

3.1.4 Institution has created an ecosystem for innovations and other initiatives for creation and transfer of knowledge that include

Supporting Documents

SL No.	Subject	Page No.
01	Participative efforts (brain storming, think tank, etc.) to identify possible and needed innovations	01-25
02	Encouragement to novel ideas	26-51
03	Official approval and support for innovative try-outs	52-59
04	Material and procedural supports	60-73



Regional Institute of Education
(National Council of Educational Research and Training)
Bhubaneswar -751022, Odisha

1. Participative efforts (brain storming, think tank, etc.) to identify possible and needed innovations

01. In order to bring in innovations there is an academic forum in the Institute. The Academic forum organizes participatory, brainstorming seminars and circles and various innovative ideas gets generated through the forum.
02. Through Extension Lecture Series programmes, eminent personalities are invited to talk and discuss about various pertinent themes on contemporary issues relating to education in the country.



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NO.RIEB/DE-073

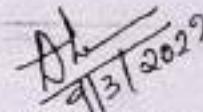
Date: 09.03.2022

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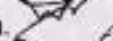
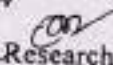
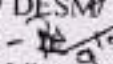
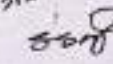
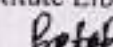
With reference to the letter received from NCERT, as part of Academic Forum, a discussion is planned on 10th March 2022 at 4.30 pm in the Staff Common Room to elicit opinion / suggestions on guidelines for the position papers of the National Focus Group received from the National Steering Committee. Prof. Laxmidhar Behera would initiate the discussion.

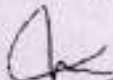
It is requested the Heads of the Department to continue the discussion in their respective Department and the consolidated report of the suggestions to be sent to the convenor, Academic Forum (email:dkkrie@gmail.com) for finalisation.

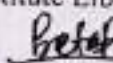
This issues with approval of the competent authority.


(Dhanya Krishnan)
Convenor, Academic Forum

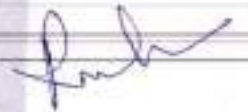
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NO.RIEB/DE-066

Date: 10.02.2022

NOTICE

As part of Academic Forum activity a brainstorming session on Teacher Education from perspective of NEP 2020 will be held on 10.02.2022 at 4.00 pm in the Education Seminar Room of the Institute. Dr. Upasana Ray will initiate the discussion. All faculty members of the Institute and teachers of D.M. School are requested to participate in the programme.

This issues with approval of the competent authority.

Dr.
10/02/2022

(Dhanya Krishnan)

Convener, Academic Forum

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DESM
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NO.RIEB/DE-059

Date: 15.12.2021

NOTICE

As part of Academic Forum activity a discussion about astronomical mystery of time cycle by Mr. B. K. Mukharjee will be held on 17.12.2021 at 10.00 am in the New Auditorium of the Institute. All faculty members and students of the Institute and teachers of D.M. School are requested to participate in the discussion.

[Handwritten Signature]
15/12/21

(Dhanya Krishnan)
Convenor, Academic Forum

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Notice

Dt. 03.01.2019

Mr. Manojan K.P. from Department of Education, RIE, Bhubaneswar will deliver a talk on "Constructing the Dropout childhood : Implications for forward schooling among Pariyars of Kerala" in the seminar room of the Institute at 4.30 PM on dt. 03.01.2019.

All faculty members of the Institute & D.M. School are requested to attend the programme.


(Prof. Ritanjali Dash)
Academic Forum

OK

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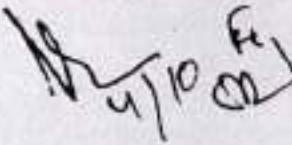
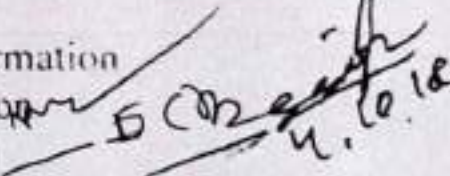

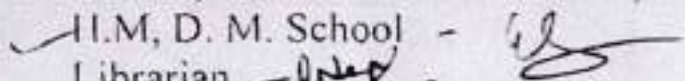
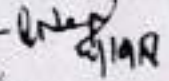
NOTICE

Dated: 04.10.2018

The Thursday Seminar under Academic Forum will be held on 04th October, 2018 from 4:30 p.m. to 5:30 p.m. in the Staff Common Room of the Institute. Ms. Sreemoyee Poddar, Research Scholar and Assistant Professor in Education (Contractual) of the Institute would deliver a presentation on **Educational Issues of Transgender Community**. Faculty members of the Institute and teachers of D.M. School are requested to participate in the discussion.


Dhanya Krishnan
(Convenor)

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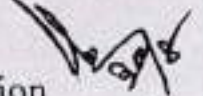
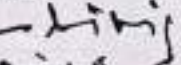
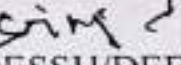
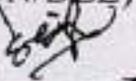
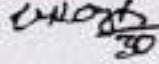
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Dated: 30.08.2018

The Thursday Seminar under Academic Forum will be held on 30th August, 2018 from 4:30 p.m. to 5:30 p.m. in the Staff Common Room of the Institute. Mrs. Gauri Roy, TGT Mathematics, DM School would deliver a presentation on **Early Childhood Education: Learning by Multi-sensory Approach**. Faculty members of the Institute and teachers of D.M. School are requested to attend the meeting and participate in the discussion.

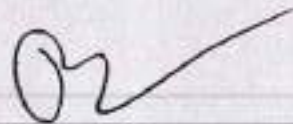

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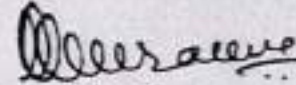
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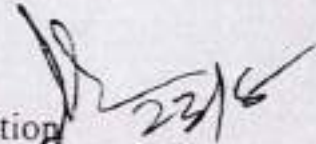
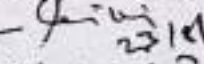
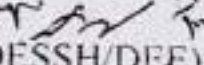
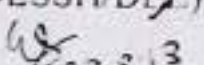
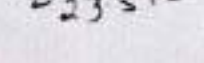

Dated: 23.08.2018

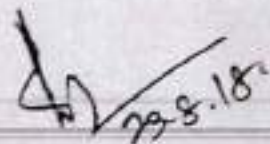
The Thursday Seminar under Academic Forum will be held on 23rd August, 2018 from 4:30 p.m. to 5:30 p.m. in the Staff Common Room of the Institute. Prof. S.P. Mishra, Head, Dept. of Education would deliver a presentation on **Evolving Phases of ICT in the field of education.** Faculty members of the Institute and teachers of D.M. School are requested to attend the meeting and participate in the discussion.



I.P. Gowramma
(Address)
Member

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ACADEMIC FORUM

NOTICE

Dated: 08.08.2018

The Thursday Seminar under Academic Forum will be held on 9th August, 2018 from 4:30 p.m. to 5:30 p.m. in the Staff Common Room of the Institute. Prof. Anoop Kumar would deliver a presentation on **The Relevance of Language and Literature at the Present Time** (वर्तमान समय में भाषा और साहित्य की प्रासंगिकता). Faculty members of the Institute and teachers of D.M. School are requested to attend the meeting and participate in the discussion.


8/8/18
Dhanya Krishnan
(Convenor)

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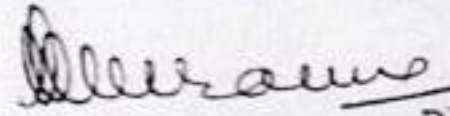
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ACADEMIC FORUM

NOTICE

Dated: 25.07.2018

The Thursday Seminar under Academic Forum will be held on 26th July, 2018 from 4:30 p.m. to 5:30 p.m. in the Staff Common Room of the Institute. Prof. Manasi Goswami would deliver a presentation on "Ethics of Professional writing vs. Plagiarism". Faculty members of the Institute and teachers of D.M. School are requested to attend the meeting and participate in the discussion.


Gowamma I.P. 25/7
(Member)

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Academic Forum

Notice

No:

Dated: 04.07.2018

The Thursday Seminar under Academic Forum will be held on 5th July, 2018 from 4:30 p.m. to 5:30 p.m. in the Staff Common Room of the Institute. Prof. B.N. Panda would deliver a presentation on "Education for Global Citizenship". Faculty members of the Institute and teachers of D.M. School are requested to attend the meeting and participate in the discussion.

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4/7/18

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Extension Lecture Programmes

Year : 2021-22

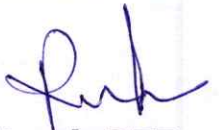
SL No.	Date	Topic	Name of the Eminent Person
01	11.11.2021	National Education Policy 2020-School Education	Prof. K. Ramachandran, Professor, NIEPA
02	23.11.2021	Communal Harmony	Prof. Pawan Kumar Agarwal, Former Vice Chancellor OUAT, Bhubaneswar
03	29.11.2021	Shiksha Ka Bharatiya Karana	Sri Mukul Kanitkar, Secretary, Vivekanand International Foundation
04	02.03.2022	Personality Development and Character Building	Sri Atul Kothari, Saraswati Bal Mandir, New Delhi
05	02.03.2022	Personality Development and Character Building	Sri Deshraj Sharma, National Coordinator
06	02.03.2022	Personality Development and Character Building	Sri Ashok Kadel, Director, Hindi Granth Academy, M.P.
07	02.03.2022	Personality Development and Character Building	Sri Jadav Jayandrasingh Rajubhai, Associate Professor, Dept. of Commerce, Gujrat University
08	11.03.2022	Character Building and Holistic Personality Development	Prof. Dilip Kumar Dey Former Dean, IGNTU, Amarkantak, M.P.


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Head, DEE

Year : 2020-21

SL No.	Date	Topic	Name of the Eminent Person
01	02.10.2020	Significance of Gandhiana Philosophy Today	Dr. Das Benhur Sahitya Akademi award winner writer from Odisha
02	31.10.2020	On National Unity Day and Vigilance Awareness Week	Prof. Narottam Gaan Indira Gandhi National Tribal University, Amarkantak
03	26.11.2020	On National Constitution Day	Prof. Amareswar Mishra, Dept. of Political Science, Utkal University
04	12.01.2021	Messages of Swami Vivekananda to Youth	Prof. Swatantra Sharma, State Training Head, Vivekananda Kendra, Kanya Kumari
05	23.01.2021	Enduring Legacy of Netaji Subhash Chandra Bose and Contemporary Challenges to Nation Building and Nation Integration	Profile of Sri Satyanarayan Sahu, served late K.R. Narayanan, President of India, as Officer on Special Duty and Press Secretary, Director in the PMO
06	30.03.2021	Character Building and Holistic Personality Development	Sri Atul Kothari, Saraswati Bal Mandir, New Delhi
07	31.03.2021	Teacher Education	Mr. Ashok Kumar Panda, Coordinator, National Teacher Education


Head, DEE



Principal
Regional Institute of Education
Bhubaneswar / Bhubaneswar-751022

Year : 2019-20

SL No.	Date	Topic	Name of the Eminent Person
01	15.04.2019	Indigenous knowledge and teaching learning strategies in India	Shri Mukul Kanitkar, Secretary, Vivekanand International Foundation
02	05.08.2019	Teaching and Learning in the Changing Knowledge Society	Prof. Soumendra Mohan Pattanaik, Vice Chancellor, Utkal University
03	07.08.2019	Critical Reflection on New Education Policy	Prof. M. A. Khader, former Principal, RIE, Bhubaneswar
04	08.08.2019	Literature and Critical Literacy Pedagogy	Prof. Stephanos Stephanides, former Professor of English, Cyprus University
05	12.09.2019	Gandhiji and Today	Dr. Das Benhur, Former Principal, SCS College, Puri
06	29.10.2019	Creating awareness for a corruption free society in public life.	Mr. Debasis Panigrahi, Additional D.G. Police and Director Vigilance, Cuttack
07	11.11.2019	The quality improvement of teacher education in meeting challenges of the society	Prof. Santosh Panda, former Chairperson, NCTE
08	27.01.2020	Teacher Education in 21st Century	Prof. M. Miyan, Ex-Vice Chancellor, MANU, Hyderabad
09	16.03.2020	Discussion on Teacher Education in the present context	Prof. K. B. Dash Member, NCTE



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Head, DEE

Year : 2018-19

SL No.	Date	Topic	Name of the Eminent Person
01	01.09.2018	Teacher Education in India	Prof. Ved Prakash, Former Chairman University Grant Commission, Delhi
02	12.11.2018	Quality Concerns in Teacher Education	Prof. Mahesh Chand Sharma Director, Teacher Education, UNICEF, New Delhi
03	04.03.2019	Contemporary Issues in Teacher Education in the 21 st Century	Prof. Anil Kumar Shukla, Vice Chancellor, Mahatma Jyotiba Phule Rohilkhand University, Bareilly
04	31.08.2018	Education as a subject and as a discipline	Prof. Umesh Chandra Vashistha, Professor of Education, Central Institute of Education, Delhi
05	31.08.2018	Peace Education	Prof. Jayadeba Sahoo, Prof. of Education, Rajiv Gandhi Central University, Itanagar, Arunachal Pradesh
06	20.09.2018	Why to study history of Literature	Prof. Jatindra Kumar Nayak, Former Head, Department of English, Utkal University
07	21.02.2019	Hazards and Disasters and their Management	Dr. Pradeep Mohapatra, Former Principal, Bhawanipatna College, Kalahandi
08	19.07.2018	Types of Cybercrime and Awareness	Mr. Akhaya Nayak, Inspector of Crime Branch, Berhampur


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Regional Institute of Education
भुवनेश्वर/ Bhubaneswar-751022


Head, DEE

Year : 2017-18

SL No.	Date	Topic	Name of the Eminent Person
01	08.11.2017	Ganita Sikhne aur Sikhane ki Padhati	Sri Hanuman Sahai Sharma
02	08.11.2017	Ganita Sikhne me Prayog Sala ka Upyog	Sri Nagarjuna Sharma President, Bodhayan, Jaipur
03	15.09.2017	Clean and Healthy India	Sri Jagadananda Sahoo Founder of Center for Youth and Social Development
04	18.08.2017	My Journey as a Poet	Prof. Jayanta Mohapatra, Eminent Poet and Physicist
05	17.11.2017	Mathematics and It's Application	Prof. S. Padhi, HOD, Department of Mathematics, Utkal University
06	31.01.2018	Swami Vivekananda Towards the Youth	Swami Aryananda, Ramakrishna Mission, Bhubaneswar
07	12.02.2018	Science for Sustainable Development	Prof. Bhupati Chakraborty Secretary, IAPT
08	18.03.2018	Discussion on Teacher Education and NEP	Prof. Mohd. Akhtar Siddique, Former Chairman, NCTE
09	27.03.2018	Global Scenario in Teacher Education	Prof. P. K. Sahoo Professor of Education, Former Dean, Allahabad Central University
10	18.03.2018	Discussion on Teacher Education and NEP	Dr. P. Bera Associate Professor of Mathematics, IIT, Rurkee
11	25.11.2017	Conservation of Bio-diversity in India	Dr. S. P. Parida Resident Scientist Regional Museum Natural History, Bhubaneswar



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Regional Institute of Education
भुवनेश्वर/ Bhubaneswar-751022



Head, DEE

Photographs of all extension lecture programmes

2021-22









2020-21

150th BIRTH ANNIVERSARY
On 2nd October 2020

REGIONAL INSTITUTE OF EDUCATION
(National Council of Educational Research & Training)
Bhubaneswar: 751022

Dashu Behera
Chief Guest

Prof. P. C. Agarwal
Principal

Live at 11:30 AM onwards

eswar is Celebrating 150th Birth Anniversary of Mahatma Gandhi

OF EDUCATION, BHUBANESWAR

"Iron Man of India"
Sardar Vallabhbhai Patel
(31 October 1875 – 15 December 1950)

Generations

- Baby Boomer: 1946-1964
- Generation X: 1965-1980
- Generation Y: 1981-2000
- Generation Z: 2001-2015
- Generation Alpha: 2016-

Alpha kids will grow up with iPads in hand, never live without a smartphone, and have the ability to transfer a thought online in seconds. These massive technological changes, among others, make Generation Alpha the most transformative generation ever: 2.5 Millions Alpha every week.

onal Institute of Education Bhubaneswar is Celebrating NATIONAL

REGIONAL INSTITUTE OF EDUCATION
(National Council of Educational Research & Training)
Bhubaneswar: 751022

Celebrating
NATIONAL EDUCATION DAY
To commemorate the Birth Anniversary of
Maulana Abul Kalam Azad
On 11th November 2020

Prof. Ashok K. Nagawat
Chief Guest

Prof. Prakash Ch. Agarwal
Principal

celebrating NATIONAL EDUCATION DAY. To commemorate the Birth

Regional Institute of Education Bhuban

REGIONAL INSTITUTE OF EDUCATION
(National Council of Educational Research & Training)
Bhubaneswar: 751022

Celebrating
NATIONAL CONSTITUTION DAY
On 26th November 2020

Prof. Anwarul Haque
Chief Guest

Prof. Prakash Ch. Agarwal
Principal

Dr. Kalinga Ketaki
Programme Coordinator

ng National Constitution Day.

NETAJI SUBHASH CHANDRA BOSE JAYA...

REGIONAL INSTITUTE OF EDUCATION
(National Council of Educational Research & Training)
Bhubaneswar: 751022

Celebrating
NETAJI SUBHASH CHANDRA BOSE JAYANTI -2021
On 23rd January 2021

Shree Satyanarayana Sahu
Chief Guest

Prof. Prakash Ch. Agarwal
Principal

Dr. Kalinga Ketaki
Programme Coordinator

"Give me blood and I will give you freedom"
-Netaji Subhas Chandra Bose

Regional Institut

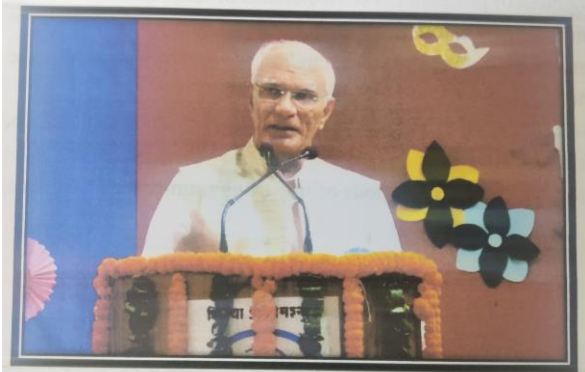
2019-20





2018-19





Prof. Ved Prakash



Prof. Anil Kumar Shukla

2. Encouragement to novel ideas



Regional Institute of Education

(National Council of Educational Research and Training)

Bhubaneswar -751022, Odisha

Implementation of NCERT Interventions at School Stage: A Journey of Research in Chilika Block, Odisha



Principal Investigator
Prof. P. C. Agarwal

Co-Principal Investigators
Prof. B. N. Panda
Prof. M.K. Satapathy
Prof. S.K. Dash
Prof. Laxmidhar Behera
Dr. Rasmirekha Sethy



Regional Institute of Education
(National Council of Education Research & Training)
Bhubaneswar, Odisha -751022

**Implementation of NCERT Interventions at School Stage: A Journey of
Research in Chilika Block, Odisha**

**Edited by : Prof. P. C. Agarwal
Prof. B. N. Panda
Prof. S. K. Dash**

**Research Team : Principal Investigator
Prof. P. C. Agarwal
Co-Principal Investigators
Prof. B. N. Panda
Prof. M.K. Satapathy
Prof. S.K. Dash
Prof. Laxmidhar Behera
Dr. Rasmirekha Sethy**

**Published by : Regional Institute of Education (NCERT)
Sachivalaya Marg, Bhubaneswar – 751022**

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First Published : 2023

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**Printed by : Omm Officemax
LIG-7, G-03, SBI Colony
Kesura, Bhubaneswar - 751002**

Acknowledgement

Elementary education is vital for children as well as for society as a whole. It laid the foundation for learning besides fostering deep interest among the children. In order to achieve the quality of learning at elementary level, Regional Institute of Education, Bhubaneswar has adopted all the elementary schools of Chilika block in Khordha district of Odisha, since 2019, to provide NCERT interventions at grass root level. Implementation of NCERT interventions at elementary school stage was taken up in Chilika block with the cooperation and support of Government of Odisha.

The team members of RIE, Bhubaneswar are grateful to the Principal Secretary, Government of Odisha for his kind permission to undertake the study in Chilika block. We are thankful to SPD, OSEPA, Odisha, Director, TE & SCERT, Collector, Khordha, DEO, Khordha, BDO, Chilika Block, Chairman, Chilika Block, PRI members, all elementary students of Chilika Block, SMC members, Parents, BEO, ABEO, CRCCs, Teachers and Head Teachers of Chilika block for their support and co-operation throughout the implementation of the programme.

We take this opportunity to thank all the teachers and students of Chilika Block for their active participation and cooperation at every stage of the study. Director, NCERT has extended all support from planning to execution of the project. We are thankful to the Director, NCERT, for his necessary guidance at every stage of the programme.

We express our gratitude to JPFs Ms. Subhashree Das, Mr. Binit Kumar Sahu & Mr. Gouri Prasanna Rath of our institute for their sincere involvement and hard-work at every stage, in the completion of this project.

Prof. P. C. Agarwal
Prof. B. N. Panda
Prof. S. K. Dash

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List of Acronyms

- BEO - Block Education Officer
- ABEO - Assistant Block Education Officer
- BRCC - Block Resource Centre Coordinator
- CRCC - Cluster Resource Centre Coordinator
- BDO - Block Development Officer
- DEO - District Education Officer
- DIET - District Institute of Education and Training
- DPC - District Project Coordinator
- KRP - Key Resource Person
- NCERT - National Council of Educational Research and Training
- NCF - National Curriculum Framework
- NEP - National Education Policy
- PRI - Panchayati Raj Institution
- PSQ - Personal Social Qualities
- PTR - Pupil Teacher Ratio
- RTE - Right of Children to Free and Compulsory Education
- SCERT - State Council of Educational Research and Training
- SMC - School Management Committee
- SPD - State Project Director
- SSA - Sarva Shiksha Abhiyan
- OSEPA - Odisha State Education Programme Authority

Executive Summary

Implementation of NCERT Interventions at Elementary School Stage: A Journey of Research from 2019 to 2022 in Chilika Block, Odisha for Enhancing Quality of Elementary Education

Rationale of the Study

The National Council of Educational Research and Training in its PAC meeting in the year 2018-19 discussed about the adoption of a block in the state where RIEs are located. Accordingly, Director, NCERT wrote a letter to Commissioner cum Secretary, School and Mass Education Department, Govt. of Odisha to suggest a rural block for adoption by RIE, Bhubaneswar to provide the academic interventions, to bring out quality change in learning levels among the learners. Bringing quality of school education in the country is the mandate of NCERT. On this basis, there was a discussion with the Director of TE and SCERT, Govt. of Odisha to finalize and select a rural block of Khordha district for academic intervention. After threadbare discussion with the authorities of Govt. of Odisha, it was decided to select the Chilika rural block of Khordha District for academic intervention. Thereafter, NCERT approved the proposal and decided to choose all the elementary schools of Chilika Block for providing NCERT interventions towards improving quality of teaching and learning processes at Elementary stage. Afterwards a joint meeting was organized with BRCC, CRCCs, BEO, ABEO, HM, BDO, DPC, SSA functionaries, community members, faculty members of RIE at Chilika Block head quarter, (Gangadharpur) on 12.10.2018. Director, NCERT, ADM, Khordha, Director SCERT were also present in the meeting. In the meeting there was a discussion about the adaptation of schools in the block and future course of action to improve capacity building of the teachers in order to help to improve quality in learners learning at elementary stage.

National Council of Educational Research and Training (NCERT), the apex body in school education in the country has always been engaged in developing various kinds of learning resources for teachers, teacher educators and learners. Since its inception, NCERT has been engaged in developing various kinds of learning resources for teachers, teacher educators and learners. Included among these are study materials (print-textual, supplementary etc.) for students, kits in science and mathematics, language, social sciences etc.; capacity-building programme for teachers and teacher educators in diverse areas, e.g. science and mathematics, environmental sciences, social sciences, languages, inclusive classroom environments, art integrated education, guidance and counseling, integration of Information and Communication Technology (ICT) in teaching-learning process.

Several need-based in-service training programmes have been organized for teachers and teacher educators to equip them with the skill-based competencies to help children in achieving their all-round development to bring educational growth of the school-going children and enhancing quality in

education. However, the above activities are undertaken by NCERT and its constituent units mostly at the macro level. The impact of these NCERT interventions for improving the quality of education, particularly in public sector, is often seen as marginal at the grass root level. In this context, Chilika Block of Khordha District (a rural block in the state of Odisha) has been undertaken for the purpose of conducting different programs and innovations since the year 2018-19. In the present study effects of various NCERT interventions have been studied in terms of its significant contributions on the holistic development of learners, including improving learning outcomes of students in different subject areas.

Before giving intervention in the Chilika Block, it was decided to have need assessment survey of the teachers/ head teachers/ CRCCs and BRCCs to find out the ground realities along with the level of learning outcomes of the learners at elementary stage. Need Assessment Interview of 237 teachers and CRCCs / BRCCs were taken and the responses were analyzed to find out the needs of the teachers of Chilka Block. Realizing to their needs, Capacity Building Programme was organized. All the 420 elementary teachers of Chilka block participated in the training programme. The training programmes covered almost all aspects of NCERT promoted interventions like- NCF guidelines, Curriculum, textbook & Inclusive education, learner-centered pedagogy for quality education, Learning Outcomes, PSQ & Well Being, ICT in Education, Pedagogy of Language, Pedagogy of EVS, Pedagogy of Social Science, Pedagogy of Science, Pedagogy of Mathematics, and use of Mathematics kits, use of science kits, School leadership for quality education, School-based assessment and Pedagogy of early childhood education etc.

Similarly in the first instance, after receiving the Competency based achievement test from Class-I to VIII from NCERT Head Quarter, translation of the tools were done from English to Odia. For conducting the baseline test an orientation programme was organized at RIE, Bhubaneswar and subsequently at Chilika block for all the teachers. A baseline competency based achievement test was also conducted from Classes I to VIII to access the level of learning before intervention. Background data of all the students, teachers and schools were collected by using Pupil questionnaire (PQ), Teacher questionnaire (TQ) and School Questionnaire (SQ).

During the mid-way of the project, Director (NCERT), Dean(R) (NCERT), Dean (C), NCERT & Head, PMD along with State Level Officials, Principals of all RIEs and other faculty members of RIE, Bhubaneswar visited Chilika Block to realize/ascertain the situation and provide on-site support. Further, faculty members of the institute also visited their respective allotted cluster(s) to provide onsite support besides collecting data from the school, teachers, community members, students etc., through observation and interviews. Further a case study report of each cluster was also prepared.

As per the 2011 census data of Chilika block, the literacy rate stands at 70%. The need assessment result of teachers highlighted that there is a need to improve the pedagogical and professional competencies of the teachers and giving more stress on activity based teaching besides putting emphasis on integration of ICT as a tool in learning.

The present study aims at integrating all these dimensions and implement those at the elementary school stage in Chilika rural revenue block of Khordha district of Odisha to assess the effects of interventions in bringing improvement in the functioning of the teacher in teaching-learning process, besides student's level of learning for their holistic development.

However, the outbreak of coronavirus pandemic has generated changes in the teaching-learning process from school education to higher education and has influenced the interaction between teachers and students in the academic session 2019-2020. As a consequence of the pandemic, schools were constrained to carrying out their activity with students in face-to-face mode. Consequently, online teaching learning process was adopted to reach with each and every elementary student to maintain continuity in teaching learning process. In order to explore the ongoing status of teaching-learning activities in schools and assess the effectiveness of online learning during pandemic, a survey was conducted.

Although online classes were conducted as per the guidelines of Govt. of Odisha, it was not seen to be very fruitful for all segments of learners in the block. As a result, students developed hard-spots in different subjects. In view of this, BEO, BRCs, CRCCs and all HMs suggested to conduct capacity building programmes for KRPs in RIE, Bhubaneswar on different hard spots of students and teachers using competency-based pedagogy. Thereafter, planning was made to organize capacity building of the teachers in order to facilitate the levels of learners learning at elementary stage, in accordance with the hard spots provided by the teachers. Capacity building programme was held at RIE, Bhubaneswar, for five days, for KRPs of the Chilika Block. Thereafter, such capacity building programme was also organized in face-to-face interaction mode, at all cluster-level hubs of Chilika Block, for all elementary teachers of the block. The training programmes covered almost all aspects of NCERT promoted interventions and identified hard spots. At the end of the academic session 2021-2022 post test was conducted. Before conducting the post-test, an orientation programme was organized at Chilika block through online mode, for all the CRCCs, who, in turn provided orientation to the teachers. A competency-based achievement post-test was conducted from Classes I to VIII to assess the learning performance of elementary students to find out the impact of intervention.

This document is the outcome of a study conducted in the Chilika Rural Block during the session 2019-2020, 2020-2021 and 2021-2022 to find out the teachers' perception and learning levels of the elementary students. The details activities undertaken during the research journey are given below:

**Table-1.1: Year-wise List of activities undertaken in the Block
Year 2019-20 (Pre Intervention Phase)**

Sl. No	<i>Activities</i>
1.	Initiation of the Project: Meeting with Govt of Odisha and NCERT/ RIE, Bhubaneswar at Chilika Block to improve quality of learning in the adopted Chilika Block elementary schools.
2.	Planning meeting with key stakeholders of school education i.e. BEO, ABEO, BRCs, CRCCs, HMs, BDO, DPC & SSA functionaries and SMC members with RIE faculty members.
3.	Collection of background data of Chilika Block.
4.	Baseline achievement survey of classes I-VIII in all the schools of all clusters of the Chilika block
5.	Preparation of baseline achievement survey report depicting the learning levels of students and different stakeholders(teachers/parents/community members) perceptions/ expectation about training and existing facilities in the cluster/schools

Year 2020-21 (Intervention Phase)

Sl. No.	<i>Activities</i>
1..	Five-day online capacity building programme of elementary School teachers of Chilika block, on various hard-spots.
2.	On-Site support through Case studies of clusters by faculty members of RIE, Bhubaneswar.
3.	Organizing Guidance and Counselling exhibition, Multi-cultural placement, Internship and Working with Community programme in Chilika Block.
4.	Report on extensive survey of different stakeholders about online teaching learning process during pandemic situation.

Year 2021-2022 (Post Intervention Phase)

Sl. No	<i>Activities</i>
1.	Four-day Capacity building programme of KRPs of Chilika Block.
2.	Three-day Capacity building programme of elementary School teachers of Chilika block with focus on specific hardspots in Science, Social Sciences, Mathematics and Language, by using the recommendations of NEP-2020.
3.	Intensive survey about the teaching and learning process and other related activities during Pandemic situation by investigators.
4.	Post-test of all elementary students of Chilika block and preparing comparative report



EDUCATIONAL THEME

PARK

Activity-1

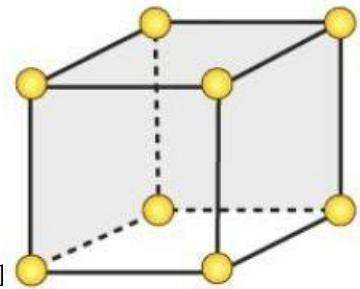
CRYSTAL STRUCTURE

Most solids are made of crystals. The three-dimensional arrangement of atoms, molecules or ions inside a crystal is known as crystal lattice. A unit cell, is the building block of a crystal lattice, the smallest repeating units of the crystal lattice.

There are three types of unit cell:

- (a) **Primitive or Simple Cubic Unit cell:** The simplest repeating unit in SCC (Simple Cubic Unit Cell) is shown in Figure. Each corner of the unit cell is defined by a lattice point at which an atom, ion or molecule can be found in the crystal. Every atom at the corner is shared among 8 adjacent unit cells. It is an open structure.

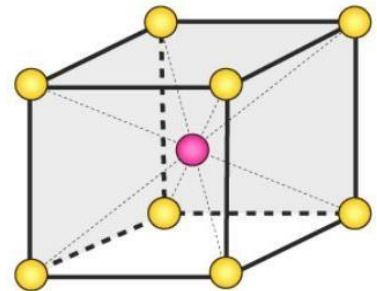
There are 8 atoms at the corners. The total number of atoms in one unit cell is 1. An example of SCC unit cell is Polonium.



- (b) **Body-Centred cubic unit cell:** The simplest repeating unit in BCC (Body-centred cubic unit cell) is shown in Figure. In this structure there are eight identical particles on the eight corners of the unit cell and one at the centre of the body of the unit cell. It is an open structure.

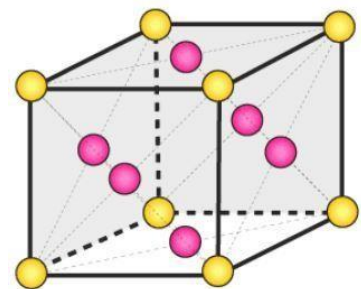
The total number of atoms in one unit cell is: $8 \times 1/8 + 1 = 2$ atom.

An example of BCC unit cell is Iron, Chromium and Tungsten.



- (c) **Face-Centred Cubic Unit Cell:** The simplest repeating unit in FCC (Face-centred Cubic Unit Cell) is shown in Figure. It is a closest-packed structure. It contains atoms at all the corners of the crystal lattice and at the centre of all the faces of the cube. The atom present at the face-centred is shared between 2 adjacent unit cells and only $1/2$ of each atom belongs to a cell.

The total number of atoms in one unit cell: $8 \times 1/8 + 6 \times 1/2 = 1 + 3 = 4$ atom. An example of FCC unit cell is Copper, Gold and Aluminum.



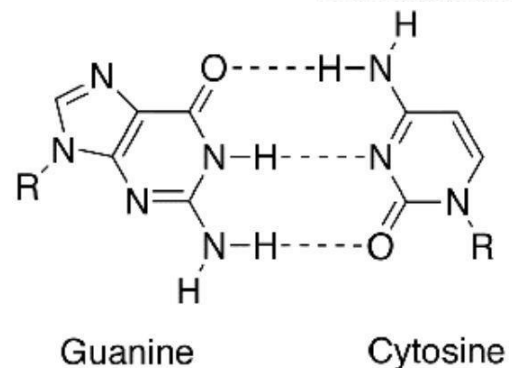
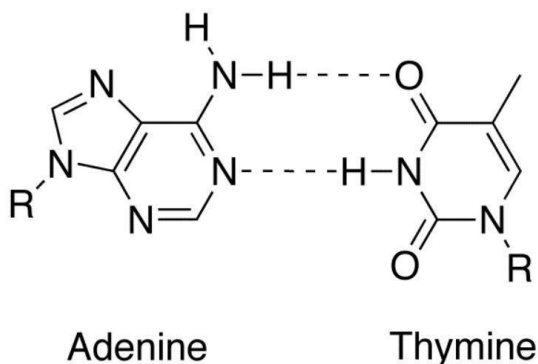
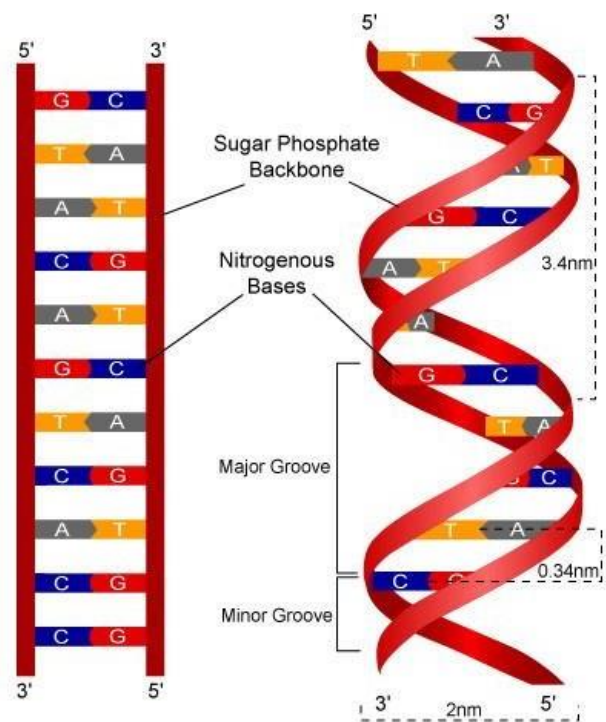
Activity-2

DNA

Nucleic acids are the organic material present in all organism in the form of DNA or RNA. These nucleic acids are formed by the combination of nitrogenous bases, sugar molecules and the phosphate group that are linked by different bond in a series of sequences. DNA, deoxyribonucleic acid, organic chemical of complex molecular structure that is found in cells and viruses.

DNA is made up of molecules called nucleotides. Each nucleotides contains a phosphate group, a sugar group and anitrogen base. The four types of nitrogen bases are Adenine (A), thymine (T), guanine (G) and cytosine (C).

Nucleotides are attached together to form two long strands that spiral to create a structure called a double helix. If you consider a double helix as a ladder, the phosphate and sugar molecule would be the sides, while the bases would be the rungs.



Activity-3

EVOLUTION OF HUMAN BEING

Human Evolution is the lengthy process of change by which people originated from ape- like ancestors. Scientific evidence shows that the physical and behavioral traits shared by all people originated from apelike ancestors and evolved over a period of approximate sixmillion years.

According to the Scientist Charles Darwin (1809-1882), evolution depends on a process called natural selection. The theory emphasized the points of Natural selection, Variation,Struggle to exist, Survival of the fittest.

Stages in Human Evolution

(a) Dryopithecus

Historical Epoch – 2,50,00,000 years ago

Size and Weight – About 4 feet long and 25 Pounds

Characteristics – Small body, Small Head, Strong Teeth, Front coming Jaw, Lowdeveloped Eyebrow

(b) Ramapithecus

Historical Epoch – 1,00,00,000 years ago

Size and Weight – About 5 feet long and 50-70 Pounds
Characteristics – Upright Posture, Use hands for food and defense

(c) Australopithecus

Historical Epoch – 40,00,00 years ago

Size and Weight – About 4 feet long and 60-90 Pounds
Characteristics – Use Stones as Weapons to hunt small animals

(d) Homohabilis

Historical Epoch – 20,00,00 years ago

Size and Weight – About 5 feet long and 80-100 Pounds
Characteristics – May be able to speak, first to make and use tool

(e) Homoerectus

Historical Epoch – 15,00,00 years ago

Size and Weight – About 4.5-6 feet long and 90-140 Pounds

Characteristics – Upright, Long Face, Large Brain, Prominent Speech, Make and Usetools, Made fire, Carnivorous

(f) Homosapiens

Historical Epoch – 1,50,00 years ago

Size and Weight – About 5-5.5 feet long and 130-175 Pounds

Characteristics – Larger brain, head and jaw, Powerful and muscular hunter, Cavedwell

Activity-4

MASS & INERTIA

Newton's first law of motion states that "An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force." The tendency to resist change in their state of motion is described as inertia.

All objects resist changes in their state of motion. All objects have this tendency- they have inertia. But do some objects have more of a tendency to resist changes other than others?

Absolutely Yes!!

The tendency of an object to resist changes in its state of motion varies with mass. Mass is that quantity that is solely dependent upon the inertia of an object. A more object has a greater tendency to resist changes in its state of motion.

EXAMPLE:

A truck is transporting a huge stone. While the truck is in motion, the stone is also in motion. A deer suddenly jumps into the road and the driver slams the break. The truck stops but the stone moves forward because the stone, which is in motion, fights to stay in motion.



Activity-5

PYTHAGORAS THEOREM

Pythagoras theorem states that “In a right-angled triangle, the square of the hypotenuse side is equal to the sum of squares of the other two sides”.

The sides of this triangle have been named as Perp. (Perpendicular), Base and Hypotenuse. The hypotenuse is the longest side and it's always opposite to the right angle.

$$c^2 = a^2 + b^2$$

PROOF:

We know, $\triangle ADB \sim \triangle ABC$

Therefore, Corresponding sides of similar triangles

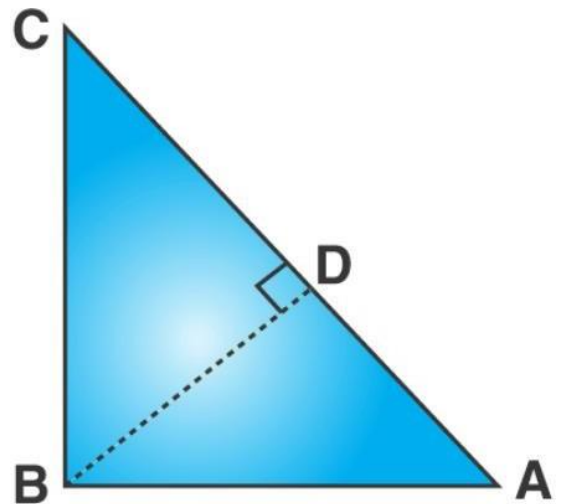
$$\frac{AD}{AB} = \frac{AB}{AC}$$

$AB^2 = AD \times AC$ Also,

$\triangle BDC \sim \triangle ABC$

Therefore, Corresponding sides of similar triangles

$$\frac{CD}{BC} = \frac{BC}{AC}$$



$$BC^2 = CD \times AC$$

Adding

Therefore, Corresponding sides of similar triangles

$$\frac{AD}{AB} = \frac{AB}{AC}$$

$$AB^2 + BC^2 = AD \times AC + CD \times AC$$

$$AB^2 + BC^2 = AC(AD + CD)$$

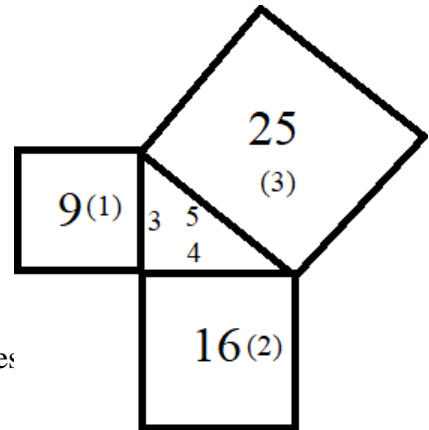
$$AD + CD = AC$$

$$AB^2 + BC^2 = AC^2$$

We can determine whether the triangle shown is a right triangle.

$$\text{Area of square (1)} + \text{Area of square (2)} = \text{Area of square (3)}$$

If it is true, then the triangle formed by the sides of these squares will be a right angle triangle.



Activity-6

SOLAR SYSTEM

The Solar System is made up of the sun and everything that orbits around it, including planets, moons, asteroids, comets and meteoroids. The Sun is by far the largest object in our solar system, containing 99.8% of the solar system's mass. It sheds most of the heat and light that makes life possible on Earth and possibly elsewhere. Planets orbit the sun in oval-shaped paths called ellipses, with the sun slightly off-center of each ellipse.

Inner solar system

The four inner planets — Mercury, Venus, Earth and Mars — are made up mostly of iron and rock. They are known as terrestrial or earth-like planets because of their similar size and composition. Earth has one natural satellite — the moon — and Mars has two moons — Deimos and Phobos.

Between Mars and Jupiter lies the Asteroid Belt. Asteroids are minor planets, and scientists estimate there are more than 750,000 of them with diameters larger than three-fifths of a mile (1 km) and millions of smaller asteroids.

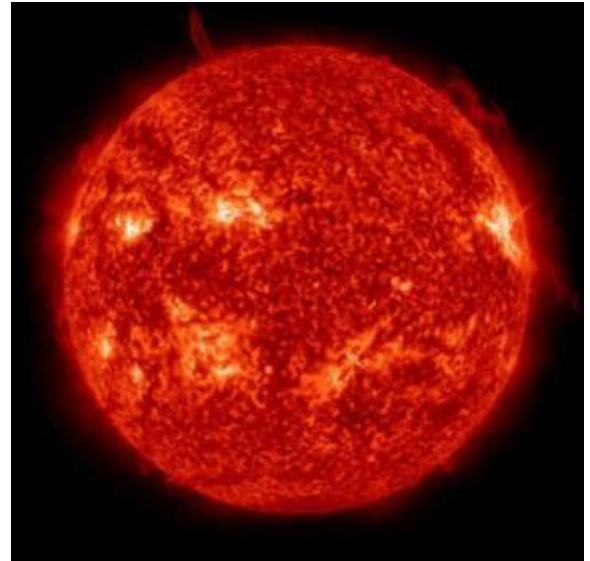
Outer solar system

The outer planets — Jupiter, Saturn, Uranus and Neptune — are giant worlds with thick outer layers of gas. Between these planets, they have dozens of moons with a variety of compositions, ranging from rocky to icy to even volcanic. Nearly all the planets' mass is made up of hydrogen and helium, giving them compositions like that of the sun.

SOME FACT ABOUT MEMBERS OF SOLAR FAMILY

1. SUN

- Located in the center of Solar System
- Diameter around 1.39 million Km
- 109 times greater than diameter of our Earth
- So massive that it has 99.86% mass of the entire solar system.
- Sun completes its one orbit around the Milky way in around 230 million years.
- At equator, sun spins once every 25 days, while at poles, it rotates once every 35 days.
- Sun's true color is White.



2. MERCURY

- Smallest and Closet planet to the Sun – 57 million Km.
- Densest planet in the solar system after Earth.
- It has diameter of 4.879 Km.
- During the day, mercury average surface temperature reach up to 430⁰ C but at night the average temperature reach up to -180⁰C.
- One day on mercury is 59 Earth days.
- It circles the sun once every 88 Earth days.
- First spacecraft to explore Mercury was NASA's Mariner 10.



3. VENUS

- Second planet from the Sun, Distance
 - 108 million Km.
- Hottest planet of the Solar system, 62degree hotter than Mercury. Averagetemperature during day is 465°C
- It has diameter of 12.104 Km.
- One day on Venus is 243 Earth days and one year is equals to 225 Earth days.
- Due to its brightness it is also known as morning & Evening Star.
- First spacecraft to explore Venus wasMariner 2



4. EARTH

- Third planet from the Sun, Distance
 - 149 million Km.
- Earth rotates around sun is 365.25days.
- It has a diameter of 6.371 km.
- One day on Earth is 23.9 hours.
- Moon is the natural satellite of Earth.
- Light reach us from the sun in about8 minutes.
- First image of earth taken from spaceis happened on 24th October 1946.



5. MARS

- Mars is the fourth planet from the sun, Distance – 227.9 million Km.
- Two times smaller than Earth, Diameter -6.779 Km
- Two natural satellites – Phobos & Deimos.
- Average temperature on Mars is -60°C.
- A day on Mars is little longer than a day on Earth – 24.6 hour.
- A year on Mars is almost twice as long as a year on Earth.
- The first spacecraft to visit Mars was Mariner 4.

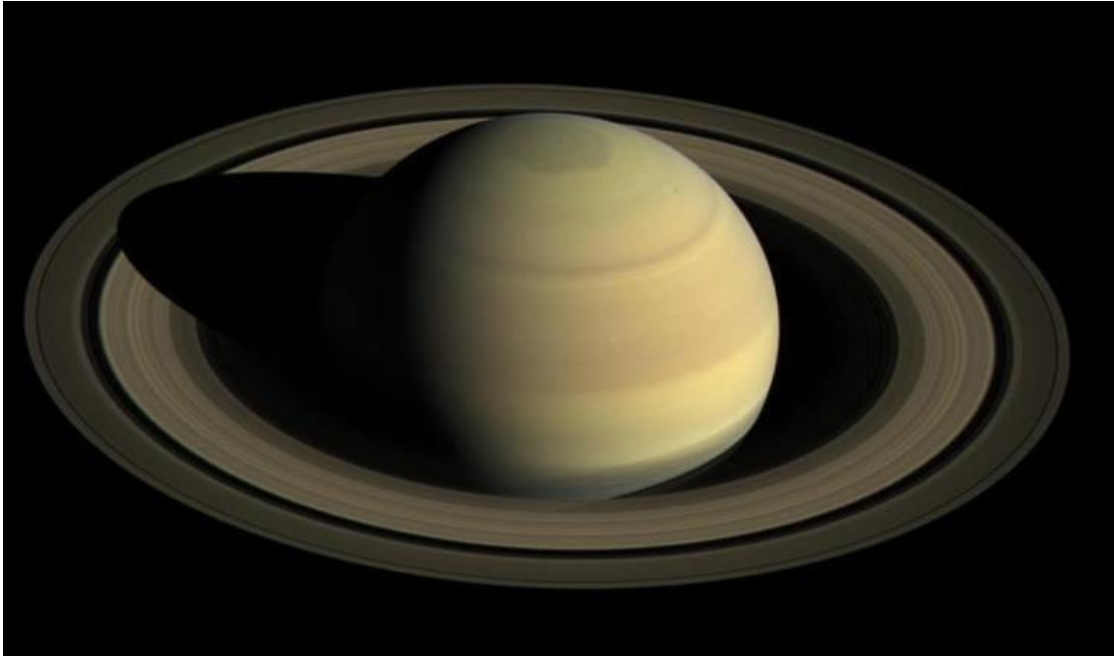


6. JUPITER

- Jupiter is fifth planet from the sun, Distance – 778.5 million Km.
- Total 79 confirmed natural moon.
- Largest planet in the Solar system with diameter at equator 142.984 km and at poles 133.708 km.
- A day on Jupiter goes very fast, only last for 10 hours.
- It takes 11.8 Earth days to circle the sun once.



7. SATURN



- Sixth planet from the sun, Distance – 1.434 billion Km.
- Second Largest planet having diameter 120.536 Km.
- 82 confirmed natural satellite (moon).
- Temperature on average in upper atmosphere is -175°C .
- Named as “Ringed planet” – 30 ring system around it.
- A day goes very fast here – only 10.7 hours.
- It takes 29 Earth years to orbit the sun once.
- Some spacecraft that visited Saturn are Pioneer 11, Cassini and Voyager 1 and 2.
- Saturn is lighter than water, So that if you place Saturn in a ocean, it would float.

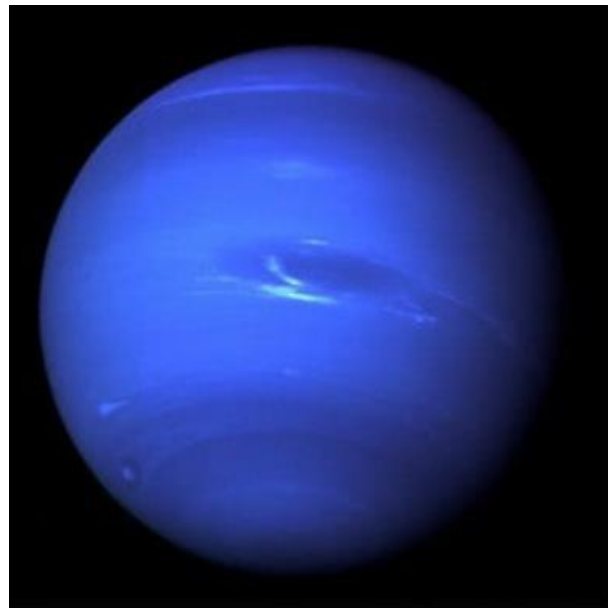
8. URANUS

- Seventh planet from the sun. Distance – 2.871 billion Km.
- Third largest planet of solar system having diameter 51.118 Km.
- It rotates in opposite direction than most planet.
- Average temperature is around -224°C
- It also has rings (13) but difficult to observe.
- Uranus has 27 moons orbiting it.
- One day lasts 17 hours while one year of Uranus is 84 Earth years.
- It only once visited by Voyager 2.



9. NEPTUNE

- It is the farthest planet in solar system, distance -4.495 billion Km.
- It has a diameter of 49.244 Km.
- Wind speed on Neptune is the fastest recorded in the solar system.
- Average surface temperature is -214°C .
- It has 14 moons.
- A day on Neptune lasts for 16 hours while a year is equivalent to 165 Earth years.
- It only once visited by Voyager 2.



Activity-7

VORTEX

A vortex is a physical phenomenon that occurs when a gas or a liquid move in circles. At the center is a vortex line that the matter swirls around. They are formed when there is a difference in the velocity of what surrounds the line. Hurricanes, tornadoes and air moving over a plane wing are example of vortices.

In short, A vortex is fluid that revolves around the axis line. This fluid might be curved or straight. Vortices form from stirred fluids: they might be observed in smoke rings, whirlpools, in the wake of a boat or the winds around a tornado or dust devil.

EXAMPLE:



Activity-8

WORLD GLOBE TIME

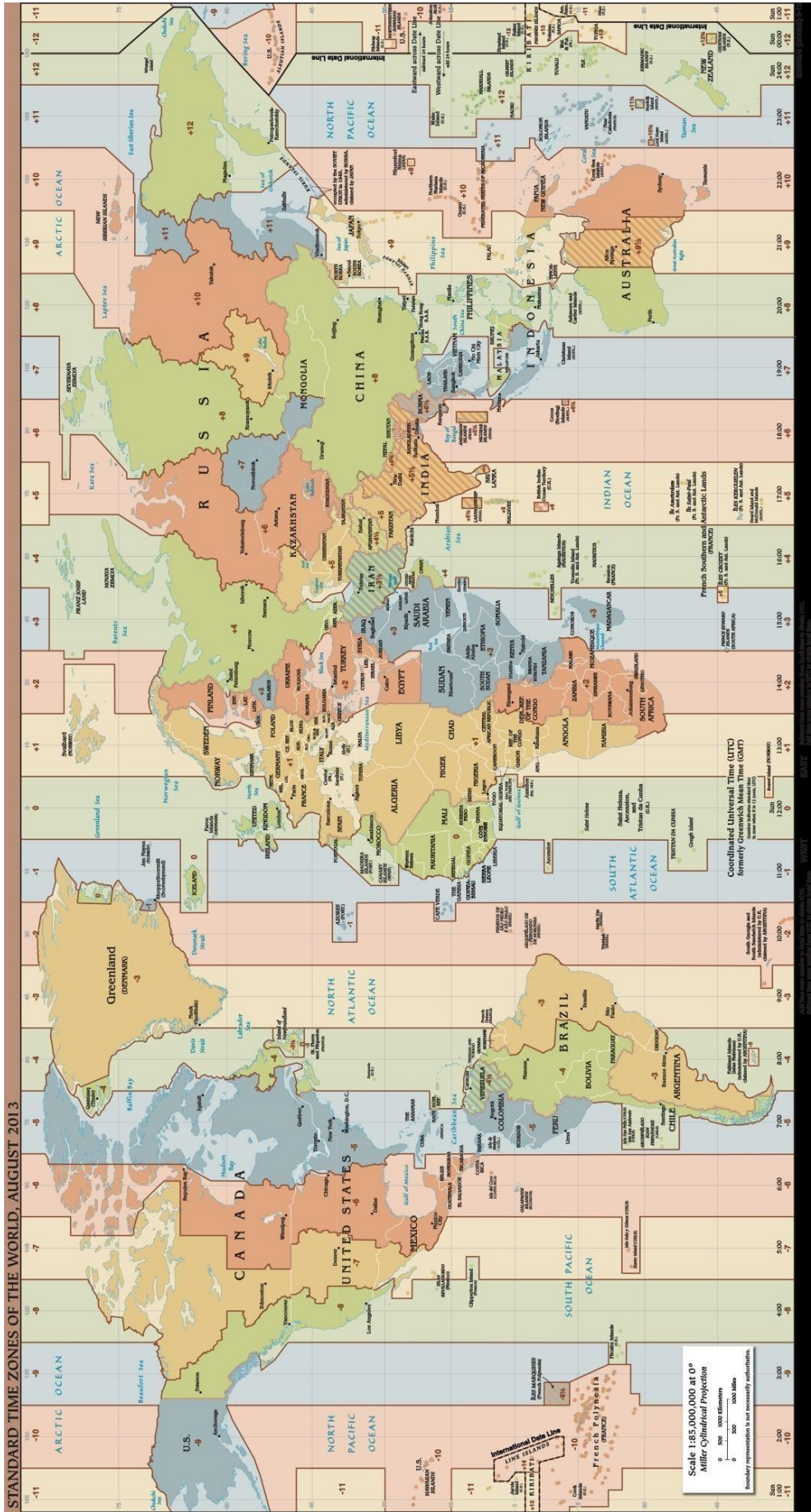
Time zones give specific area on the Earth a time of day that is earlier or later than the neighboring time zones. This is because when it is daytime on one side of the earth, it is nighttime on the other side. A time zone is a region where the same standard time is used. The local time within a time zone is defined by its offset from Coordinated Universal time (UTC), the world's time standard.

Time zone are a geographical world globe division of 15° each, starting at Greenwich, in England, created to help people know what time is it now in another part of the world. The earth has been divided into 24 time zones of one hour each. Each zone thus covers 15° of longitude. GMT began in 1675.

HOW TO CALCULATE?

The earth rotates 360° in about 24 hours, which means 15° an hour or 1° in four minutes. Thus, when it is noon at Greenwich, the time at 15° east of Greenwich will be $15 \times 4 = 60$ minutes, i.e., 1 hour ahead of Greenwich Time, but at 15° west of Greenwich, the time will be behind Greenwich Time by one hour.





3. Official approval and support for innovative try-outs



Regional Institute of Education
(National Council of Educational Research and Training)
Bhubaneswar -751022, Odisha

परिषद् की कार्यक्रम सलाहकार समिति की 58वीं
 बैठक का कार्यवृत्त
*Minutes of the 58th Meeting of the Programme Advisory
 Committee (PAC) of NCERT*

27 एवं 28 जुलाई 2021
 27 to 28 July 2021



योजना एवं अनुवीक्षण प्रभाग
 राष्ट्रीय शैक्षिक अनुसंधान और प्रबिक्षण परिषद्
Planning and Monitoring Division (PMD)
National Council of Educational Research and Training
(NCERT)

23.26	Diploma Course in Guidance and Counseling (through Distance/Online and Face to Face) • Approved
23.27	Organization of 'Expression Series' to Commemorate the Life and Works of the Great Indian Thinkers and other Important Events • Approved
23.28	Expression Series on Eminent Personalities and Days of Significance • Approved
23.29	Organisation of Principals' Conference for Internship in Teaching Programme • Approved
23.30	RIE BHOPAL JOURNAL OF EDUCATION-Bi-annual Journal • Approved
23.31	National Conference on "Rethinking Science Education in the Context of National Education Policy 2020" • Not Approved
23.32	National Conference on "Folk Literature in Indian Languages: Today & Tomorrow" • Approved

REGIONAL INSTITUTE OF EDUCATION, BHUBANESWAR

PAC Code	Title of the Programme
24.01	Implementation of NCERT Interventions at School Stage: A Block Level Research Project • Approved
24.02	Spatial Mapping of Green Skills and Indigenous Practices in selected Districts of Odisha- A Study • Approved
24.03	Twenty First Century Employability Skills of Students at Secondary Level in Odisha: An Analysis • Approved
24.04	Role of ICT Laboratory in Improving Quality of Teaching Learning at Secondary Level: A Study for Andaman & Nicobar Islands • Not Approved
24.05	Assessment of Materials Developed by SCERT Odisha on Foundational Literacy and Numeracy • Approved with the following suggestions • Need to be done in collaboration with DEE • FLN Framework NIPUN to be referred
24.06	Functioning of Library in Secondary Schools of Jharkhand- A Study • Not Approved

**No. F. 27-4/2020-21/Prog/57th PAC/
Planning and Monitoring Division
N.C.E.R.T**

Date: 22nd May 2020

**Sub: Minutes of the 57th Meeting of the Programme Advisory
Committee (PAC) of NCERT**

Kindly find enclosed herewith the minutes of the 57th Meeting of the Programme Advisory Committee (PAC) of NCERT held on 23rd, 24th and 27th April 2020 and 12th May 2020 in Virtual Mode.

The minutes have been duly approved by the Chairperson, PAC (Director, NCERT).

(Ashita Raveendran)
I/c Head, PMD

All Heads of Instt./Deptt./Div./Cell

REGIONAL INSTITUTE OF EDUCATION (RIE), BHUBANESWAR

PAC Code	Title of the Programme
17.01	Impact of In-service Teacher Training on Classroom Practices in Mathematics at Higher Secondary Stage of Bihar <ul style="list-style-type: none"> • Approved with following suggestions • Data collection will be done by SCERT, Bihar by using the tools developed by the Institute. • Analysis of the data and preparation of report along with its dissemination will be done by the institute.
17.02	Low Attendance of Students in Government Elementary Schools of Jharkhand: A Study <ul style="list-style-type: none"> • Approved with following suggestions • Data collection will be done by JCERT, Jharkhand by using the tools developed by the Institute. • Analysis of the data and preparation of report along with its dissemination will be done by the institute. • The gender-wise study will also be conducted in the programme.
17.03	Impact of In-service Teacher Training in Mathematics on Classroom Practices at Secondary Stage of Andaman and Nicobar Islands <ul style="list-style-type: none"> • Approved with following suggestions • Data collection will be done by SIE, Port Blair, A&N Islands by using the tools developed by the Institute. • Analysis of the data and preparation of report along with its dissemination will be done by the institute.
17.04	Implementation of NCERT Interventions at school stage: A Block Level Research Project <ul style="list-style-type: none"> • Approved with following suggestion • Intervention Strategies will be planned according to the outcome of the baseline achievements
17.05	Creativity and Problem Solving Skills of Tribal learners in Elementary School of A&N Islands <ul style="list-style-type: none"> • Approved with following suggestion • The programme to be completed within six months without visiting to Port Blair, A&N Islands.
17.06	Development of learning resource centre for in-service and pre-service teacher education programme <ul style="list-style-type: none"> • Approved with following suggestion • Educational Theme Park and Herbal Garden will also be developed in the programme
17.07	Development of Question Bank in Science, Social science, Language, Mathematics at Secondary Level <ul style="list-style-type: none"> • Approved • Prog. 17.07 i, ii, iii Merged • The programme will be conducted involving ESD & Examination Reforms cell, NCERT, New Delhi • The items will be prepared based on competencies following the learning outcomes of NCERT irrespective of the Textbooks of the States • The items will be developed in English first then it will be translated in Bengali, Odiya and Hindi


 समन्वयक
 Coordinator
 आंतरिक गुणवत्ता आश्वासन प्रकोष्ठ
 Internal Quality Assurance Cell
 क्षेत्रीय शिक्षा संस्थान, भुवनेश्वर
 Regional Institute of Education, Bhubaneswar



REGIONAL INSTITUTE OF EDUCATION, BHUBANESWAR
(National Council of Educational Research & Training)
Alternate Guidelines for Internship in Teaching-2020

Internship in Teaching Programme for B.A. B.Ed., B.Sc. B.Ed., and 2 Year B.Ed. will be held from 21st September to 10th December 2020. Alternate guideline is prepared taking into consideration the Covid-19 situation.

1. Pre-Internship Conference will be held virtually from 21st September to 30th September 2020. Programme schedule for the Pre-Internship conference is attached herewith.
2. Interaction programme will be held from dt. 1st October to 30th November 2020.
3. Post-Internship Conference will be held from 1st December to 10th December 2020.

Activities for Internship Programme

Internship in teaching programme will start from 1st October to 30th November 2020. During this period students are required to complete the following activities.

Activities

1. Lesson plan preparation.

Lesson plan consists of statement of objectives, list of contents, learning resources, teacher initiatives and strategies and process of assessing learning. It is simply a road map. Each teacher is different, once he/she understands the basic elements of lesson planning; he/she can modify the process to reflect on whatever is comfortable.

- Students are required to develop e-Content in 5+5 lesson plans for method 1 and method 2 subjects. They should conduct the Internship in a school where they were studying earlier / any nearby school / JNV / KV / Govt. or Private Schools / Adharsh Vidyalaya / Aided School and record the visual along with audio and these need to be submitted to the coordinators.
- Along with this they are required to submit lesson plans of 30+30 lessons in two method subjects and to be transacted either to the students in the schools selected or in the peer group. The lesson plans are required to be submitted to their respective coordinators.
- Lesson plan records will be assessed at the institute after completion of the Internship.

2. Unit Plan

- A student teacher has to prepare two unit plans in each pedagogy. Unit plans consist of concepts and learning goals that are taught over a period and are woven together, often across subject areas. A unit plan lasts two or three weeks (or longer) and includes several standards, skills, and desired outcomes for interconnected learning. A unit plan overarches all daily lesson plans with connections among key topics, concepts, skills, and desired outcomes. All the following elements should be considered when developing a unit plan: objectives, Main topic or topics, that unite lessons within the unit, academic goals and desired outcomes, Cross-curricular connections, Methods to make the learning relevant throughout the unit, an understanding of students' current knowledge, strategies, assessments for before, during, and after lessons and the overall unit. Students are required to submit unit plans as per the format provided by the Institute.

3. School Profile

Students are required to collect information from the school where they were studying earlier / any nearby school / JNV / KV / Govt. or Private Schools / Adharsh Vidyalaya / Aided School. A student-teacher has to collect information on day-to-day school activities and prepare a comprehensive report highlighting working of the library, other curricular activities, games and sports, functioning of laboratory, school morning assembly. The report needs to focus on critical reflection of the pupil teacher on school site and activities of different type of schools i.e. rural/urban tribal, residential etc.

4. Action Research

Students are required to prepare two proposals on Action Research. The student teacher has to imagine the problem/issues in the classroom and develop interventions to solve the problem. The small scale research may cover areas related to the learner and learning like curricular and other curricular areas, processes, strategies, assessment, disciplinary issues and others.

The report covering the problem, objectives, hypotheses, interventions, strategies and reflection will be assessed at the institute level.

5. **Achievement Tests**

Student teachers have to develop 50 assessment test items on two subjects taught out of which 10 questions should be MCQ type. The format of reporting achievement test is provided. It carries (10+10) marks. The candidate has to submit two separate report related to both subjects tagged together.

6. **Teaching – Learning Resource**

The student teacher will be preparing/ collecting and using a large number of learning resources during their placement in the school. It is required that appropriate and suitable learning resources must be used for the purpose. The details of the preparation and use of learning resources are to be recorded as per the format provided. Either the student teachers as per instructions have to exhibit two innovative learning resources at the cooperating JNV or in the institute. Students are required to prepare two teaching learning resource in two method subjects.

7. **Participation in School Activities**

- Due to Covid situation, it is not possible for the students to participate in school activities. Hence students are required to prepare a write up on Role & Responsibilities of Teachers in the context of NEP – 2020.

8. **Peer observation**

- The student teachers are to observe 10 lessons, 5 in each Pedagogy subject taught by fellow student teachers. An observation schedule booklet is developed and supplied to them. The important features of teaching are mentioned overleaf of the scheduled based on whom critical observations are to be made and record in the class itself. As far as possible, varieties of lessons may be observed virtually. These are to be submitted in two separate bunches for evaluation in the institute.

9. **Overall Assessment by School**

This will be done by the school head on different dimensions i.e. Personal characteristics in terms of punctuality, initiatives, self-confidence, capacity to manage class, relationship with school staff, cooperativeness etc.; Participation in co scholastic activities such as games and sports, cultural activities, science/literary exhibition, participation in special programmes, community service etc.; School work, arrangement of classes, laboratory, library work etc. and Teaching: Preparation of lesson, classroom teaching, correction of students work, testing and reporting, originality and novelty in teaching. However due to Covid situation, it is not possible for students to take part in these activities. However, on the basis of their online teaching, students are required to collect such a report from school heads.

10. **Reflective Diary**

Used as part of the activities of pre-service teaching practice, it is a tool for descriptive, reflective and/or critical recording of professional experiences lived by the teacher trainee in teacher training situations. The reflective diary helps organize the activity of guided analysis of pedagogical practice experiences aimed at: identifying students' own needs, interests, training motivation, the degree of mastery of past acquisitions, shaping an accurate image on their effectiveness in practical teaching situations. The diary is to be continuously recorded along with reflections.

Post – Conference

To be conducted from 1st December to 10th December.

It is not sufficient to have an experience in order to learn. Without reflecting on this experience, it may quickly be forgotten, or its learning potential may be lost. The student teacher has to present the reflective report during the post conference.

Subh
24.09.2020

Anoop Kumar
24.9.2020
Dean (I)

Prof. P. C. Agarwal
Principal

To
The Joint Commissioner
Academic
Kendriya Vidyalaya Sangathan
18, Institutional Area
Shaheed Jeet Singh Marg
New Delhi - 110 016(India)

Subject: School Internship of Student Teachers (Integrated B.A. /B.Sc. B.Ed. and B.Ed. student teachers in KVs of eastern region of the country)

Sir,


Thank you for your support during earlier years for smooth conduct of School Internship of our student teachers in different KVs of eastern region of the country. During the session 2020-21 students from B.Sc. B.Ed., B.A. B.Ed. and 2 year B.Ed. programmes of Regional Institute of Education, Bhubaneswar missed the opportunity of having experience of the prestigious KVs as interns due to the Pandemic. In view of the Covid situation and due to closure of schools, it is not possible to send our students to the KVs now. But our students may be given an opportunity to be engaged in online classes held in these schools and to interact with teachers and heads of schools for their valuable guidance. Our Internship in Teaching Programme is scheduled to be held from the 1st week of October to 30th November 2020. Students will follow the guidelines spelt out by the office of the commissioner within the frame work of KVs.

Some of the schools located in the states of Bihar, West Bengal, Jharkhand and Odisha may please be asked to extend all possible support for this programme and the Principals of KVs in their Jurisdiction may please be communicated to extend necessary support and help to our student teachers. Our respective coordinators shall be writing soon to the concerned Principals separately and workout the details.

Thanking you,

With regards

Yours faithfully,


24-9-2020
(P. C. Agarwal)

9c

4. Material and procedural supports



Regional Institute of Education
(National Council of Educational Research and Training)
Bhubaneswar -751022, Odisha

17.04 (2019-20)

Other Bank A/c

REGIONAL INSTITUTE OF EDUCATION : BHUBANESWAR

Title: Implementation of NCERT Interventions at School Stage:
A Block Level Research Project

PAC - 17.04

Venue: J. C. Girls High School Held from 09.01.2020 to 13.01.2020

Prog. Coordinator: Prof. P.C.Agarwal, Prof. M. K. Satapathy,
Prof. B.N. Panda, Prof. S. K. Dash

S.No.	Name of the ERPs/Participants	TA/DA self	Hon	Total
1	Biswo Bhusan Das	143 ✓	2000 ✓	2143
2	Banshidhar Behera	209 ✓	2000 ✓	2209
3	Gunamani Behera	31 ✓	2000 ✓	2031
	Total	383	6000	6383 ✓

Rupees Six Thousand Three Hundred Eighty Three Only

[Signature]
17/01/2020
Accounts Officer
[Signature]
17/1/20

17.02 (2018-19)

REGIONAL INSTITUTE OF EDUCATION : BHUBANESWAR

Title: Impact of Smart Classroom on Improving Teaching Learning
Process at Secondary Level in West Bengal (PAC-17.03)

Venue: RIE, Bhubaneswar Held from 28.08.2018 to 30.08.2018

Prog. Coordinator: Dr. R.K. Mohalik, Asst. Prof.

S.No.	Name of the ERPs	TA/CA/DA	Hon	Total
1	Dr. Sudeshna Lahiri	10836	6000	16836
2	Dr. Sudarshan Mishra	456	2000	2456
3	Dr. Rabi Priya Devi	825	6000	6825
4	Dr. Panchanan Das	378	6000	6378
5	Prof. Gouranga Nanda	307	6000	6307
Total		12802	26000	38802

Rupees Thirty Eight Thousand Eight Hundred Two Only

Accounts Officer

[Signature]
24.9.18
o/c

17.02 (2019-20)

REGIONAL INSTITUTE OF EDUCATION : BHUBANESWAR

Title: Reorganization and Merger of Schools at Elementary Level in Jharkhand in the context of the RTE Act 2009: A Study

PAC (17.02)

Venue: RIE, Bhubaneswar Held from 08.08.2019 to 09.08.2019

Prog. Coordinator: Dr. Ramakant Mohalik, Prof. and Dr. Rashmirekha Sethy, Asso. Prof.

S.No.	Name of the ERPs.	TA/CA/DA	Hon	Total
1	Dr. R. P. Devi	1361	4000	5361
2	Mr. Pramatesh Das	126	2000	2126
3	Dr. Purushottam Sahu	275	4000	4275
4	Dr. J. S. Padhi	134	4000	4134
5	Dr. Panchanan Das	252	4000	4252
Total		2148	18000	20148

Rupees Twenty Thousand One Hundred Forty Eight Only

R. Sethy
20/08/2019
Accounts Officer
22
19-8-19
ole

17.01 (2017-18)

Other Bank A/C

REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Title: A Study of Pedagogic Processes in Science at Government
Secondary Schools of Odisha.

(PAC Code No.17.01)

Venue: RIE, Bhubaneswar Held From 21.09.17 to 22.09.17

Programme Coordinator: Dr(Mrs.)Dhanya Krishna, Asst Prof

Sl.No.	Name of the Participants/ERPs	TA/CA/DA	Hon.	Total
1	Dr. Mohit Mohan Mohanty	690	4000	4690
	Total	690	4000	4690

(RUPEES FOUR THOUSAND SIX HUNDRED NINETY) ONLY.

[Signature]
22/09/2017

ACCOUNTS OFFICER

[Signature]
22/9/17

SBI A/C

REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Title: A Study of Pedagogic Processes in Science at Government
Secondary Schools of Odisha.

(PAC Code No.17.01)

Venue: RIE, Bhubaneswar Held From 21.09.17 to 22.09.17

Programme Coordinator: Dr(Mrs.)Dhanya Krishna, Asst Prof

Sl.No.	Name of the Participants/ERPs	TA/CA/DA	Hon.	Total
1	Dr. J.S. Padhi	134	4000	4134
2	Dr. Preetilata Jena	252	4000	4252
Total		386	8000	8386

(RUPEES EIGHT THOUSAND THREE HUNDRED EIGHTY SIX) ONLY.


22/09/2017
ACCOUNTS OFFICER

OTC
82
22/9/17

17.07 (2017-18)

SBA A/C

REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Title: A Study on Secondary School Mathematics Class-room of Bhubaneswar
(PAC-17.07)

Venue: RIE, Bhubaneswar held on 03.10.17 to 05.10.17

Programme Coordinator: Dr.S. Kapoor and Dr.(Mrs.) D. Krishnan

Sl.No.	Name of the Participants/ERPs	TA/CA/DA	Hon.	Total
1	Chiranjibi Mahapatra	346	4000	4346
2	Tapas Kumar Nayak	369	4000	4369
3	Dr. Panchanan Das	378	6000	6378
Total		1093	14000	15093

(RUPEES FIFTEEN THOUSAND NINETY THREE) ONLY.

o/c ACCOUNTS OFFICER
23/11/17
o/c 21/11/17

Other Bank A/c
REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Title: A Study on Secondary School Mathematics Class-room of Bhubaneswar
(PAC-17.07)

Venue: RIE, Bhubaneswar held on 03.10.17 to 05.10.17

Programme Coordinator: Dr.S. Kapoor and Dr.(Mrs.) D. Krishnan

Sl.No.	Name of the Participants/ERPs	TA/CA/DA	Hon.	Total
1	Mukesh Kumar	2863	6000	8863
2	Dr.M.M. Mohanty	825	6000	6825
Total		3688	12000	15688

(RUPEES FIFTEEN THOUSAND SIX HUNDRED EIGHTY EIGHT) ONLY.

WA
[Signature]
1/c ACCOUNTS OFFICER
[Signature]
21/11/17

JK

2019-20 (24.02)

No. RIEB-DEE/JPF/2019-20/ 2646
REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Dated: 08.07.2019

Subject:- Offer of engagement as Junior Project Fellow (JPF) in the Regional Institute of Education, Bhubaneswar.

Ms. Sangeeta is engaged as a Junior Project Fellow (JPF) under the Project "Reorganization and Merger of Schools at Elementary Level in Jharkhand in the context of the RTE Act. 2009: A Study" (PAC Code-17:02) purely on contractual basis with a fixed and consolidated remuneration of Rs.23,000/- (Rupees Twenty three thousand) only per month.

Terms and Conditions: -

1. The tenure of engagement as JPF is for a period maximum up to 31-03-2020 or till co-termination of the project, whichever is earlier. She is entitled to the remuneration from the date of her joining as JPF.
2. She is required to work under the direct supervision of Prof. R.K. Mohalik, Programme Coordinator of the Project of this Institute.
3. She will work full time for the project and will not accept or hold any appointment during the tenure of engagement at RIE, Bhubaneswar.
4. If she wishes to leave the assignment before the end of the tenure, she should inform the Principal, Regional Institute of Education, Bhubaneswar at least 10 days in advance.
5. The engagement can be terminated at any time if her performance is found to be unsatisfactory.
6. The offer as Junior Project Fellow will not confer on her any right or claim for any appointment to any post whatsoever in the NCERT. She will not be treated as an employee of the NCERT and therefore will not be entitled to any service benefits as admissible to regular employees of the NCERT.
7. In case Ms. Sangeeta is willing to accept the offer on the terms and conditions mentioned above, she may report to Prof. R.K. Mohalik, Programme Coordinator of this Institute on or before 10-07-2019, failing which the offer of engagement as JPF will be treated as cancelled.

This issues with the approval of the Principal.

8/7/19
✓Administrative Officer

To

Ms. Sangeeta
Mob:- 9473194163
Email:- sangeeta.sonu7@gmail.com

Copy to:-

1. Prof. R.K. Mohalik (Programme Coordinator. of the Project), Regional Institute of Education, Bhubaneswar for information. The date of joining of the JPF may please be reported & necessary certificate may be sent to the Accounts Officer in triplicate in each month for payment of remuneration.
2. Head, DEE. RIE., Bhubaneswar for information.
3. Accounts Officer, RIE., Bhubaneswar.
4. APC (P) for kind information of the Principal.
5. Orders File.

2017-18

(By E-mail)

No. 7-1/2017-JPF/RIEB-EC/ 3262
REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Dated: 3-8-2017


Subject:- Offer of engagement as Junior Project Fellow (JPF) in the Regional Institute of Education, Bhubaneswar.

Ms. Prangya Swani Samal is engaged as a Junior Project Fellow (JPF) under the Project "A Study on Secondary School Mathematics Classrooms of Bhubaneswar" (PAC Code-17:07) purely on contractual basis with a fixed and consolidated remuneration of Rs.14,000/- (Rupees Fourteen thousand) only per month.

Terms and Conditions: -

1. The tenure of engagement as JPF is for a period maximum up to 31-03-2018 or till co-termination of the project, whichever is earlier. She is entitled to the remuneration from the date of her joining as JPF.
2. She is required to work under the direct supervision of Dr. Saurabh Kapoor & Dr. (Mrs.) Dhanya Krishnan, Programme Coordinators of this Institute.
3. She will work full time for the project and will not accept or hold any appointment during the tenure of engagement at RIE, Bhubaneswar.
4. If she wishes to leave the assignment before the end of the tenure, she should inform the Principal, Regional Institute of Education, Bhubaneswar at least 10 days in advance.
5. The engagement can be terminated at any time if her performance is found to be unsatisfactory.
6. The offer as Junior Project Fellow will not confer on her any right or claim for any appointment to any post whatsoever in the NCERT. She will not be treated as an employee of the NCERT and therefore will not be entitled to any service benefits as admissible to regular employees of the NCERT.
7. In case Ms. Prangya Swani Samal is willing to accept the offer on the terms and conditions mentioned above, she may report to Dr. S. Kapoor, Assistant Professor of this Institute on 03-08-2017 latest by 07-08-2017, failing which the offer of engagement as JPF will be treated as cancelled.

This issues with the approval of the Principal.


02-8-17
Administrative Officer

To

Ms. Prangya Swani Samal
Mob:- 8895981856
Email:- prangya80@gmail.com

Copy to:-

1. Dr. S. Kapoor, Assistant Professor/Dr. (Mrs.) D. Krishnan, Assistant Professor (Programme Coordinators of the Project), Regional Institute of Education, Bhubaneswar for information. The date of joining of the JPF may please be reported to the Establishment Section. Necessary certificate may be sent to the Accounts Officer in triplicate in each month for payment of remuneration.
2. Head, DEE, RIE., Bhubaneswar for information.
3. Accounts Officer, RIE., Bhubaneswar.
4. APC (P) for kind information of the Principal.
5. Orders File.

2018-19

No. 7-1/2018-JPF/RIEB-ECI - 2639
REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Dated: 31-05-18

Subject:- Offer of engagement as Junior Project Fellow (JPF) in the Regional Institute of Education, Bhubaneswar.

Mr. Sidhanta Sekhar Bisoi is engaged as a Junior Project Fellow (JPF) under the Project "Education for Sustainable Development: Study and Documentation of Indigenous Knowledge and Innovative Practices on Conservation of Natural Resource from Tribal Pockets of Odisha" (PAC Code-17:01) purely on contractual basis with a fixed and consolidated remuneration of Rs.23,000/- (Rupees Twenty three thousand) only per month.

Terms and Conditions: -

1. The tenure of engagement as JPF is for a period maximum up to 31-03-2019 or till co-termination of the project, whichever is earlier. He is entitled to the remuneration from the date of his joining as JPF.
2. He is required to work under the direct supervision of Prof. M.K. Satapathy, Programme Coordinator of this Institute.
3. He will work full time for the project and will not accept or hold any appointment during the tenure of engagement at RIE, Bhubaneswar.
4. If he wishes to leave the assignment before the end of the tenure, he should inform the Principal, Regional Institute of Education, Bhubaneswar at least 10 days in advance.
5. The engagement can be terminated at any time if his performance is found to be unsatisfactory.
6. The offer as Junior Project Fellow will not confer on him any right or claim for any appointment to any post whatsoever in the NCERT. He will not be treated as an employee of the NCERT and therefore will not be entitled to any service benefits as admissible to regular employees of the NCERT.
7. In case Mr. Sidhanta Sekhar Bisoi is willing to accept the offer on the terms and conditions mentioned above, he may report to Prof. M.K. Satapathy of this Institute on or before 08-06-2018, failing which the offer of engagement as JPF will be treated as cancelled.

This issues with the approval of the Principal.

K. S.
31-5-18
Administrative Officer

To

Mr. Sidhanta Sekhar Bisoi
Mob:- 8093872293 / 9778558680
Email:- sidhantasekhar91@gmail.com

Copy to:-

1. Prof. M.K. Satapathy (Programme Coordinators of the Project), Regional Institute of Education, Bhubaneswar for information. The date of joining of the JPF may please be reported to the Establishment Section. Necessary certificate may be sent to the Accounts Officer in triplicate in each month for payment of remuneration.
2. Head, DEE, RIE., Bhubaneswar for information.
3. Accounts Officer, RIE., Bhubaneswar.
4. APC (P) for kind information of the Principal.
5. Orders File.

2020-21

(By Email)

F.No.18/DEE/17.05/2020-21/ 8444

REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Dated: 14.10.2020

Subject:- Offer of engagement as Junior Project Fellow (JPF) in the Regional Institute of Education, Bhubaneswar.

Mr. Santosh Kumar Parida is engaged as a Junior Project Fellow (JPF) under the Project "Creativity and Problem Solving Skills of Tribal Learners in Elementary School of A&N Islands (PAC Code-17.05)" purely on contractual basis with a fixed and consolidated remuneration of Rs.25,000/- (Rupees Twenty five thousand) only per month.

Terms and Conditions: -

1. The tenure of engagement as JPF is for a period up to 31-03-2021 or till co-termination of the project, whichever is earlier. He is entitled to the remuneration from the date of his joining as JPF.
2. He is required to work under the direct supervision of Prof. B.N. Panda, Dean (R) and Programme Coordinator of the Project of this Institute.
3. He will work full time for the project and will not accept or hold any appointment during the tenure of engagement at RIE, Bhubaneswar.
4. If he wishes to leave the assignment before the end of the tenure, he should inform the Principal, Regional Institute of Education, Bhubaneswar at least 10 days in advance.
5. The engagement can be terminated at any time if his performance is found to be unsatisfactory.
6. The offer as Junior Project Fellow will not confer on him any right or claim for any appointment to any post whatsoever in the NCERT. He will not be treated as an employee of the NCERT and therefore will not be entitled to any service benefits as admissible to regular employees of the NCERT.
7. In case Mr. Santosh Kumar Parida is willing to accept the offer on the terms and conditions mentioned above, he may report to Prof. B.N. Panda, Dean (R) of this Institute on or before 20-10-2020, failing which the offer of engagement as JPF will be treated as cancelled.

This issues with the approval of the Principal.

UPB
14/10/2020
Administrative Officer

To

Mr. Santosh Kumar Parida
Mob:- 9090056690
Email:- santosh.ma.education@gmail.com

Copy to:-

1. Prof. B.N. Panda, Dean (R), (Programme Coordinators of the Project), Regional Institute of Education, Bhubaneswar for information. The date of joining of the JPF may please be reported & necessary certificate may be sent to the Accounts Officer in triplicate in each month for payment of remuneration.
2. Head, DEE, RIE., Bhubaneswar for information.
3. Accounts Officer, RIE., Bhubaneswar.
4. PA (P) for kind information of the Principal.
5. Orders File.

(By Email)

F.No./RIEB/DEE/JPF/-2021-22/ 3066
 REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Dated: 28.09.2021

Subject:- Offer of engagement as Junior Project Fellow (JPF) in the Regional Institute of Education, Bhubaneswar.

Mr. Binit Kumar Sahu is engaged as a **Junior Project Fellow (JPF)** under the Project "Implementation of NCERT Intervention at School Stage: A Block Level Research Project" (PAC Code-24.01), purely on contractual basis with a fixed and consolidated remuneration of Rs.25,000/- (Rupees Twenty five thousand) only per month.

Terms and Conditions: -

1. The tenure of engagement as JPF is for a period up to 31-03-2022 or till co-termination of the project, whichever is earlier. He is entitled to the remuneration from the date of his joining as JPF.
2. He is required to work under the direct supervision of Programme Coordinators of the Project of this Institute.
3. He will work full time for the project and will not accept or hold any appointment during the tenure of engagement at RIE, Bhubaneswar.
4. If he wishes to leave the assignment before the end of the tenure, he should inform the Principal, Regional Institute of Education, Bhubaneswar at least 10 days in advance.
5. The engagement can be terminated at any time if his performance is found to be unsatisfactory.
6. The offer as Junior Project Fellow will not confer on him any right or claim for any appointment to any post whatsoever in the NCERT. He will not be treated as an employee of the NCERT and therefore will not be entitled to any service benefits as admissible to regular employees of the NCERT.
7. In case Mr. Binit Kumar Sahu is willing to accept the offer on the terms and conditions mentioned above, he may report to Prof. S.K. Dash, I/c. C.A.C. of this Institute on 29-09-2021 latest by 05-10-2021, failing which the offer of engagement as JPF will be treated as cancelled.

This issues with the approval of the Principal.



Administrative Officer

To

Mr. Binit Kumar Sahu
 Email:- binit6196@gmail.com
 Mob:- 8895817172

Copy to:-

1. Prof. P.C. Agarwal/Prof. M.K. Satapathy/Prof. B.N. Panda/Prof. S.K. Dash (Programme Coordinators of the Project), Regional Institute of Education, Bhubaneswar for information. The date of joining of the JPF may please be reported & necessary certificate may be sent to the Accounts Officer in triplicate in each month for payment of remuneration.
2. Head, DEE, RIE., Bhubaneswar for information.
3. I/c. Accounts Officer, RIE., Bhubaneswar.
4. APC (P) for kind information of the Principal.
5. Orders File.

No. F 20-1/2021-22/P22/TA/DA/Hon/373-365

NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING
 Planning and Monitoring Division
 Programme Section

Date: 8th September, 2021



Subject: Revision of Honorarium to Non-NCERT Participants/Resource Persons/Honorary Directors, etc. for the NCERT Programmes - reg.

In pursuant to the decision taken in the 143rd Finance Committee Meeting held on 9th August, 2021, the rates of Honorarium to Non-NCERT Participants/Resource Persons/Honorary Directors for attending NCERT programmes and Tea/Coffee, Working Lunch, Stationery are hereby revised as under:

S.No	Items	Existing Rates for 2021-22	Revised Rates
1.	Honorarium to Resource Persons/ Experts in Workshop/Training/ Orientation/Seminars/Conferences/Persons attending IAB/ DAB/ PAC/ High Level Meeting etc.	Rs.2000/- per day	Rs.2500/- per day
2.	Experts invited to give lectures in specialized areas in NCERT's programmes/or for consultations/ selection committee	Rs.2000/- per lecture/consultation/ selection committee per day	Rs.2500/- per day
3.	Honorarium to Honorary Director (If the programme is the more than 05 days)	Rs.2000/- per day Maximum Rs. 12,000/-	Rs.2500/- per day Maximum Rs.15,000/-
4.	Tea/Coffee with snacks (Normal)	Rs. 30/- per day per head	Rs. 40/- per day per head
5.	Working Lunch	Rs. 115/- per day per head	Rs. 140/- per day per head
6.	Stationery for the programmes	Rs. 75/- per head	Rs. 100/- per head

Note: No Honorarium will be paid to the participants in the training programmes/ seminars and conferences.

The revised rates will be applicable with effect from the date of issue of the order.

This issues with the approval of the Director, NCERT.

(Ashita RaVeendran)
 I/c Head, PMD

- Principals of RIEs at Ajmer, Bhopal, Bhubaneswar, Mysore and NERIE- Umiam, Shillong
- Joint Directors, CIET and PSSCIVE, Bhopal
- All Heads of NIE Departments/Divisions/Cells/Group
- All Deputy Secretaries/VSO/C&W/C&P Section
- CAO, NCERT (With a spare copy)
- Manager NIE, Guest House

Copy for information to:

- PS to Director/ Joint Director, NCERT
- P.S to Secretary, NCERT

File

16/9/21

WSP (S/P)
PA
15/9/21
Head, DEE (for circulation among all concerned)
15/9/21
16/9/21