning in Mathematics was organized by the Institute from December 19-21, 2019. The national conference was

aimed to provide a common platform to all stakeholders working in the field of mathematics education, to share their experiences, researches, innovative practices and their impact in improving the quality of school education in general and mathematics education in particular. The broad theme of the conference ‘Mathematics Education’, was intended to focus the innovative pedagogical practices experimented and found useful in teaching of mathematics at different levels and to connect various aspects of the mathematics education such as inclusive mathematics classroom, school mathematics curriculum, assessment, use of ICT and other resources and linking mathematics with everyday life in interdisciplinary approach. To achieve this, in the conference the Mathematicians, Educationists, Teacher Educators, Research Scholars, Academicians and Teachers joined and shared their thoughts, experiences, researches and also observe the National Mathematics Day marking the birth anniversary of legendary Indian mathematician Srinivasa Ramanujan. During the conference the screened/ reviewed 75 research papers were presented through oral and poster session. The plenary and keynote lectures were also delivered by Professor G. Ravindra, Professor Anup Rajput, Professor R C Sharma, Professor C K Ghosh, Dr. Anil Jain and Professor V S Prasad. The conference was organized under the guidance of Prof. Hrushikesk Senapaty, Director NCERT and Prof S. V. Sharma, Principal, RIE, Ajmer. Prof. Praveen Kumar Chaurasia coordinated the conference.

## **6. Title: National Conference on Language Pedagogy**

- i) Name of Project Coordinator:** Prof. Rajesh Mishra
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators
- iv) Target Group:** Teachers, Teachers Educators and Researchers in the Language
- v) Stage:** Up to Senior Secondary level
- vi) Objectives:**
  - a.** To provide a platform to the language teachers, teachers educators and linguistic experts to share their views, researches, innovative practices and emerging trends in Language Education.
  - b.** To develop awareness amongst teachers and teacher educators regarding problems of language teaching-issues and concerns.

**vii) Brief report:** Conference was organized in the institute by department of education in Social Sciences & Humanities (DESSH) from 11-13 December, 2019. The idea behind this national conference was to provide a common platform to all stakeholders working in the field of language education for sharing their experiences, researches, innovative practices and their impacts on improving the quality of school education in general and language pedagogy in particular. The conference was a unique endeavor in a sense that it was designed as an inclusive platform for three languages i.e., Hindi, English and Urdu in order to strengthen the spirit of multilingualism. During the conference, 70 papers on different sub-themes of the conference were presented in six technical sessions by language teachers, researchers, scholars, faculty members of DIETs, CTEs, SCERTs, SIERTs, SIEs, IASEs, Universities, NCERT, other teacher training institutions, colleges and NGOs working in the field of language education. Besides the oral presentation, one keynote address and four plenary lectures were also delivered by the invited speakers on the different themes of the conference. The conference provided a platform for discussion and deliberations to the participants for substantial ideas leading to the enrichment of knowledge related to various issues of language pedagogy. The ideas generated during the conference will help the teachers, teacher educators, researchers, scholars, language policy planners, people involved and concerned with the preparation of textbooks and teaching learning materials in language education. The conference was inaugurated by the chief guest Prof. R.P. Singh, Vice Chancellor, MDS University, Ajmer and Guest of Honour Padma Shree Dr. C. P. Dewal, Key Note Speaker Prof. Rajneesh Arora, Director, EFL University, Lucknow, by lighting of the lamp along with other invited resource persons and dignitaries of the institute present on the occasion. Prof. Nand Kishore Pandey, Director, Kendriya Hindi Sansthan, Agra was the chief guest and speaker in the valedictory session of the conference. The conference was organized under the able guidance of Prof. Hrushikesh Senapaty, Director NCERT and Prof S. V. Sharma, Principal, RIE, Ajmer. Prof. Rajesh Mishra was the coordinator of the conference.

## **Year (2018-19)**

### **1. Title: Bi-Annual Journal on Educational Trends**

**(i) Name of Project Coordinator:** Prof. S.V. Sharma

**(ii) States/UTs:** National

**(iii) Focus Areas:** Multidisciplinary Educational Research

**(iv) Target Group:** Students, Teachers, Teacher Educators, Research Scholars, Educational Administrators and other Academicians.

**(v) Stage:** Foundational, Preparatory, Middle & Secondary Stages and All Stages of Multidisciplinary School Education

#### **(vi) Objectives:**

- a. To facilitate sharing, documentation, and dissemination of the research work.
- b. To motivate the faculty members to undertake research, create research culture and publish research work.
- c. To encourage States/UTs departments of the region to participate, share and publish research work.

**(vii) Brief report:** Bi-Annual Journal on Educational Trends has been revived with the objectives to facilitate, sharing, documentation and dissemination of the research work; to motivate the faculty members to undertake research work, create research culture and research work publish and; to encourage State/UTs departments of the region; to participate, share and publish research work. Accordingly, articles/research papers were invited and blind reviewed. Outcomes of the review workshop were communicated to the authors of the articles/research papers were consolidated in form of the Draft of two volumes (Volume 1 Number 1 June 2018 pp 1-180 and Volume 1 Number 2 December 2018 pp1-183) of Educational Trends (A Journal of RIE Ajmer). Editing workshop has been organized on 28 & 29 Jan. 2019. The necessary permission from the District Administration of Jaipur has been obtained in order to engage impaneled printer of NCERT for publication of the journal. The permission for title verification through District Administration Ajmer is forwarded to RNI and title (RIE Ajmer Journal of Educational Trends) of the journal is approved by RNI on May 10, 2019.

## **2. Title: Expression Series on Eminent Personalities**

**(i) Name of Project Coordinator:** Dr. Indu Sharma

**(ii) States/UTs:** DMS Ajmer (Rajasthan)

**(iii) Focus Areas:** Students, Student Teachers, Teachers, and Teacher Educators.

**(iv) Target Group:** Students of DM School, Ajmer

**(v) Stage:** School Level

**(vi) Objectives:**

- a. To promote preserving cultural heritage.
- b. To promote literary activities among students,
- c. To enhance research skills of students,
- d. To bring out the creative expression of students,
- e. To promote value of national integrity,
- f. To create awareness among students about issues related to national development,
- g. To encourage students to reflect upon the issues related to their lives,
- h. To create awareness among students regarding Contribution of freedom fighters to bring Independence to Nation.
- i. To provide common platform for sharing of ideas.

**(vii) Brief report:** The Teachers day was celebrated on 5<sup>th</sup> September 2018. On the occasion of Gandhi Jayanti, on 2<sup>nd</sup> October 2018, some activities and the guest lecture were also organised. On 31<sup>st</sup> October, the Unity Day was celebrated in which different activities were conducted and the guest lecture was delivered by Sh. Hanuman Singh Ji Rathore. **On 26<sup>th</sup> November, 2018** the Constitution day was celebrated and the guest Prof. Manoj Awasthi Ji of Government College Ajmer delivered a **lecture on "Benefits of Constitution in Indian Democracy"** **22<sup>nd</sup> December 2018** the Mathematics day was celebrated and the **guest Prof. Parihar of GCA, History Department of GCA, delivered a lecture, on "Easy Solution of Theoram"**. Speech by students and activities like quiz were conducted. On 12<sup>th</sup> January, 2019 the Youth day was celebrated **and the guest Sh. Bhupendra Ubana, Principal Aadrah Vidhaya Niketan School" delivered the lecture on "Youth Day"**. Prizes for all the activities held on different occasions were distributed to the students on the same day by the chief guests. Thus, students' knowledge and understanding were enriched on different occasions by inviting eminent personalities.

### **3. Title: Extension Lectures of Eminent Educationists**

- (ii) Name of Project Coordinator:** Head DEE
- (iii) States/UTs:** National/ Northern Region
- (iv) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators, Students
- (v) Target Group:** Students and Faculty of RIE and DMS, Ajmer
- (vi) Stage:** All Stages of School Education
- (vii) Objectives:**
  - a.** To provide a Forum to students and faculty for academic interaction with eminent educationists in the highlighting the implications of NEP-2020
  - b.** To enlighten the students and Faculty about New Education Policy 2020 and its importance in the field of Education.
  - c.** To enrich the knowledge and understanding of students on various issues of educational importance with reference to life and contributions of eminent educationists in the field of education.

**(vii) Brief report:** During the year Extension Lectures were organized by inviting the eminent persons on various occasions. The eminent speakers invited so far, include Prof. N.K. Upadhyay on the occasion of Gandhi Jayanti; Prof. G. Ravindra former Director NCERT on foundation day of the Institute i.e. 30<sup>th</sup> Sep; Prof. Sambodh Goswami of University of Rajasthan of Jaipur on Ekta Diwas on 31<sup>st</sup> October; Prof. U.C. Vashisth on National Education Day; **Prof. D.N. Sansanwal, Retd.From Sagar University,M.P.** orientation of M.Ed. Students on various aspect of Educational research. Extension lecture is also planned for National Science Day and Prof. S.C. Agarkar, Professor, and Dean, VPM's Academy of International, Education and Research, Dr. Bedekar Vidya Mandir, Naupada, Thane, Maharashtra, India has been invited to deliver an Extension Lecture on the occasion.

**4. Title: Conference cum-Workshop for Heads and coordinating teachers of Co-operating schools for Internship 2018-19**

- i) Name of Project Coordinator:** Prof. V.P. Singh
- ii) States/UTs:** National
- iii) Focus Areas:** Multidisciplinary Education Researchers, Curriculum Developers, Teachers, and Teacher Educators
- iv) Target Group:** Cooperating school Heads/Principals and teachers
- v) Stage:** Upper Primary and Secondary
- vi) Objectives:**
  - a.** To provide them a forum to share their past experiences and expectations from the trainees and the Institute.
  - b.** To make them aware about the objectives, the process and importance of internship.
  - c.** To orient the Heads and teachers of co-operating schools about Observation tool, and various assignments to be completed by Interns during Internship including; writing of Reflective journal, observation of lessons of teachers and peer trainees' participation in various school activities etc.
  - d.** To Orient the cooperating school teachers and Heads about their roles and responsibilities during internship
  - e.** To facilitate their interaction with the trainees who are being placed in their schools.
- vii) Brief report:** The workshop of Heads of Schools/Principals and Teachers of Jawahar Navodaya Vidyalayas (cooperating schools for internship) was organized at RIE, Ajmer from 20<sup>th</sup> to 21<sup>st</sup> June 2018 to share the mutual expectations and role to develop the trainees through the programme titled "Learning to function as teacher (school internship) 2018-19". The 33 officials from Navodaya Vidyalaya Samiti attended and contributed in the said workshop. The internship of B.Sc. B.Ed. IV Yr, B.A.B.Ed. IV Yr. and B.Ed. II Yr trainees were organized in 32 Navodaya Vidyalayas of Lucknow, Jaipur and Chandigarh regions. The four weeks pre-internship of B.Sc.B.Ed. III Yr., B.A.B.Ed. III Yr and B.Ed. I Yr. has been completed from 3<sup>rd</sup> Jan. to 1<sup>st</sup>February 2019.

## **5. Title: National Seminar on Learning Outcomes**

**(i) Name of Project Coordinator:** Prof. V.P. Singh

**(ii) States/UTs:** National

**(iii) Focus Areas:** Educationists, teachers and researchers working in the field of Elementary Education

**(iv) Target Group:** Educationists, teachers and researchers working in the field of Elementary Education

**(v) Stage:** Researches in the entire Spectrum of Elementary Education and Elementary Teachers' Training.

**(vi) Objectives:**

- a.** To provide a forum to the educational researchers, elementary teachers and teacher educators to share their research work and innovative/ best practices of elementary education particularly ensuring Learning outcomes.
- b.** To make recommendation for future course of action for the promotion of Quality Elementary Education in the country.
- c.** To document the best practices and researches in the field of Elementary Education and to disseminate these with all stakeholders.

**(viii) Brief report:** The proposed seminar was planned with a view to share the best practices, field level experiences and researches in the field of Elementary Education Right to Education with special reference to Learning Outcomes. The major objective of the seminar has been to provide a forum to give an exposure to all the participants and help them in planning for future strategies for effective implementation of pedagogical strategies focusing on Learning Outcomes. Invitation letters were sent to the Secretaries of Education, Directors of SCERTs of different states and Principals of all RIEs. The seminar was organized from March 7<sup>th</sup> to 9<sup>th</sup>, 2019 in which 85 papers were presented in oral and poster sessions. On this occasion, a workshop for teachers and an exhibition of the material developed by different organizations and state educational functionaries were also organized.