



Annual Report

Centre of Research

01/07/2022 To 31/05/2023

About Centre of Research

Centre of Research is the backbone of IITE as it is committed to supporting young and aspiring minds to pursue research in the field of education and especially in teacher education. In order to promote and disseminate research in the field of Education and specifically focusing on Teacher Education there is Centre of Research (CoR) functional at the Indian Institute of Teacher Education, under section 6 (4) (I) of Act of IITE.

There are three departments under centre of research:

- I Testing and Evaluation
- II Education, Science, Languages and Social Science Research
- III Student Start-up and Innovation

Human Resources of Centre of Research

Director: Dr.Viral B. Jadav

Head, Testing and Evaluation: Dr. Jyoti Raval

Head, Education, Science, Languages and Social Science Research: Dr.Dipika Patel

Head, SSIP: Dr. Mehul Dave

Statistical Analyst: Mr. Kaustubh Upadhyay

Objectives of CoR:

- Developing and providing standardized research tools.
- Organizing competitions on 'Preparation of Research Report'.
- Organizing seminars, conferences, and workshops based on research activities.
- Promoting quality research by inviting Research Reports (Theses, Dissertations, Research Papers.)
- To promote action researches in HEIs.
- Compiling the abstracts of the educational researches.
- Preparing a database of guides and research scholars in education.
- Publishing Educational Research Journals based on the research councils of IITE.
- Providing the data analysis facilities.
- Collecting and managing data from the university and affiliated colleges.

- To form the Gujarat Educational Research Guides Association (GERGA) and Indian Educational Research Guides Association (IERGA).

Objectives of Department of Testing and Evaluation:

- To conduct research in the area of examination anxiety
- Use of ICT in testing, innovations in testing and examination, self-assessment, process assessment, performance assessment, skill assessment, personality assessment, values assessment, attitude assessment, aptitude assessment, examination reforms etc.
- To provide testing services related to various psychological tests
- To construct, adopt psychological test and experiments
- To provide standardized research tools to the schools, colleges and research scholars
- To develop the question banks in various areas of education and teacher education

Objectives Department of SSIP:

- The Student Start-up and Innovation Policy of Government of Gujarat aims to create an integrated, state-wide, University based Innovation ecosystem to support innovations and ideas of young students to provide a conducive environment for optimum harvesting of their creative pursuit.

Objectives of Department of Research in Education, Languages, Sciences and Social Sciences:

- Organizing expert talks, guest lectures, seminars, workshops and conferences for the benefit of the researchers related to the various subjects of education, languages, science and social sciences
- In line with NEP 2020, to promote inter-disciplinary and multi-disciplinary researches with the help of academic collaborations with the various HEIs and Collaborating with various government and non-government organisations and agencies
- Providing guidance and support to the faculty members and research scholars for high quality research publications and Motivating and supporting the faculty members and research scholars for high quality research work in their respective disciplines

- Establishing facilities of Data Analysis software (Qualitative as well as Quantitative) and providing its services to researchers, educational institutions and universities

Research Councils:

Under this centre five Research Councils focuses on the thrust area of research. Centre of Research at IITE focuses on the research area such as New roles of contemporary teachers, Art and Science of nurturing gifted children, Art and Science of care of the weak and of those who are psychologically and physically challenged, Special problems of childhood, adolescence and youth, Philosophy and psychology of education in the light of Indian pedagogy and contemporary development. CoR has established Innovation Club.

Till now total seven meetings were done by various research councils. The last meeting was held on 16th and 17th May 2022. The 8th Meeting will be organised in 18th June 2023.



Centre Council of Centre of Research:

Members of Centre council of Centre of Research are as follow:

Shri Narotam Sahu: Adviser & Member Secretary, Gujarat Council on Science and Technology

Prof. C. B. Sharma: Professor, School of Education, Indira Gandhi National Open University, New Delhi

Prof. Harish Hirani: Sr.Prof.(HAG),Department of Engineering, IIT Dehli

Dr. Ambati Nageswara Rao :Dean, Research and Publications & Assistant Professor of Social Work, Gujarat National Law University, Gandhinagar

Dr.Viral Jadav: Director, Center of Research, IITE, Gandhinagar

Prof. Prerana Shelat: Director, Center of Education, IITE, Gandhinagar

Prof. Divya Sharma: Director, Center of Special Education, IITE, Gandhinagar

Prof.Jayna A. Joshi: Professor, Center of Education, IITE, Gandhinagar

Till now total 4 centre council meetings are organised by Centre of Research. The third meeting was done on 28th December, 2022 and the fourth one was held on 2nd May 2023.

:- CoR Activities: -

**Indian Institute of Teacher Education
Centre of Research**

Sr. No	Date	Department	Activity
1	20/06/2022 to 24/06/2022	CoR and MGCU Motihari	One-week National orientation programme on “Experimental Research”
2	01/09/2022 to 10/09/2022	CoR	ICSSR Sponsored “Research Methodology Course”
3	15/10/2022	SSIP	SSIP 2.0 awareness programme
4	14/02/2023 to 25/02/2023	Dept. of Testing and Evaluation	Ten-days National webinar on “Tool Construction”
5	29/3/2023	SSIP	“Aavishkar”- An SSIP Workshop On “IPR & Innovations - Smart IP Management”
6	Seed money provided by COR to faculty members for conducting Research Projects		
7	ICSSR sponsored Major Research Project		
8	Namo Matrubhumi Mission Sharda		

REPORT OF One-week National Orientation Programme on Experimental Research

20/06/2022 TO 24/06/2022



न हि ज्ञानेन सदृशं पवित्रमिह विद्यते

Indian Institute of Teacher Education, Gandhinagar
(A State Public University established by Government of Gujarat)

&
Mahatma Gandhi Central University, Bihar
(Centre of Research, IITE & School of Education, MGCU)

Jointly Organize

One Week Online Orientation Programme

On



Patron

Dr. Harshad A. Patel
Vice-Chancellor,
IITE, Gandhinagar

Experimental Research

From 20th to 24th June 2022

Timing/s : 6:30 p.m. to 7:30 p.m.

7:45 p.m. to 8:45 p.m.

Mode : Online

RESOURCE PERSONS



Prof. Asheesh Srivastava

Head, Department of Educational Studies,
Dean, School of Education,
Mahatma Gandhi Central University, Bihar.

Topic: Research Methods: Concept and Types
Date: 20/06/2022 * Time: 6:30 p.m. to 7:30 p.m.



Prof. Satishprakash S. Shukla

Director, Centre of Research,
IITE, Gandhinagar.

Topic: Variables and Hypotheses
Date: 20-06-2022 * Time: 7:45 p.m. to 8:45 p.m.
Topic: True experimental Design
Date: 22-06-2022 * Time: 6:30 p.m. to 7:30 p.m.
Topic: Pre Experimental Design
Date: 22-06-2022 * Time: 7:45 p.m. to 8:45 p.m.



Prof. D. N. Sansanwal

Former HOD and Dean,
SDE, DAVV, Indore.

Topic: Definition, Principles and Types of Experimental Design,
Non-Equivalent Controlled Group Design
Date: 21-06-2022 * Time: 6:30 p.m. to 7:30 p.m.
Topic: Pre-Test – Post Test Controlled Group Design;
Post Test only Controlled Group Design.
Date: 21-06-2022 * Time: 7:45 p.m. to 8:45 p.m.



Prof. Nikme S C Momin

Department of Education,
North-Eastern Hill University
(Central University),
Tura Campus, Chasingra, Tura, Meghalaya.

Topic: Internal Validity of Experimental Design
Date: 23-06-2022 * Time: 6:30 p.m. to 7:30 p.m.



Dr. Yodida Bhutia

Associate Professor,
Department of Education,
Sikkim University (A Central University),
Tadong, Gangtok.

External Validity of Experimental Design
Date: 23-06-2022 * 7:45 p.m. to 8:45 p.m.



Prof. S. K. Tyagi

ICSSR Senior Fellow
Former Dean & Head
School of Education (IASE)
UGC Department of Special Assistance I
Davi Ahilya Vishwavidyalaya, Indore.

Topic: Data Analysis Techniques in Experimental Research
Date: 24-06-2022 * Time: 6:30 p.m. to 7:30 p.m.



Prof. Megha M. Uplane

Head, Department of Education & Extension
Savitribai Phule Pune University Pune,
(Formerly University of Pune)

Topic: Steps in Experimental Research
Date: 24-06-2022 * 7:45 p.m. to 8:45 p.m.

Indian Institute of Teacher Education, Gandhinagar and Mahatma Gandhi Central University, Bihar jointly organised one-week online orientation program on experimental research. The program was conducted during 20 June 2022 to 24 June 2022. The mode of the program was online and there were 6 different experts.

Prof. Asheesh Srivastava, Head, Department of Educational Studies, Dean, School of Education, Mahatma Gandhi Central University, Bihar. Prof. Satishprakash S. Shukla, Director, Centre of Research, IITE, Gandhinagar. Prof. D. N. Sansanwal, Former HOD and Dean, SOE, DAVV, Indore. Prof.M.T.V. Nagaraju, Dean, Faculty of Education, Indira Gandhi National Tribal University, Amarkantak. Prof. S. K. Tyagi, ICSSR Senior Fellow Former Dean & Head School of Education (IASE) UGC Department of Special Assistance-I Devi Ahilya Vishwavidyalaya, Indore. Prof. Megha M. Uplane, Head, Department of Education & Extension Savitribai Phule Pune University', Pune were the experts who took lectures on various topics like Research Methods: Concept and Types, Variables and hypotheses, Pre Experimental Design, External Validity of Experimental Design, Definition, Principles and Types of Experimental Design, Non-Equivalent Controlled Group Design, Pre-Test – Post-Test Controlled Group Design; Post Test only Controlled Group Design, Internal Validity of Experimental Design, Data Analysis Techniques in Experimental Research, Steps in Experimental Research and Dr. Ritu Bakshi from Central University of Jammu, Dr Jyoti Rawal from Indian institute of teacher education Gandhinagar, Dr Sudhir Kumar Tandel, Indian institute of teacher education, Dr. Ashok Kumar Erigala, NEHU Shillong, Dr Shweta Dwivedi, Mizoram University, MS Sanjana Tirkey, St Xavier's College of Education Patna, Dr Nazia Hassan from Manipur University Imphal , Dr Ismail Thamarasseri from Mahatma Gandhi University Kerala, Dr Biswajit Behera from Central University of Punjab and Dr. Viral Bharatbhai Jadav from Indian Institute of Teacher Education, Gandhinagar were the coordinators of the online sessions.

Dr kadam Shrinivas research advisor centre of research Indian institute of teacher education was the organising secretary of the event and Dr. Pathloth, Assistant Professor Department of Educational Studies, School of Education, Mahatma Gandhi Central University, Bihar was also the organising secretary. 166 participants successfully completed this online orientation program from various states of India. Certificates were provided to all the participants who successfully completed the orientation program.

Ten Days Research Methodology Course for M.Phil./Ph.D./PDF Scholars in Social Sciences (Offline)

Center of Research has organized a Ten Days Research Methodology Course for M.Phil./Ph.D./PDF Scholars in Social Sciences in offline mode from 1st September to 10th September 2022 sponsored by the Indian Council of Social Science Research (ICSSR). It was successfully completed with smooth cooperation between the organizing team and the participants across the country. Dr. Viral Jadav was the course director and Dr. Jyoti Raval was the joint director of the course. ICSSR has given grant of Rs. 5,50,000 for this course.

Five resource persons were invited from Bihar (2), Delhi (1), Uttar Pradesh (1), and Bhopal (1). Six resource persons were invited from different regions of Gujarat like Vadodara (3), Ahmedabad (1), and Gandhinagar (2). Seven resource persons were of IITE, Gandhinagar. All the experts are from the discipline of education; except one resource person of Gandhinagar from library science. There were 24 participants selected from education, four from economics, two from social work & special education, and one-one participant from Psychology, welfare, economics, marketing, psychological science, political science, rural development, management, security studies, tourism studies, and agricultural finance each.

Different qualitative, as well as quantitative analytical tools, have been discussed with the discussion of research methods. The use of 'SPSS', 'JASP' and 'Excel', 'Access' was discussed for quantitative data analysis methods. 'NVIVO', 'ATLAS.ti7', 'Ethnograph 6', and 'Answr' have been discussed for the qualitative data analysis. Participants were made aware of Academic Integrity and Research Quality, sources of literature required during the research and enabled to search literature out of different sources and review the literature for identifying the research problem. Participants learn to develop research proposal. They have developed their understanding regarding research and research methods, the research tool including the development of research tool. They have learned to apply proper data analysis techniques to analyse their data. Learn proper format of proposal writing and became aware of UGC Regulation Regarding Plagiarism.



Discussion on start-up (An interactive session) Programme-3

A discussion on start-up (An interactive session) was organized on 15th Oct, 2022 by the Department of Student Start-up and Innovation under the Centre of Research of the Indian Institute of Teacher Education. The event was organized under the joint initiative of IITE, Gandhinagar and the Gujarat University & AIC-GUSEC Foundation.

The event was attended by Ms. Harsiddhi Shah program head of AIC-GUSEC and two Startups from AIC-GUSEC. Nidhi Jha Founder of BIOPOT and Mr. Shashank Nimkar Founder of Earth Tatva. A total of 65 (UG and PG) students participated enthusiastically in the entire event. Ms Harsiddhi Shah focused on the basics of the startup and startup - entrepreneurship importance of innovation in daily life as well as studies of student's life. He discussed the core points of start-up, process of start-up, Incubation etc. Ms. Nidhi founder of BIOPOT gave detailed information about the Journey of development of startup development, awards and appreciation. Mr. Shasank Nimkar Founder Earth Tatva shared his experience about startup. And how develop idea to start-up and also patent registration. Both startups are happy with her/his startup because her/his innovation contribute to reduce problems of society and also contribute to improve quality of life.

At the end of the program, The Program Head Dr. Bhavesh Raval completed the program by thanking the expert and start-ups.



REPORT OF NATIONAL WEBINAR ON TOOL CONSTRUCTION

FROM 14/02/2023 TO 25/02/2023

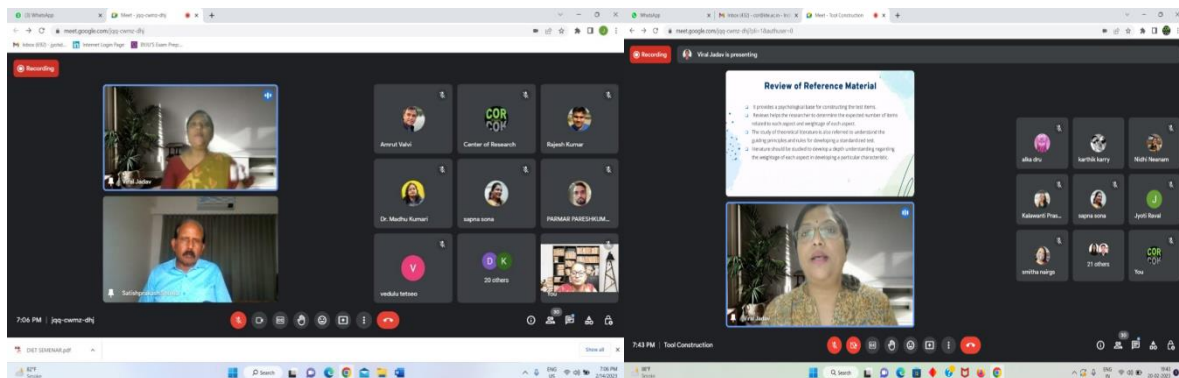
The Department of Testing and Evaluation, Centre of Research, Indian Institute of Teacher Education, Gandhinagar organized National Level Webinar on Tool Construction during 14/02/2023 to 25/02/202 at 7:00 p.m. to 9:00 p. m.

Dr. Viral Jadav, Director, Centre of Research, IITE, Gandhinagar facilitated as advisor and Dr. Jyoti Raval, Head, Department of Testing and Evaluation, Centre of Research, IITE, Gandhinagar acted as Convener for this webinar.

This National webinar received a great deal of attention and commendable responses from research scholars and research supervisors all over the country. A total **34** participants from various states like Gujarat, Telangana, Kerala, Uttar Pradesh, Tamil Nadu, Bihar, Kolkata, Odisha, Nagaland, Chhattisgarh were registered. All the trainees actively participated in this initiative great zeal. Total Represented States in this National Webinar are 10.

In conclusion, the webinar on tool construction in research provided valuable insights and information for researchers looking to develop and improve their tools. The experts shared their expertise on various aspects of tool construction, including design, implementation, and evaluation. Overall, the webinar was a success in providing a comprehensive overview of tool construction in research and enabling attendees to improve their skills in this area.

The webinar was ended by Vote of Thanks by the Convener Dr. Jyoti Raval. Certificates were issued by the department after successful management of the program.



AAVISHKAR, AN SSIP SOAPBOX@IITE

An IPR & Innovation Workshop

"Aavishkar"- an SSIP Workshop on "IPR & Innovations - Smart IP Management" was organized by the SSIP Cell, Centre of Research, Indian Institute of Teacher Education, Gandhinagar on 29th March 2023.

The workshop was led by renowned IPR expert, Shri Padmin Buch, and it was an incredibly informative and engaging experience. Participants were able to gain a deeper understanding of intellectual property rights and how to manage them effectively in their academics and organizations.

All the post graduate students of Centre of Education and all the teaching faculties attended this informative and useful workshop.

Dr Viral Jadav, Director, Centre of Research, IITE and Dr Mehul Dave, Head, SSIP Cell, IITE shared the stage along with Dr Padmin Buch. The program was hosted by Dr Hetal Patel. Verbal welcome was given by Dr Viral Jadav and introduction of the expert speaker along with incidental speech was given by Dr Mehul Dave. Dr. Buch then discussed the different types of IP then discussed the importance of IP for academia.

The workshop was a great success and SSIP Cell likes to extend heartfelt gratitude to Hon. Vice Chancellor Harshad A. Patel to motivate for organizing this. Thanks to Shri Padmin Buch for his invaluable insights and guidance. We would also like to thank all the participants for their active participation and contribution towards making this workshop a grand success. Winners of various competitions organized to celebrate Science Day were given prizes during the inaugural session of the workshop.



Details regarding the seed money provided to the faulty members for research projects: September-2022

Sr. No.	Name of the Investigator	Institute	Designation	Title of the Project	Amount	Remark
1	Dr. Dipti Kundal	Smt. M.M.Shah college of Education, Wadhvan	Associate Professor	Problems and Remedies of language education of upper primary school and construction and effectiveness of module for teaching language education	70,000/-	Dr. Dipti Kundal has refunded the seed money as she could not carryout research work.
2	Dr Hitesh Kagathara	S.D. Shethiya College of Education, Mundra-Kachchh	Assistant Professor	A study of opinion towards the Gyankunj Programme in Upper Primary School	70,000/-	Report will be submitted by July 23
3	Dr. Kaushal Yadav & Dr. Dharmendra Bumtaria	A. G. Teachers College, Ahmedabad	Principal (Offg.), & Adhyapak Sahayak	Experiential Learning in Teacher Education	1,30,000/-	Report will be submitted by July 23
4	Dr. Rohit Patel	DIET, Navsari	Assistant Professor	Awareness study on implementation of National Education Policy(NEP 2020) in Primary school education of south Gujarat	70,000/-	Report will be submitted by July 23
5	Dr. Keval Gadani	Centre of Education, IITE, Gandhinagar	Assistant Professor	Electrical Properties studies on magnite based thin film devices: Effect of swift heavy ions irradiation	1,50,000/-	Report will be submitted by July 23

ICSSR Sponsored Major Research project :

Prof. Jayna Joshi has received grant of Rs. 8,50,000 from ICSSR for conducting research project. The title of the project is: Assessment of the Quality of Early Childhood Care and Education in Gujarat State

Namo Matrubhumi Mission Sharda:

Under the Namo Matrubhumi Mission Sharda project total 36 students of M.Sc./M.A.-M.Ed. and M.Ed. has conducted research about the educational history of different 33 Districts of Gujarat and they submitted their report in April 2023.

Centre of Research has received the grant of ₹ 2,35,84,000.00 for conducting three seminar and five major research projects. The detail regarding the same is mentioned below:

1. Estimated Expenses for the Seminars			
Sr. No.	Particular	Target Group	Total ₹
1	Seminar on NEP 2020-Implementation Strategy	College Teachers	₹ 2,98,000.00
2	Seminar on NEP 2020-Implimentation Strategy	Secondary School Teachers	₹ 2,98,000.00
3	Seminar on NEP 2020- Implimentation Strategy	Primary School Teachers	₹ 2,98,000.00
Total Amount			₹ 8,94,000.00
2. Estimated Expenses for Research Projects			
1	Progress of Primary Education in Gujarat-Post Independence Era	Primary Education System of Gujarat	₹ 92,00,000.00
2	Progress of Secondary Education in Gujarat-Post Independence Era	Secondary Education System of Gujarat	₹ 74,85,000.00
3	Comparative Study of Education Policies Implemented in Gujarat since Independence	Education policies of Governemnt	₹ 6,75,000.00
4	Current Status of Schools Education of Gujarat in Terms of Implementation on NEP 2020	Schools Education of Gujarat	₹ 26,65,000.00
5	Current Status of Higher Education of Gujarat in Terms of Implementation on NEP 2020	Higher Education of Gujarat	₹ 26,65,000.00
Total Amount			₹ 2,26,90,000.00