

NORTH EAST REGIONAL INSTITUTE OF EDUCATION, SHILLONG
(NATIONAL COUNCIL OF EDUCATIONAL RESEARCH & TRAINING)



National Seminar Science Education
14 - 15th November, 2019

Day-1: 14th November, 2019

Registration	: 9:00 AM – 10 AM
Inauguration	: 10:00 AM – 11:30 AM
Tea break	: 11:30 AM – 12:00 noon

Paper Presentation

Technical session -1 (Day-1)

Conference Room 1									
	<table border="1"><tr><td>Theme/Sub Themes</td><td>Traditional Knowledge in Science Education</td></tr><tr><td>Chairperson</td><td>Prof. Subhas Chandra Roy</td></tr><tr><td>Rapporteur</td><td>Ms. Susangzenla Longkumar</td></tr><tr><td colspan="2">Papers & Presenters</td></tr></table>	Theme/Sub Themes	Traditional Knowledge in Science Education	Chairperson	Prof. Subhas Chandra Roy	Rapporteur	Ms. Susangzenla Longkumar	Papers & Presenters	
Theme/Sub Themes	Traditional Knowledge in Science Education								
Chairperson	Prof. Subhas Chandra Roy								
Rapporteur	Ms. Susangzenla Longkumar								
Papers & Presenters									
12:00 PM - 0 1:15 PM	<ol style="list-style-type: none">1. Pedagogical Implications of Spiritual Ecology and Traditional Ecological Knowledge - Krishan2. In Silico Analysis on the Therapeutic Potentials of Kandangkathiri Leghyam, a Polyherbal Siddha Formulation for Respiratory Diseases – A Review - A.Guruprasad3. Ethnic aspect of Science Concept Understanding: Ethnoscience - Eisha4. Use of traditional knowledge in Science education – a case study at Kokrajhar District, Assam, India - Gautam Dev Sarma5. A Study on traditional Weather and Climate Prediction practices in Odisha - Himanshu Shekhar Fatehsingh6. Role of Ethno-Hydrology in Teaching Climate Change Mitigation & Achieving Ecological and Cultural Sustainability - Jagjit Kaur7. Traditional Knowledge Digital Library and Its Significance - Suraj Sharma, Nitul Das, Krishna Neog8. Traditional Knowledge in Science Education – Rameshkumar Amarashi Dhoakiya, Parmar Sunilkumar Ramjibhai9. Integrating Ethno-Science in Secondary School Science Curriculum - Pallabi_Mohapatra10. Utilization of Jute Retting Water for Electricity Generation Using Bio-voltaic cell – An extended work of class seven on voltaic cell - Tushar Nath								

Technical session -2 (Day-1)

Conference Room- 2

12:00 noon - 0 1:15 PM	Theme/Sub Themes	Implementation of Educational policies & Popularization of Science Education
	Chairperson	Prof. M. K. Satpathy
	Rapporteur	Dr. T. Newmei
	Papers & Presenters	
	1. A case study of Kakching Library and Information Centre for Science Education - Naorem Berlin Singh	
	2. A study on impact of STEM education in teaching science - A constructivist approach - Omprakash Mishra	
	3. Impact of Secondary School Readiness Programme UTKARSH on achievement & process skill of students in science: A Case study in Jagatsinghpur district - Padaraj Umakanta Nayak	
	4. Tracing The Trends Of Science Education In India: A Policy Prespective - Parminder Kaur	
	5. SCIENCE LEARNING: SOURCES, RESOURCES AND REFORMS - Rabindranath Lenka	
	6. Role of National Organizations in Popularizing Science in Indian Education System - Taznin Ara Choudhury, Sunaina Bhattacharjee	
7. Indian Education Policies And School Science Education In Post-Independence Period - Vijay P.Singh		
8. Enhancing Science Learning Through Mobile Technology - S Rajkumar		
9. Empower science learning through co-curricular activities – Aviram Panda		
10. Impacts of Eco-Clubs Activities On Pupils and Society - Dilip kumar Dhal		

Lunch break: 01:15 PM- 02:15 PM

Technical session -3 (Day-1)

Conference Room 1		
02:15 PM - 03:30 PM	Theme/Sub Themes	Science Learning – Issues and Concerns (1)
	Chairperson	Prof. Shashi Prabha
	Rapporteur	Mr. B Umesh Kumar Sharma
	Papers & Presenters	
	<ol style="list-style-type: none">1. Head Teacher’s Instructional Leadership practices and Science Teachers Pedagogical Practices: An Analysis - Aashish2. Attitude of Teachers Towards Teaching: A Comparative Study Among Science and Social Science Teachers – Almaas Sultana3. A Study on Scientific Attitude among In- Service Teachers at Secondary level in Lower Subansiri District, Arunachal Pradesh - Dilima Siga, Gouranga Biswas4. Enhancing the Effectiveness of Science Evaluation among Primary School Teachers - K.Rameshkumar , Dr E. Maanhvizhi, Dr M.Selvam5. The tug of war between sciences and social sciences - Minakshi Sharma6. A Study of Science Interest of Secondary School Students in Lower Subansiri District, Arunachal Pradesh - Gouranga Biswas, Dilima Siga7. The development of the notions related to the Earth, the Moon and the Sun among Children in Elementary Schools: A multi-Cross-Sectional Study - Mithlesh Kumar8. Motivation a Dream Project for better education of Learners in Deogarh District in the state of Odisha - Nakul Mahanta9. Looking Beyond: Alternative Conceptions in Science – Simran10. Effectiveness of Constructivist Teaching Approach in Enhancing Achievement in Science of Secondary Level’s Students- Sumit11. Learning science is daringly different through constructivist approach - Pramod Kumar Kar	

Technical session -4 (Day-1)

Conference Room 2		
02:15 PM - 03:30 PM	Theme/Sub Themes	Science Learning – Issues and Concerns (2)
	Chairperson	Prof. B. Barthakur
	Rapporteur	Dr. Seema R.
	Session Coordinator	
	Papers & Presenters	
	1. A Study On Improvement of Science Learning Through Smart Virtual Classroom Among Teacher Training Students Of Nagapattinam District - AC Palanisamy	
	2. Efficiency Of Implementing Modern Technology In The Process Of Science Learning – Ajay Kumar Barad	
	3. ICT integration in Science Learning - Suren Tatarwal	
	4. Awareness of Secondary School Science Teachers on E-Learning – Asia	
	5. Impact of Digital Media on Science Learning at Upper Primary Level in Government Schools - D Somasundharam	
	6. E-Learning Strategy to Enhance the Achievement of Elementary School Students in Science - Jagpreet	
7. To study the impact of using smart boards for teaching and learning of science in classrooms of Govt. Aarohi model school–Geong(Haryana) - Manish Singla		
8. Study of Brain-computer interface: - a Modern approach for Education through ICT - Mayank Sharma		
9. Role of ICT In Science Education - Mousumi Chaudhari		
10. Teaching Biology by using ICT is more comprehend than traditional approach - Shashisekhar Kar Sharma		
11. Effectiveness of 3D Approach in Achieving Certain Competencies in Physics among IX Standard Students - Panneer Selvam		

Tea break : 03:30 PM- 04:00 PM

Technical session 5 (Day-1)

Conference Room 1		
04:00 PM - 05:30 PM	Theme/Sub Themes	Science Learning – Issues and Concerns (3)
	Chairperson	Dr. Tulika Dey
	Rapporteur	Dr. Prachi Ghildyal
	Papers & Presenters	
	<ol style="list-style-type: none"> 1. Effectiveness of Video lessons on learning outcomes in science subjects: at secondary schools of Tripura - Surajit Kar, Bornita Purkayastha 2. Semantic Web based Support System for Self-learning in Science - Anand Kumar 3. Technology in the Classrooms: Their benefits of Smarts Boards - Vishal Aggarwal and Shalini Gupta 4. A study on impact of technology integration in teaching learning process of science subjects, at upper primary school karamsar, chopan-sonbhadra, U.P., a tribal area school - Maneesh Patel 5. MOOC model Pedagogy in School Education- Pesara Prabhakar Reddy 6. Study of Techno- Pedagogical Competencies in Science Teachers - Pratibha Garg 7. Pedagogical Use of ICT in Science Education in the Light of Techno Pedagogic Content Knowledge (TPCK) – Sumi 8. Self-learning tools in Science for students at secondary level - Elishiba Limboo 9. Effect of cooperative learning on self-concept and achievement in science of students at Elementary level – Basanti Behera 10. Science Teaching Through Learning by Doing, Followed by Social Media, Need for Effective Education; Maintain Sustainability - Kamala Kanta Praharaj 11. Sorting and Selecting Science Education - Preeti Yadav 	

Technical session 6 (Day-1)

Conference Room 2		
04:00 PM - 05:30 PM	Theme/Sub Themes	Innovative Practices in Science Education (1)
	Chairperson	Prof. Flourette G. Dkhar
	Rapporteur	Dr. Anand Valmiki
	Papers & Presenters	
	<ol style="list-style-type: none"> 1. Innovative practices in science Education - Chandrakesh Singhal 2. Using authentic materials i.e. currency notes, coins, postage/ philately stamps and feathers to comprehend the concept of 'Biodiversity' in higher secondary classes - Rajesh Patil 3. FOLDSCOPE – a tool for innovative teaching of science beyond laboratory - Raju Das 4. Innovative Methods of Teaching in Science - Sumati 5. Science Education through brain Mapping - Vibha Jain 6. Innovative practices in science education - VS Narayan Inupakurthy 7. Teaching science through improvised Aids - Pranabandhu Hota 8. Innovative Practice in Science Education - Pritilal Das, Nayan Deka 9. Innovative Practices of Teaching Science in Secondary Level - Arundhoti Borah 10. Innovative Practices in Teaching Science at the Secondary Schools of Manipur Imphal West District - Aribam Pramila Devi 11. Impact of Puppetry Supported Science Teaching on Cognitive Behavior of Students in Multigrade Classroom- E. Maanhvizhi , K.Rameshkumar, Dr M.Selvam. 	

*****Cultural Program by B.Ed Students of NERIE from 5:30 PM at the Auditorium *****

Day-2: 15th November, 2019

Time : 9.30 AM – 10.45 AM

Key note address : Prof. M. K. Satpathy

Tea break : 10.45 AM - 11.15 AM

Technical session 7 (Day-2)

Conference Room 1		
11:15 AM- 01:00 PM	Theme/Sub Themes	Science Education for Sustainable Development & Innovative Practices in Science Education (2)
	Chairperson	Prof. Balaida R. Dkhar
	Rapporteur	Dr. Basansy Kharlukhi
	Papers & Presenters	
	<ol style="list-style-type: none">1. Class of Science & Technology: A Sound Investment of Science Education in School Students to Achieve SDGs 2030 – Bhavini Parmar2. Eco friendly village stove - Kailash_Parida3. Environment Education in Science Curriculum for Sustainable Development - Subash Chandra Patra4. Teaching of Science Education with the goal of SDG 2030 with ICT and current affairs- S. Jawahar5. Studying the Water bodies in the Locality - Sushant Kumar6. Role of science education in achieving sustainable development goal 2030- Vijay Kumar7. Teaching Physics through Bamboo Apparatuses - Brajesh Dixit8. Anti-Overflow System - Zaeem Ahamd9. Academic Life Satisfaction and Achievement in Physics- Athira10. Effectiveness of Spaced Learning Pattern in Physics for Enhancing Retention Power of Secondary School Students - Meera K P11. Does Art Integrated Strategy Enhance Achievement in Mathematics among Secondary School Students: An Experimental Approach - Arjun R S12. Experiential Learning for Pre-Service Science Teachers - Shivani Guleria13. Effectiveness of Concept Mapping Strategy on Cognitive Processes in Science at Secondary Level – Saradindu Bera	

Technical session 8 (Day-2)

Conference Room 2		
11:15 AM - 01:00 PM	Theme/Sub Themes	Science Learning – Issues and Concerns (4)
	Chairperson	Smt. Shatarupa Palit
	Rapporteur	Dr. Ch. Sarajubala Devi
	Papers & Presenters	
	1. Exploring male dominance in the general purview of Science and tracing its historical footprints -Ajay Kumar	
	2. Importance of visualization in science education with special reference to high school students - Amlan Kumar Dey	
	3. Developing Cognitive Abilities in Science Education: Scientific Creativity - Anjali Sharma	
	4. Effective Classroom Learning by detecting Barriers and utilising Remedies - Baijayanti Sahoo	
	5. Effect of 7E Learning Cycle on Learning in Science Teaching: An Experimental Study - Bindhu C M	
	6. Is Metaphorical thinking related to development of Cognitive structures among learners? - C. Girija Navaneethan, T.J.Kamalanabhan	
	7. Social and Psychological Barriers in Science Learning of Visually Impaired Students - Khushaboo Verma	
	8. Explanation of the perception of teacher and students on meta-cognition through science pedagogy in secondary school-a case study - Meenakshi Ingole	
9. A study of Scientific attitude among the students of secondary level in government school of harmoti gaon panchayat and dakhin laluk gaon panchayat, lakhimpur district - Nitul Das, Suraj Sharma, Seema R		
10. Learning Science Through 5'D Approach - Rashmirekha Samantaray		
11. Relationship between Socioeconomic Status and Academic Achievement in Class X Life Science Students at Secondary Schools - Rakesh Manna, Jayanta Mete		
12. Use of experiments in achieving learning outcomes in Science - Seema R Nambiar		

Lunch break: 01:00 PM - 02:00 PM

Poster Presentation & Exhibition (2:00 PM – 2:30 PM)

Session Coordinator & Rapporteur: Mr. B. Umesh Kumar Sharma

Panel Discussion (2:30 PM- 3:15 PM)

Panelists:

Prof. Subhas Chandra Roy
Prof. M. K. Satpathy
Prof. Shashi Prabha
Dr. Tulika Dey

Session Coordinator: Prof. Balaida R Dkhar

Rapporteur: Mr. Arun Raj

Tea break : 03:15 PM - 03:30 PM

Valedictory: 03:30 p.m. – 05:00 p.m.