

## NEP-2020:

## Innovation in Teaching-Learning & Evaluation Process in Higher Education

24 to 26th February 2023

Calangute, Bardez, Goa

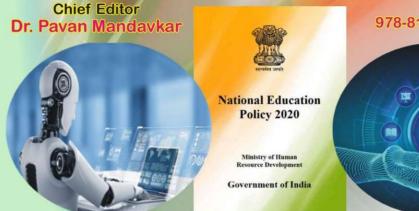
#### **Conference Proceedings**

Print and Online Issue 1 English and Hindi

Published as per UGC (India) Guidelines

www.researchjournal.net.in

www.indiramahavidyalaya.com







## Organized and Published By INDIRA MAHAVIDYALAYA

KALAMB, DISTT. YAVATMAL, MAHARASHTRA 445 401 (INDIA)
in collaboration with RJI, DBMRC and
Sant Gadge Baba Amravaati Vidyapeeth Marathi Pradhyapak Parishad

#### Indira Mahavidyalaya, Kalamb

Sant Gadge Baba Amravati University Marathi Pradhyapak Parishad, Research Journal of India & Dr. Bhau Mandavkar Research Center Sponsored **National Conference** on

#### NEP-2020:

# INNOVATION IN TEACHING-LEARNING & EVALUATION PROCESS IN HIGHER EDUCATION

24, 25 and 26 Feb. 2023 at Calangute, Goa

#### CONFERENCE PROCEEDINGS

ISSUE I - ENGLISH, HINDI

#### **Chief Editor**

#### ☐ Dr. Pavan Mandavkar

Principal, Indira Mahavidyalaya & Chairman, DBMRC President, Sant Gadge Baba Amravati Vidyapeeth Marathi Pradhyapak Parishad, Amravati

#### **Associate Editor**

#### Dr. Veera Mandavkar

Director, Dr. Bhau Mandavkar Research Centre (DBMRC)

#### ---- Editorial Board ----

Prof. Rekha Wath, Prof. Nilkantha Narule, Prof. Saroj Lakhadive Dr. Madhuri Rakhunde, Prof. Prashant Jawade, Dr. Dashrath Chavhan Dr. Pandurang Ingale, Dr. K.R. Nemade, Dr. Ved Patki, Prof. Sheetal Raut

#### **Printer**

#### Sewa Prakashan

Vijay Colony, Rukmini Nagar, Amravati, Maharashtra 444 606

#### Cover Page Design & Computer Dr. Pavan Mandavkar

#### Publisher

#### Dr. Mrs. Veera Mandavkar

Director, Dr. Bhau Mandavkar Research Centre
Indira Mahavidyalaya, Kalamb, Dist. Yavatmal, Maharashtra 445 401(India)
E mail – marathipradhyapak@gmail.com, researchjournalofindia@gmail.com
Telephone: 07201-226147, 226129, Mob. Chief Editor: 9422867658, Director & Publisher: 9403014885
Websites: www.indiramahavidyalaya.com, www.researchjournal.net.in

#### Index

	From the Bench of Editor	Dr. Pavan Mandavkar	2
	Index		3
1	Role of Teacher in NEP 2020	Miss. Saroj Lakhadive	4-6
2	Quality Academic Research in all Fields through	Asst. Prof.	7-9
	a New Research Foundation	Gaurav Saxena	
3	National Education Policy 2020: Issues and	Prof. Dr. Ajay Khadse	11-13
	Challenges in Higher Education		
4	ए.आई.एम.एल. एकीकृत प्रणाली से कृषि –	डॉ. संकर्षण पंडा	14-19
	एक अंतर्विषयक शोध		
5	The New Education Policy: Concerns and	1. Dr. Praful U. Gawai	20-23
	Prospects in context of Higher Education	2. Prof. Vilas Bhavare	
6	Impact of plyometric & cycle ergometer training	1. Mrs. Shital S. Raut	24-28
	on handball players' anaerobic performance	2. Dr. Pravin C. Dabare	
7	NEP 2020 and Rabindranath Tagore's Vision of	Prof. P. S. Jawade	29-31
	Education		
8	Value education: a GOEC through	Dr. Dasharath Chavhan	32-34
	E-learning for sustainable development of society		
9	Synthesis spectral characterisation and biological	Dr. Suraj Deshmukh	35-42
	activity of hetero-cyclic compound of	Dr. M K Rahangdale	
	2-imidazolones		
10	Language, Art, and Culture in NEP-2020	Dr. Pavan Mandavkar	43-46
11	National Education Policy 2020 in Context of Higher Education: An Overview	Prof. Dr. Ravi Prakash Chapke	47-50
12	Re-Visiting Indian Education with a STEM:The Game Changer Teaching Methodology in NEP	Kailash Nemade <sup>a</sup> Ved Patki <sup>b</sup>	51-53
	2020	VCU FAIRI	
13	गाँधीजी की बुनियादी शिक्षा एवं नई शिक्षा नीति —	डॉ. हंसा शुक्ला	54-56
	विश्लेषणात्मक अध्ययन	625.)	
14	Innovation in Mathematics Teaching & Learning Process in Higher	Rupesh R. Atram	57-62
	Mathematics Education Through New NEP-2020		
1.5	नव्या शैक्षणिक धोरणाच्या अंमलबजावणीपृढील आव्हाने	डॉ. वीरा मांडवकर	63-67
15		Particle (Additional Property Control Control	
16	अध्ययन, अध्यापन व मूल्यमापन प्रक्रियेतील नावीन्यता	प्रा. डॉ. पांडुरंग इंगळे	68-69

( $\square$ All copyrights are reserved with the Chief Editor. The opinions expressed are of the authors & the association advisory board, editorial board as well as the peer committee does not hold any responsibility for any of the views expressed.)

### Re-Visiting Indian Education with a STEM: The Game Changer Teaching Methodology in NEP 2020

Kailash Nemade", Ved Patkib

\*Department of Physics, Indira Mahavidyalaya, Kalamb Dist. Yavatmal 445401. Department of Zoology, Indira Mahavidyalaya, Kalamb Dist. Yavatmal 445401. Corresponding Author E-Mail Address : vedpatki@gmail.com (Dr. VedPatki)

#### Abstract

Science Technology Engineering Mathematics (STEM) subjects are gradually being acknowledged as being an essential component of education. Consequently, STEM education plays a crucial part in the National Education Policy 2020. When discussing the lack of trained people and subpar education in certain disciplines, the term "STEM education" has become popular. Modern technology is used in STEM education to improve STEM abilities. Additionally, this promotes interest in STEM disciplines.

Keywords: Indian Education; STEM, NEP 2020

Because of our growing reliance on technology, the world's workforce is now both smaller and more competitive. Likewise, nations must make sure that their future leaders are able to adapt to change, think critically, and work quickly. Science, Technology, Engineering, and Mathematics, or STEM, is a term that was first used in the US in the 1990s. It was formed in the early 2000s as a way to demonstrate how the four disciplines are interrelated. Simply said, STEM illustrates the needs of the future global workforce.

STEM-related job postings have grown by 44% in India between 2016 to 2019. The National Science Foundation estimates that 80 percent of the new occupations developed around the world in the upcoming ten years will involve some kind of math or science. A number of nations, such as the UK, Canada, and Australia, have netional STEM strategies to close the skills gap in their

According to NEP, the child's report card must include both objective and skilled or vocational issues. A child's learning was formerly evaluated on the basis of rute memory of the subjects. Currently, it is competency-based, which encourages more analysis and conceptual clarity in the learning graphs of the children. This evaluation goal satisfies the need to enhance the educational system as a whole and brings about ongoing revisions to the teaching-learning process for the growth of a student. STEM fosters the highest performance for evaluation, aids in reviewing and analyzing prior learning, and aids in a child's overall growth [2], It denotes

Marks will be nothing more than a number,

Your child's future is entirely dependent on the knowledge and abilities that he or she can keep. When we refer to sumeone's skills, we imply how well their theoretical

knowledge translates into real-world application.

STEM education can cover this type of instruction, particularly for areas like science and math. For nations like ours, which have a large youth population, the aforementioned, high-quality education will do best to enrich their talent and do the best resource utility

Only school-level instruction will now be provided in the high-quality, practical education that we previously received in colleges and other higher education institutions,

#### Form IV

(See Rule 8)

Statement about ownership and other particular about the Conference Proceedings

#### NEP-2020: Innovation in Teaching-Learning & Evaluation Process in Higher Education

1. Place of Publication Indira Mahavidyalaya, Kalamb, Dist. Yavatmal 445401

2. Published on 24 Feb. 2023

3. Printer's Name Seva Prakashan, Vijay Colony, Amravati 444606 (M.S.)

4. Publisher's Name Dr. Mrs. Veera Mandavkar

Nationality Indian

Address Indira Mahavidyalaya, Kalamb, Dist. Yavatmal 445401

5. Chief Editor's Name Dr. Pavan Mandavkar

Nationality Indian

Address Principal, Indira Mahavidyalaya, Kalamb, Dist. Yavatmal

We, Dr. Pavan Mandavkar & Dr. Mrs. Veera Mandavkar hereby declare that the particulars given above are true to the best of our knowledge and belief.

Dr. Y.M. Donde Sarwajanik Shaikshanik Trust's (1974)

#### **INDIRA MAHAVIDYALAYA** (1983)

KALAMB, DIST. YAVATMAL, MAHARASHTRA 445401

2 07201-226147, 226129 (Fax)

Web.: www.indiramahavidylaya.com www.researchjournal.net.in Email: imvkalamb@yahoo.co.in

indiram414@sgbau.ac.in For Research centre: researchjournalofindia@gmail.com

marathipradhyapak@gmail.com

Permanently Affiliated to SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

RECOGNIZED BY UGC UNDER 2 F & 12 B NAAC RE-ACCREDITED WITH 'B+' GRADE

#### Conference Organizing Committee and Editorial Board

Convenor& Principal - Dr. Pavan Mandavkar

Co-convenor & Director, Research Centre - Dr. Veera Mandavkar

Prof. Nilkanth Narule Dr. Madhuri Rakhunde Prof. Saroj Lakhdive Prof. Rekha Wath Prof. Prashant Jawade Dr. Dasharath Chavhan Dr. Pandurang Ingle Dr. Kailash Nemade Dr. Ved Patki Prof. Shital Raut



(All rights are reserved with the Authors, Publisher & Editorial Board. The opinion expressed are of the authors & the advisory board, editorial board as well as the organizers does not hold any responsibility for any of the views expressed. Judiciary matter in Kalamb Court only.)

