

VSPM Academy of Higher Education Jawaharlal Nehru Arts, Commerce and Science College Wadi, Nagpur Dist. Nagpur (Maharashtra) 440023

> Criterion III Research, Innovations and Extension

**3.3 Research Publications and Awards** 

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years



VSPM Academy of Higher Education Nagpur's

Jawaharlal Nehru Arts, Commerce and Science

College, Wadi, Nagpur- 440023 (M.S.)

(Affiliated to RTM Nagpur University, Nagpur)

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Phone: (07104) 220963

Date: 10/09/2024

This document hereby confirms that the data enclosed, comprising information, supporting documents, numerical data, and reports, has been thoroughly examined and authenticated by both the IQAC and the Principal, and is deemed accurate.

Convenor

(IQAC) JN. Arts, Comm. & Sci. College Wadi, Nagpur



Jawaharlal Nehru Arts, Comm. & Sci. College, Wadi, Nagpur



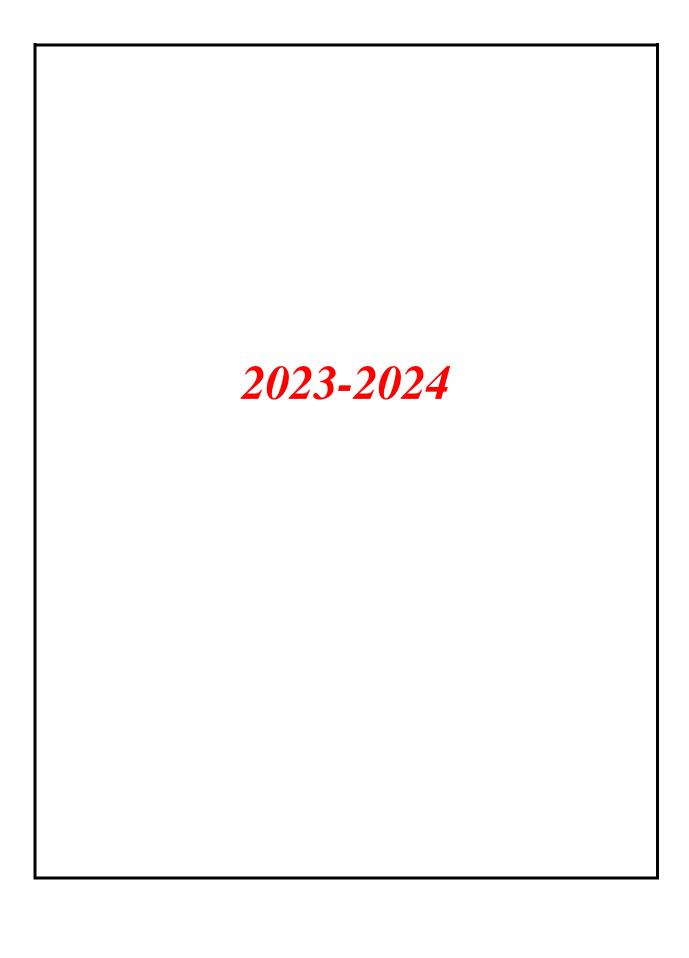
# Books and chapters in edited volumes/books published

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings year wise during last five years. (1) Number of books and chapters in edited/books published –

Year	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020	2018-2019
Number	05	10	06	02	01	03

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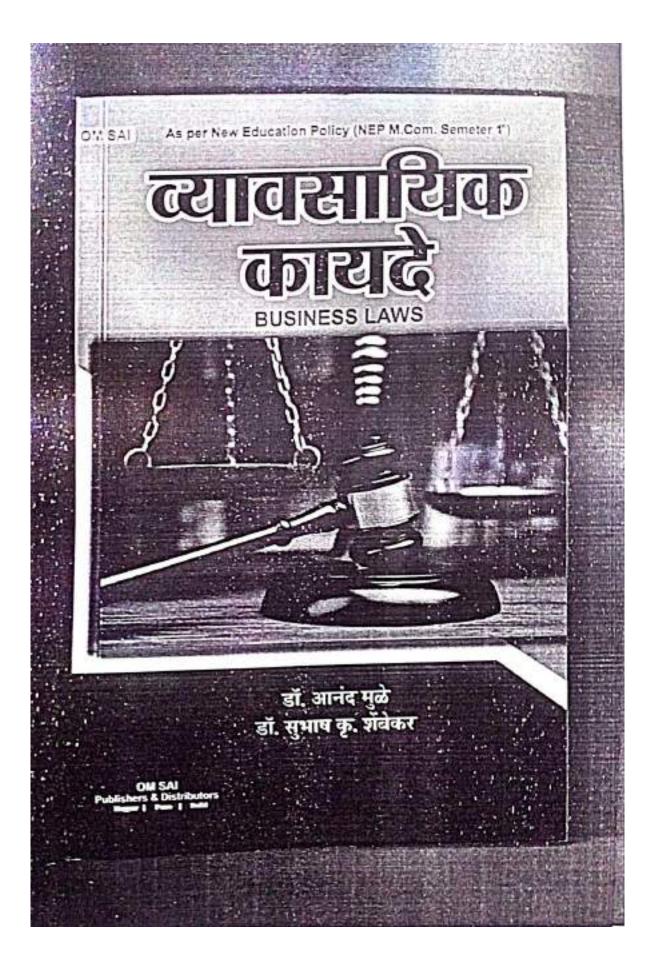
Principal Jawaharlai Nehrs Arts, Comm. & Sci College, WadiNagpur

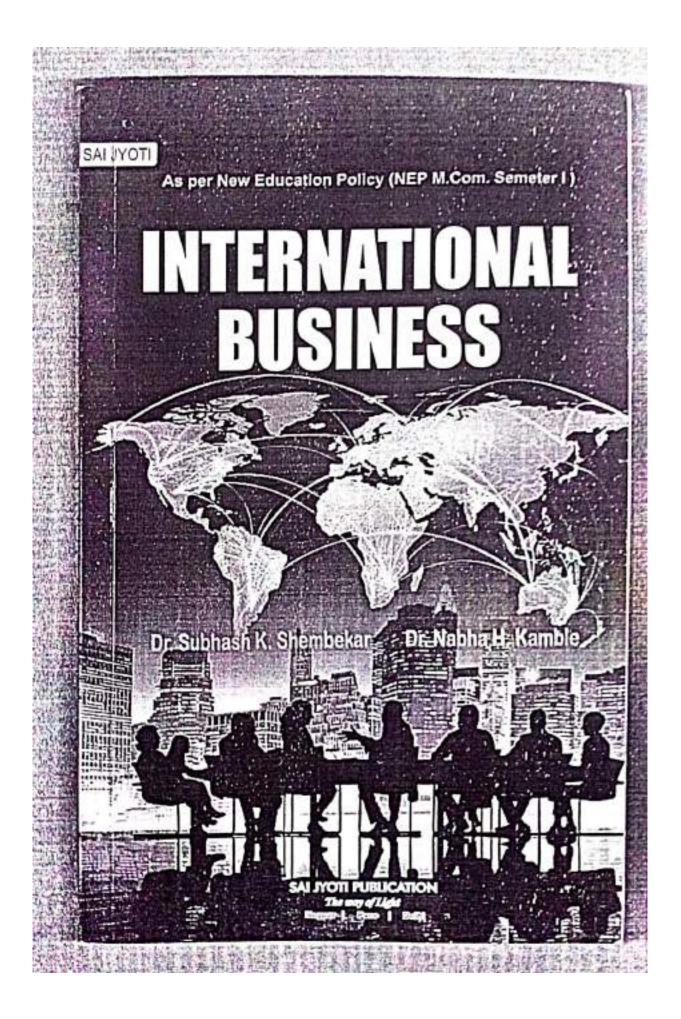


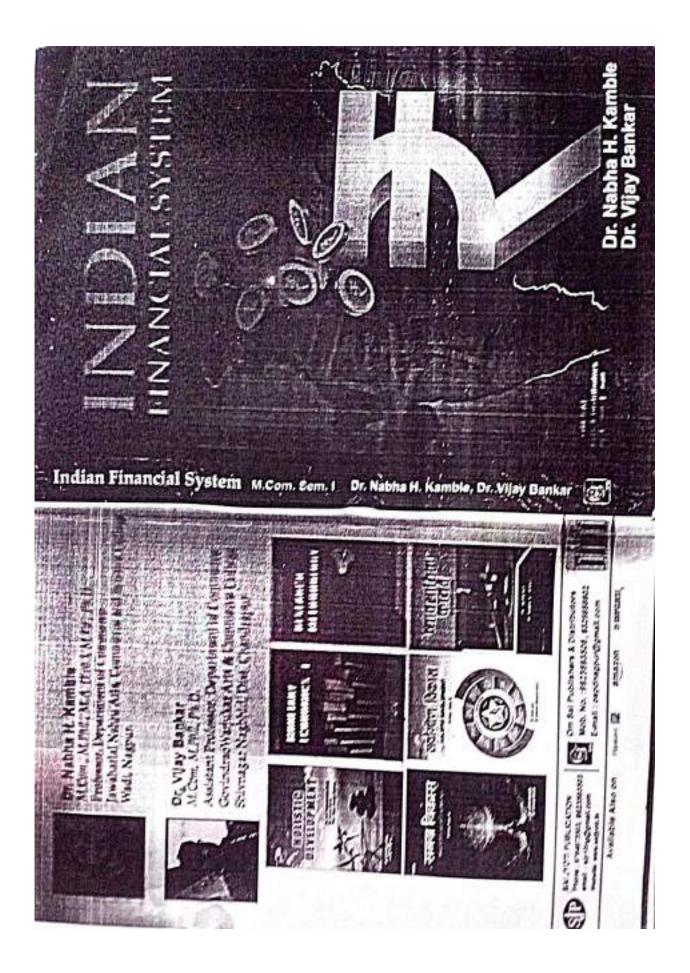
S. No.	Name of Teacher	Title of Book published / Name of Authors	Name of publisher	National, International/ ISBN/ISSN	Year of publication
01.	Dr. S. K. Shembekar	As per New Education Policy (NEP M. Com, Semester I. व्यावसायिक कायदे Business Laws	Om Sai Publishers and Distributers Nagpur	National	2024
02.	Dr. S. K. Shembekar	As per New Education Policy (NEP M. Com, Semester I. International Business	Sai Jyoti Publications Nagpur	National	2024
03.	Dr. (Mrs.) N. H. Kamble	Indian Finance System (M. Com. Semester I)	Sai Jyoti Publications Nagpur	National	2024
04.	Dr. S. K. Shembekar AND Dr. (Mrs.) N. H. Kamble	As per New Education Policy (NEP M. Com, Semester-I) International Business	Sai Jyoti Publications Nagpur	National	2024
05.	Dr. N. R. Petkar	The Rationalist in Dr. B. R. Ambedkar: The Legacy of Social Policy in India	Parab Publications, India ISBN-978-81-19585- 79-3	National	2023

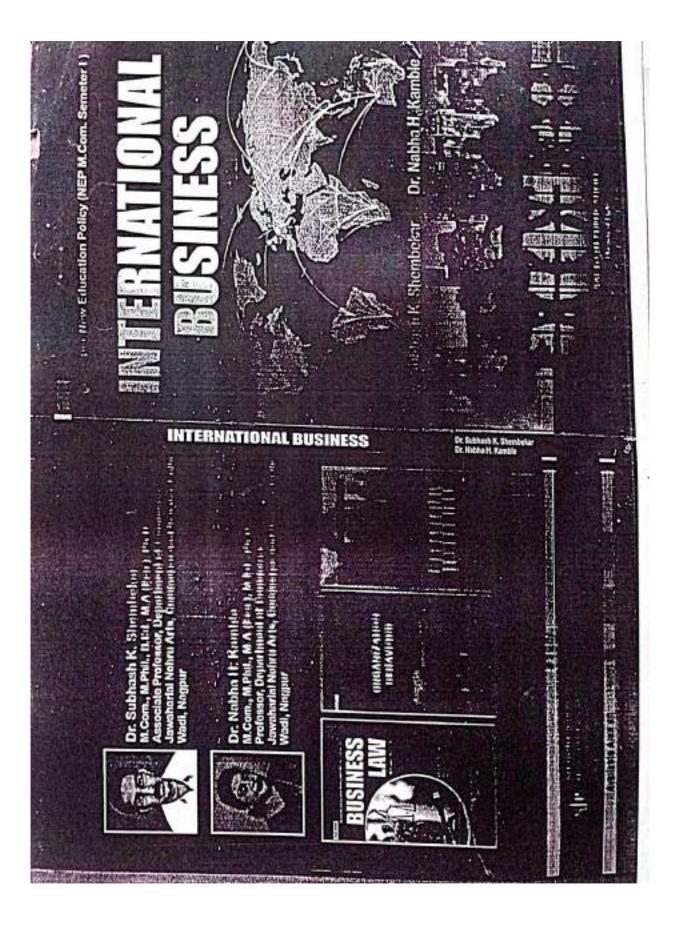
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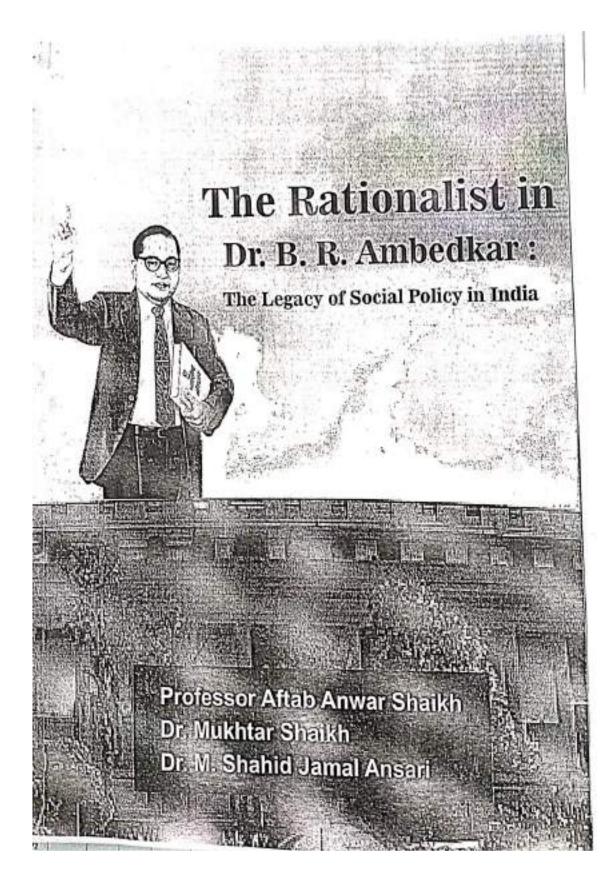
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#### DR. AMBEDKAR'S CONTRIBUTION IN MAKING OF CONSTITUTION OF INDIA

#### Dr. Nirlay R. Petkar

Assistant Professor, Department of English, Jawaharlal Nehru College Wadi, Nagpur, (Maharashtra)

#### INTRODUCTION

Dr. Ambedkar was the greatest humanitarian and revolutionist. He was a great philosopher and one of great intellectuals of the world. He was a human rights pioneer who liberated one billion Bahujan's and women. He also revived Buddhism in the land of its origin and oblivion. The father of modern scientific, industrial, and urban India. He is also the Father of all Fathers due to his unparalleled fore vision and work in building the Indian Democratic Nation by planning and policy formulation. Annihilation of caste, individual, and free social order, reorganization of India, "New India" and "New Social Order," Prabuddha Bharat, and the New World Order. Democracy and Democratic World Order, world reconstruction, and an enlightened New World are some of the enlightenments that captivate humanity as a whole, not just Indians. His legacy continues to inspire both at home and abroad, with millions admiring. His life and mission, as well as the billions of dollars at stake, every year, Deeksha Bhoomi (Nagpur) and Chaitya Bhoomi (Mumbai) have over 1 million followers. So are Kranti Bhoomi (Mahad, Nashik) and Mahaparinirvan Bhoomi (New Delhi). Thousands of villages and cities across India, Europe, America, Africa, Australia, and Asia celebrate April 14th, and Columbia University, Simon Fraser University, Koyasan University, the London School of Economics, and others have begun to pay attention to this world philosopher and revolutionary, who not only awakens India's conscience but enlightens the entire humanity.

Bharat as a country was to frame a constitution for the 1st time in its civilization in pursuance with the Cabinet Mission Plan of May 16, 1946. Though the developments started with August offer of 1940, amidst world war2nd. The elections to the CA completed by the end of July 1946 ( except for the sikh seats in Punjab which completed in August 1946. The congress was anxious to take steps to convene the CA but the Muslim League was reluctant to join the CA for its demand of Pakistan, though it has nominated 5 members in the Interim Govt.None the less a decision was taken to summon the CA and invitations to all the members were send on 20th November and the 1st meeting of the CA was convened on 9th December 1949 at 11.00 AM. At Constituent Assembly Chamber in the Council House, New Delhi. Out of 296 members, 207 attended. Muslim League members boycotted the Assembly. Amidst uncertainty of Muslim League participating in the CA which got a little clear only in January 1947, with its stand not to participate. Accordingly on February 20, 1947 the British Prime Minister Atlee made a statement in House of Commons, clarifying as to whom the powers of the Central Government in British India should be handed over in absence of a fully representative CA. In context of the functioning of CA it must be noted that from 9th December 1946 to 26th November 1949 the Constituent Assembly in its 11 sessions sat for 166 days and the Drafting Committee from 30th August 1947 to 26th November 1949 met for 141 days. The rest of the period barring this (166 +141= 10 months & 5 days) was consumed by work of various committees and suggestions solicited. Out of the 166 days the CA spend only 114 days for the consideration of the Draft Constitution, the rest for consideration of reports and legislative matters. The DC apart from dealing with total 2473 amendments moved in the CA considered reports of various committees, notes, references letters, opinions& suggestions from all. What a stupendous job in framing the lengthiest & best Constitution with 395 Articles and 8 Schedules if compared with the

The Indian Constitution is regarded as the bedrock of India's democratic, administrative system. There have been many ups and downs in the social, political, administrative, and other fields

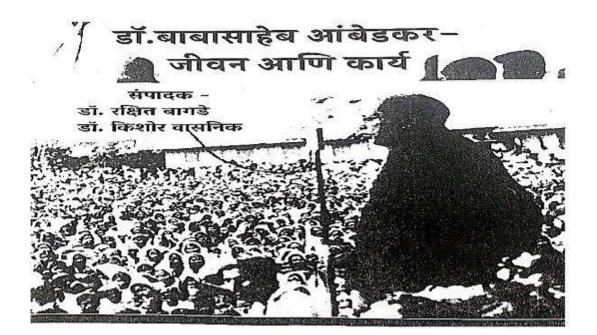
Professor Aftab Anwar Shaikh, Dr. Mukhtar Shaikh and Dr. M. Shahi: Jamal Ansari

## *2022-2023*

S. No.	Name of Teacher	Title of Book published / Name of Authors	Name of publisher	National, International/ ISBN/ISSN	Year of publication
01.	Dr. N. R. Petkar (English)	Dr. Babasaheb Ambedkar- Life and Work (Chapter in a book, Dr. B. R. Ambedkar : father of Indian Constitution))	Notion Press media Pvt. Ltd. Chennai, Tamilnadu,	National 979-88-90028- 41-9	April 2023
02.	Dr. (Mrs.) A. K. Deshmukh (English)	Gender Equality (Chapter in a book, Gender Based themes in post – colonial Indian English women writers : with refrence to Kamla Markandaya, Shashi Deshpande and Anita Desai)	B. Aadhar Publications	National 978-93-91305- 28-1	March 2023
03.	Dr. (Mrs.) L. V. Phate (English)	Gender Equality (Chapter in a book, Gender Roles and Stereotypes in the selected writings of Githa Hariharan)	B Adhar Publications	National 978-93-91305- 28-1	March 2023
04.	Dr. (Miss) P. P. Kurhekar (Library)	<b>Gender Equality</b> (Chapter in a book, Human rights and domestic violence of women)	B Adhar Publications	National 978-93-91305- 28-1	March 2022
05.	Dr. (Miss) M. M. Bhatkulkar (Zoology)	Wastewater Assessment, Treatment, Reuse and Development in India (Chapter in a book, Sustainable Construction Practices for Residential Buildings to Reduce the water footprint)	Earth and Environmental Sciences Library, Springer Nature publications	International 978-3-030- 95786-5	August 2022
06.	Dr. (Miss) M. M. Bhatkulkar (Zoology)	<b>Gender Equality</b> (Chapter in a book, Changing status of women in India)	B Adhar Publications	National 978-93-91305- 28-1	March 2023
07.	Dr. G. D. Zade (Physics)	A Text Book of Physics (B. Sc. Semester- III) (Full paper in Textbook)	SaiJyoti Publications	National 978-93-95008- 20-4	Nov. 2022
08.	Dr. G. D. Zade (Physics)	A Text Book of Physics (B. Sc. Semester- V) (Full paper in Textbook)	SaiJyoti Publications	National 978-93-91201- 70-8	Nov. 2022
09.	Dr. S. S. Tekade (Commerce)	Commercial Firms	Sir Sahitya Kendra Nagpur	National 978-93-94477- 10-0	
10.	Dr. S. S. Tekade (Commerce)	Business Economics	Sir Sahitya Kendra Nagpur	National 978-93-94477- 05-6	

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#### Dr. B.R. Ambedkar: Father of Indian Constitution

Dr. Nirløy.R. Petkar Assistant Professor Jawaharlal Nehru College Wadi, Nagpur (Maharashira)

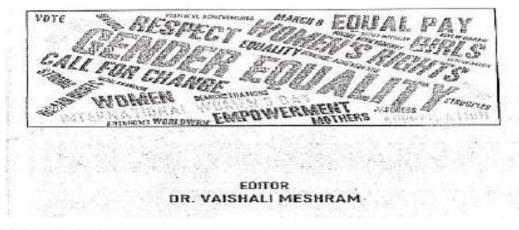
#### Abstract-

Dr. Ambedkar was the world's greatest humanitarian. He was the pioneer of human rights There were total of seven members on the drafting committee, such as: 1) A. Krishna Swamy Iyer. 2) , N. Gopalswamy Iyengar 3) Dr. Ambedkar 4) K.M. Munshi 5) Muhammad Sadulla Sayyad6) N. Madhav Rao 7) Krishnam Aachari. In the first meeting of the committee, Dr. Ambedkar was unanimously elected the chairman of the Drafting Committee. But unfortunately, the other six members of the committee were not available because of their various personal reasons. So, all the burden comes on the shoulders of Dr. Ambedkar. But Dr. Ambedkar has single-handedly taken on the responsibility of drafting the Indian Constitution. That's why Dr. Ambedkar was considered as Father of Indian Constitution.

Keywords: Constitution, Humanitarian Assembly, Drafting.

#### Introduction:

Dr. Ambedkar was known for his great contribution to the Constitution of India. He was the greatest humanitarian and revolutionist. He was a great philosopher and one of great intellectuals of the world. He was a human rights pioneer who liberated one billion Bahujan's and women. He also revived Buddhism in the land of its origin and oblivion. The father of modern scientific, industrial, and urban India His legacy continues to inspire both at home and abroad, with millions admiring. His life and mission, as well as the billions of dollars at stake, every year, Deeksha Bhoomi (Nagpur) and Chaitya Bhoomi (Mumbai) have over 1 million followers. So are Kranti Bhoomi (Mahad, Nashik) and Mahaparinirvan Bhoomi (New Delhi). Thousands of villages and cities across India, Europe, America, Africa, Australia, and Asia celebrate April 14<sup>th</sup>. Our constitution remained our guiding light. The future of India and the future of Indian citizens depend on our constitution. That is why, it is prime duty of every citizen



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Gender Equality

#### Gender Based Themes in Post-Colonial Indian English Women Writers: With Reference to Kamala Markandaya, Shashi Deshpande and Anita Desai Dr Archana Kiran Deshmukh

Admistant Professor, Dept. Of English, Jawaharlal Nehru Arts, Commerce amat Science College, Wadi, Nagpur, archanakirandeshmukh@gmail.com, 9922658885

#### Abstract

This paper is an attempt to analyse the depiction of gender in the work of postcolonial Indian English women writers with special reference 22 Kamala Markandaya,Shashi Deshpande and Anita Desai.Women empowerment and feminism finds their expression with all the strength and might in postcolonial Indian English literature. These writers individuality suggesting various perceptions of Indian morals and Indian celtural inheritance. While presenting gender issues they pertain to the unadition, mythological symbols, family structure and caste system as key elements of patriarchal social organizationand aims at achieving gender estive. These women writers study the status of women in postcolonial Easting where the government agencies claim to be safeguarding their sentty, gender equality while maintaining their self-respect, but in servery, women face many biases leading to internal as well as external mariners. With the passage of time, these women writers indicate a bright farmer by depicting more modern and strong women characters. words: gender, postcolonial, feminism, equality, patriarchy

#### Estroduction

Indian writing is always understood and recognized as one of the most conventional writings in the world through its countless folklore and fertions from pre-independent to post-independent times. The growth of batian English literature after independence has been noteworthy and britisms, encompassing a variety of themes and aspects of human existence. Women empowerment and feminism finds their expression with all the strength and might in post-independent Indian English interative. Indian women writers like Nayantara Sehgal, Shashi Desicande and Kamala Markandaya, Anita Desai, Ruth Prawer Jhabvala, Kiran Desai and more recent ones like Arundhati Roy, Githa Hariharan interative of gender equality in a modernistic line, social realism and in

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EDITOR DR. VAISHALI MESHRAM

Gender Equality

#### Gender Roles and Stereotypes in the Selected Writings of Githa Hariharan

Dr Leena V. Phate Asst, Prof. & Head, Dept. of English, Jawaharlal Nehru Arts, Commerce & Science College Wadi, Nagpur, Maharashtra, India leenaphate29@gmail.com (9922658768)

#### Abstract

Githa Hariharan is a postcolonial Indian woman writer. She was born in 1954 in Coimbatore, India, and she grew up in Bombay and Manila. Her fictional world includes novels, short stories, essays, newspaper articles and columns. The Thousand Faces of Night, her debut book, was published in 1992 and was awarded the 1993 Commonwealth Writers Award. The present paper is essentially about gender rolesandstereotypes as found in the literature and culture of India. The focus of the paper is on the exploration of the stereotype of traditional Indian woman in The Thousand Faces of Night, The Ghosts of Vasu Master, and Fugitive Histories.

identity, feminism, stereotype, patriarchy, Keywords: Gender, individuality

#### Gender Roles and Stereotypes:

Gender roles are determined by the many expectations that people, groups, and communities have of people based on their sex as well as by the values and beliefs that each culture holds regarding gender. Gender roles provide indications about the kind of behaviour that is thought to be proper for each sex and are the result of interactions between people and their settings. The views of culture on the differences between the sexes define appropriate gender roles. It is essential to understand the phrase "gender" in order to fully understand the term "gender roles." The term "gender" is sometimes mistaken for "sex." Gender and sex are distinct ideas. Sex is a biological concept that is based on a person's fundamental sex traits. Gender, on the other hand, refers to the meanings, values, and characteristics that people ascribe to different sexes. "A gender role, also known as a sex role, is a social role encompassing a range of behaviour and attitudes that are generally considered acceptable, appropriate, or desirable for a person based on that person's sex, Gender roles are usually centered on conceptions of masculinity and femininity, although there are exceptions and variations." ("Gender role")

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#### EDITOR DR. VAISHALI MESHRAM

#### Gender Equality (Issues and Challenges)

#### Human Rights and Domestic Violence of Women Dr. Premlata P. Kurhekar

#### Jawaharlal Nehru Arts, Commerce and Science College, Wadi, Nagpur Premlata78kurhe@rediffmail.com, Mo:9325070164

Women constitute half the world's population and are entitled to all human rights on an equal basis with men. The history of this discrimination is as old as the history of civilization itself. The women have suffered so much, for merely being women from all recognized social institutions that have existed so far that if we dare write a book on the tortures and cruelty, and biases they have faced, it may run into thousand volumes. If we try to trace the origin of this sorry state of affairs we will find that the discrimination has already started in its nascent stage.

#### Introduction:

Domestic violence in India includes any form of violence suffered by a person from biological relatives but typically is the violence suffered by a woman by male members of her family or relatives. Domestic violence is a worldwide problem that includes abuses of physical, emotional, and sexual violence in any form.

The right to equality between men and women in marriage and family life is also recognized in various human rights instrumentsincluding the universal declaration of human right the international covenant on civil and political rights the convention on the elimination of all forms of discrimination against women, the convention of the nationality of marriedwomen. And the convention on the consent of marriage, the minimum age for marriage, and registration of marriage. The convention on the elimination of all forms of discrimination, against women requires state parties to take appropriate measures to eliminate discrimination against women in all matters relating to marriage and family relations.

#### Definition:

As given main article protection of women from domestic violence Act 2005 domestic violence is defined as any act omission or conduct of the respondent shall constitute a domestic violence case,

1.Harms of injuries endanger health and safety. Life, limb, or wellbeingwhether mental or abuse verbal and emotional abuse or economic abuse. Shalini Yadav Abdelazim M. Negm Ram Narayan Yadava *Editors* 

## Wastewater Assessment, Treatment, Reuse and Development in India

Springer

### Sustainable Construction Practices for Residential Buildings to Reduce the Water Footprint



Vincet Tirth, Ram Karan Singh, Amit Tirth, Saiful Islam, and Manisha Bhatkulkar

Abstract The sustainable construction practices primarily include three aspects namely; the conservation and optimization of resources, waste management, and reduction of energy and water footprint. A large number of studies have been directed towards the construction practices adopted in different stages of building construction and its life cycle assessment. The present study is dedicated to the environment-friendly construction practices by optimizing the use of water during several construction phases of a reinforced cement concrete framed multi-story residential building constructed on a land of area 199 m<sup>2</sup>. The building was constructed in seventeen months in the Moradabad city of western Uttar Pradesh. The direct water footprint of the residential building has been estimated during different phases of construction. The methods have been suggested to reorder the construction stages in correlation with the ambient conditions to reduce water consumption, recycle the water used for caring and minimize the wastewater in washing and cleaning. The proposed water resource management strategy is expected to reduce the water footprint of building construction significantly, hence adding to sustainable construction practices.

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S Yadav et al. (eds.), Wastewater Assessment, Treatment, Reuse and Development in India, Earth and Environmental Sciences Library, h tps://doi.org/10.1007/978-3-030-95786-5\_14



EDITOR DR. VAISHALI MESHRAM

Gender Equality

#### Changing Status of Women in India Dr. Manisha Bhatkulkar Associate Prof. and Head Dept. of ZoologyJawaharlal Nehru Arts. Commerce and Science College, Wadi Nagpur Email- manishabhatkulkar@gmail.com

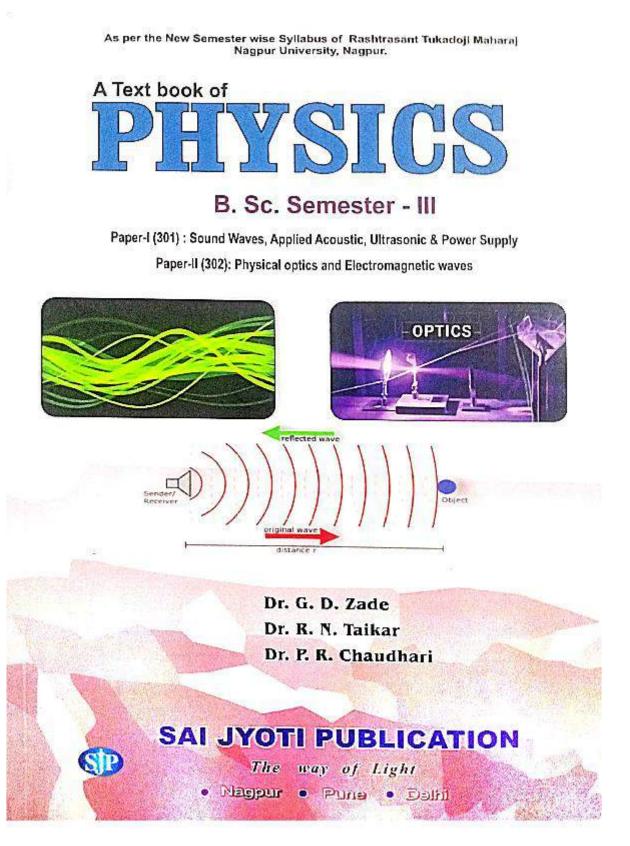
#### Introduction-

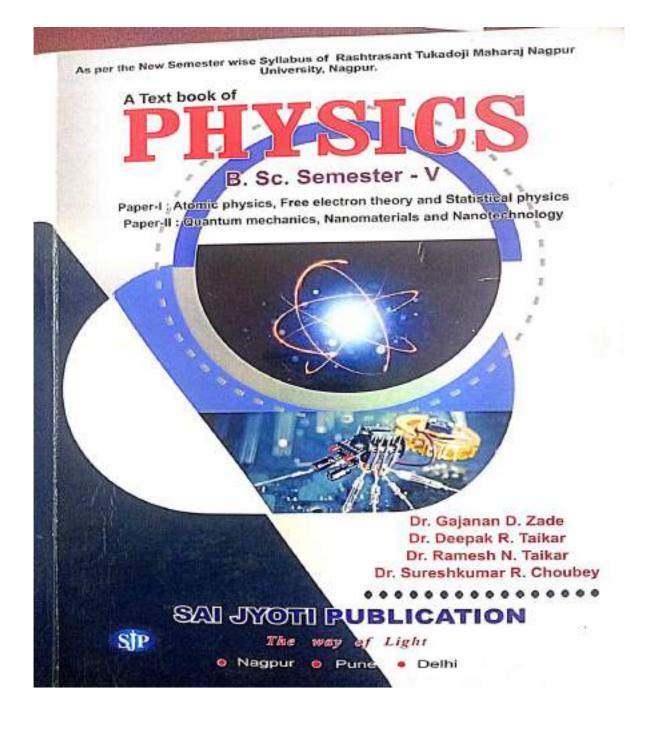
In India, the Social, Political and Economic status of women lebecoming higher as compared to Ancient and medieval periods. Today women's are enjoying more rights regarding social and legal helps and they have more freedom and become vocal to participants independenties in public issues. In spite of becoming independent they still have to face discrimination, harassment, humiliation and even exploited and dominated. In Ancient and Vedic periods women's were considered and treated equal to men.

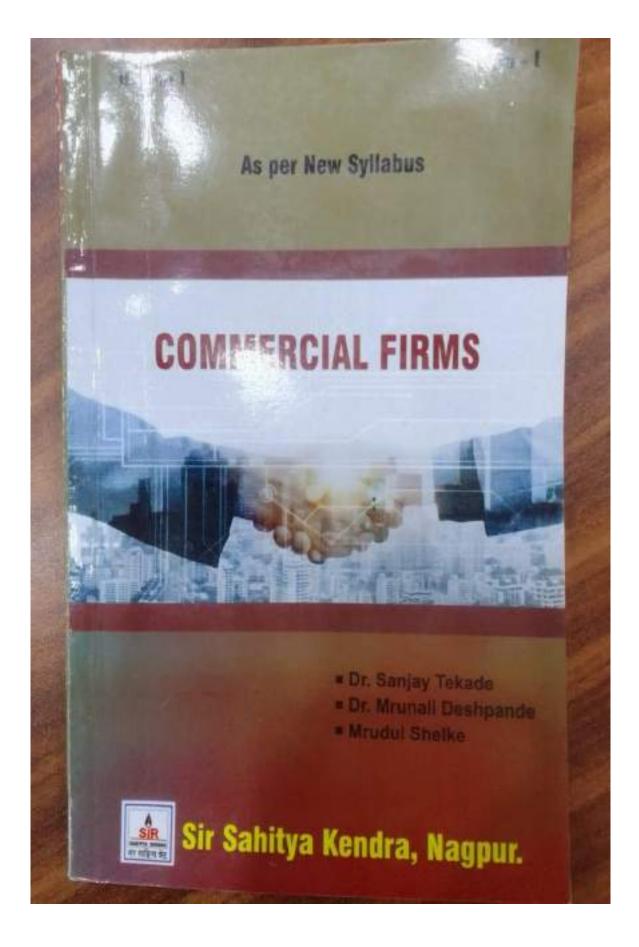
Women's in Ancient India were treated and considered to be personified with all divine virtues on earth. Women were considered base of domestic life as well as entire social organization. Many scholars at that time refer to religious scriptures to indicate that women have "Low status" unreliable etc. women were considered only to satisfy physical need importantly by Men in a society. Initially women never follow purdah system in society she also enjoy the right to select her som partner. Women previously enjoy education freely but she had were limited rights an ancestral property as wives or mothers.

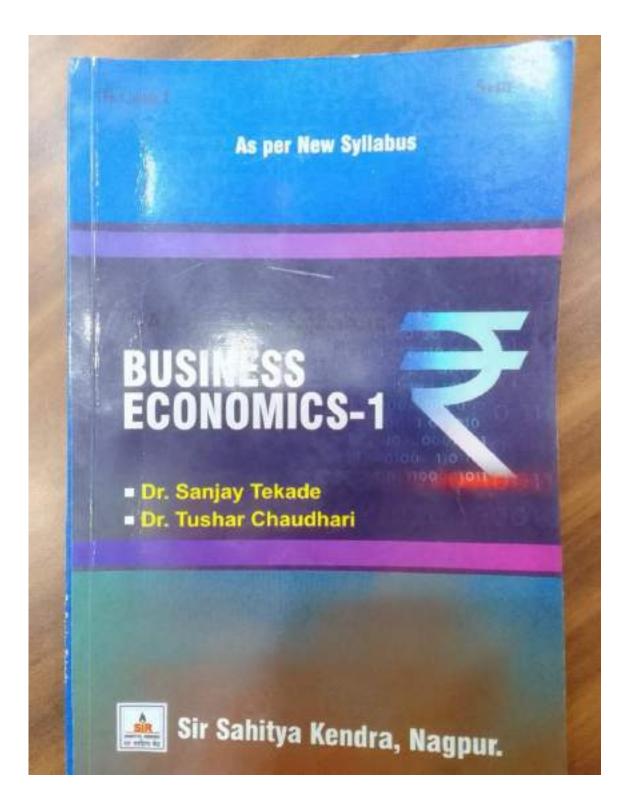
However she never serves and forces to earn wages. In a political sphere Women does not have any political voting rights nor they hold any political past as there were not allowed to enter in 'Sabha's 'and these assemblies used for gambling , drinking and other purposes.

In medieval periods during Brhmanical and Pauranic stages the women status was lowered by applying various restrictions. During this time 'Bal Vivah' prepuberty marriage came into existence Marrying to widow women was prohibited during this time, husbands considered as God for Women's, they also kept women's away and isolated frame education, sati system came into existence, women compulsorily follows purdah system in society. The system of polygyny was prevailing and women were not allowed to participate in sacrifices and prayers and readimposed on women especially due to rigid caste system arise by brhamanical austerity on the society. Somehow situation of women taking change due to some spiritual gatherings and gives women freedom in











S. No.	Name of Teacher	Title of Book published / Name of Authors	Name of publisher	National, International/ ISBN/ISSN	Year of publication
1.	(Miss.) M. M. Bhatkulkar (Zoology)	A Text book of Zoology (B. Sc. Semester-1)	Sai Jyoti Publication, Nagpur	ISBN-978-93- 91201-09-8	2021
2.	Dr. G. D. Zade (Physics)	A Text book of Physics (B. Sc. Semester-2)	Om Sai Publication, and Distribution Nagpur	ISBN-978-98- 91201-14-2	2021
3.	Dr. G. D. Zade (Physics)	A Text book of Physics (B. Sc. Semester-4)	Om Sai Publication, and Distribution Nagpur	ISBN-978-93- 91201-51-7	2022
4.	Dr. G. D. Zade (Physics)	A Text book of Physics (B. Sc. Semester-1)	Om Sai Publication, and Distribution Nagpur	ISBN-978-98- 91201-56-2	2021
5.	Dr. (Mrs.) C. S. Laddha (Botany)	Microbial Diversity and Technology (B. Sc. Semester-1)	Himalaya Publishing House, Nagpur	ISBN-978-93- 5596-510-3	2022
6.	Dr. N. C. Kongre (Chemistry)	A Test Book of Chemistry	Dnyan Path Publication Amravati	ISBN-978-93- 87278-87-5	2021

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Per the New Semester wise Syllabus (2021-22) of RTM Nagpur University, Nagpur

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## ZOOLOGY B.Sc. Semester - I

Paper - I : Life and Diversity of Animals - Nonchordates (Protozoa to Annelida) Paper - II : Environmental Biology

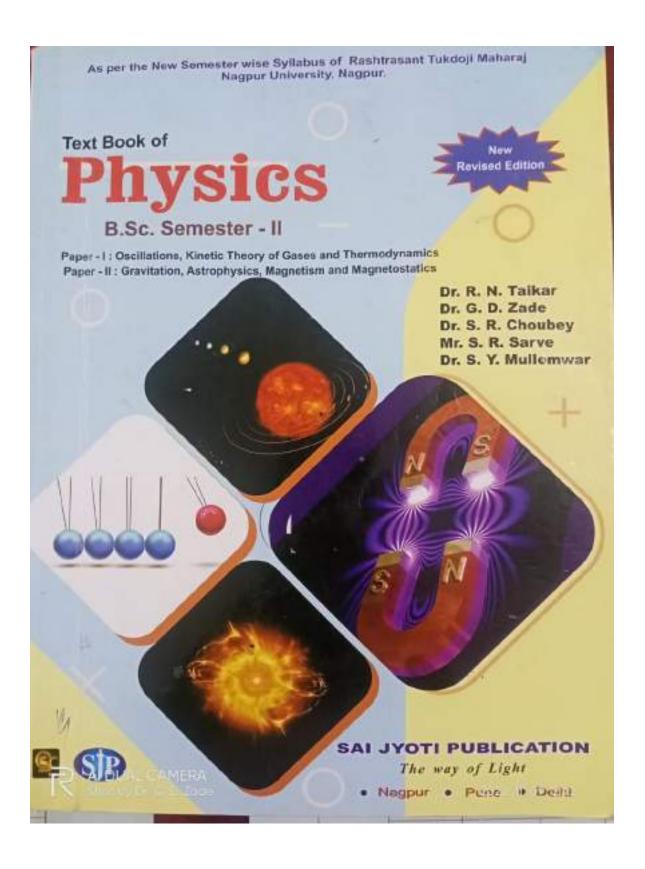
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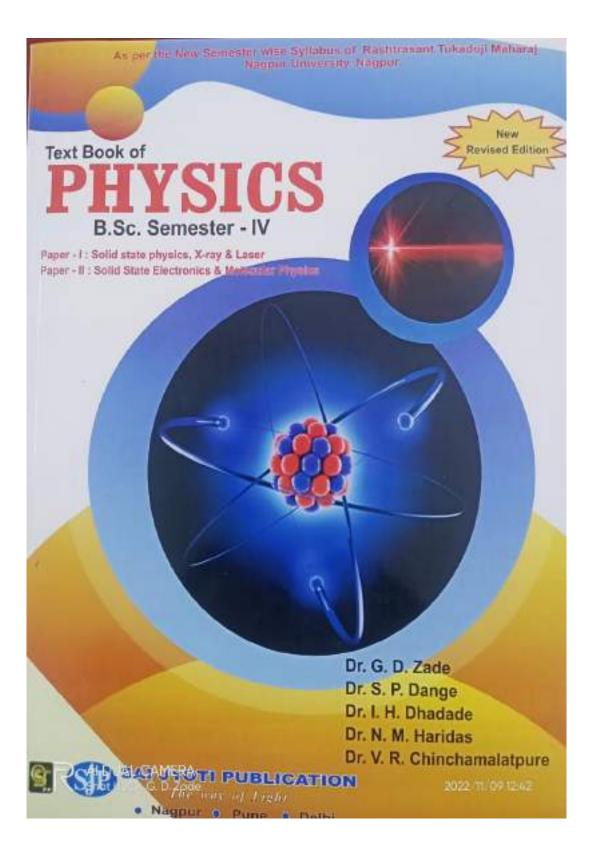
Dr. M. S. Ambatkar Dr. M. M. Bhatkulkar Dr. A. M. Watkar Dr. A. D. Tiple Dr. M. M. Meshram

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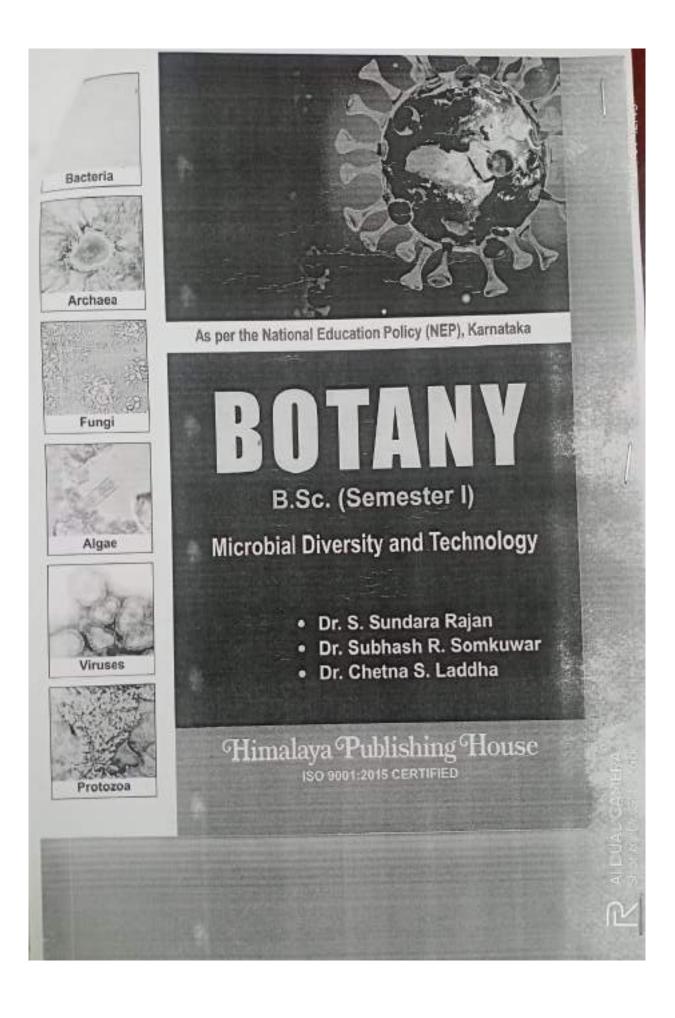
## Physics B. Sc. First year (Semester – I)

Paper - I (101) - (Properties of Matter and Mechanics) Paper-II (102) - (Electrostatics, Time varying fields & Electric Currents)

> Dr. G. D. Zade Dr. Ramesh N. Taikar Mr. Muneshwar S. Bisen



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As per Semester - wise New Syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

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Paper I - Organic Chemistry Paper II - Physical Chemistry

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Dr. N. J. Siddiqui Dr. D. M. Borikar

FREE INSIDE • Practical Manual • University Question Paper • Periodic Table



S. No.	Name of Teacher	Title of Book published / Name of Authors	Name of publisher	National, International/ ISBN/ISSN	Year of publication
1	(Mrs.) L. V. Phate (English)	Indian Literature and Translation, Reflection of Indianness in selected works of Githa Hariharan	Vanya publication, Kanpur	National	2021
2	Dr. G. D. Zade (Physics)	Luminescent materials in display and biomedical applications (Chapter 6, PP 116-130)	CRC Press, T and F Group, A SCIENCE PUBLISHERS BOOK, USA.	International ISBN- 9780367112127	Oct. 2020

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# Indian literature and Translation

Editor Dr. Varsha V. Vaidya Dr. Vishnu M. Chavan

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## The Reflection of Indianness in Githa Hariharan's work

Dr. Leena V. Phate

### Abstract

The present work is about the reflection of Indianness in the novels of Githa Hariharan. The work includes her four valuable novels such as *The Thousand Faces of Night, The Ghosts of Vasu Master, In Times of Siege* and *Fugitive Histories*. There is the distinctive quality of Indianness in all her works, be its theme, explorations of thoughts and ideas of Indianness. Most of her creations centre on Indian themes. Here, is an attempt to mirror Indianness, including the above mentioned four novels.

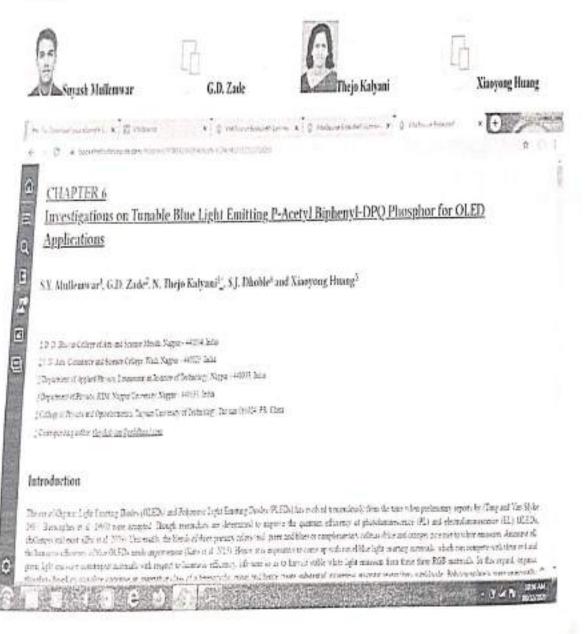
Keywords: Feminism, myth, siege, humanism, Indianness, fugitive

### Introduction

Githa Hariharan, an Indian voice which sounds the theme of Indianness. She was born in Coimbatore in 1954, a famous city of Tamil Nadu. She has travelled widely, grew up in Bombay and Manila, and later moved to the USA to continue her studies. Initially, she worked in Mumbai, Chennai and New Delhi as an editor in a publishing house, after returning to India in 1979 and later as a freelancer. Though having a multi-cultural experience, Githa Hariharan endeavours to chronicle multi-dimensional facets of Indian culture and society in almost all her writing. She is respected as a novelist of feminism, myth and legends, rituals, history, subalternity, cultural issues and humanism. Hariharan has discarded Eurocentric models and Investigations on Tunable Blue Light Emitting P-Acetyl Biphenyl-DPQ Phosphor for OLED Applications Chapter 6 (Oct. 2020). DOI: 10.10.019706439253344

In book: Laminescent Naterials in Display and Biomedical Applications (pp.115-130)

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## Investigations on Tunable Blue Light Emitting P-Acetyl Biphenyl-DPQ Phosphor for OLED Applications

5.Y. Mullemwar<sup>3</sup>, G.D. Zade<sup>2</sup>, N. Thejo Kalyani<sup>34</sup>, S.J. Dhoble<sup>4</sup> and Xiaoyong Huang<sup>5</sup>

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<sup>3</sup> College of Physics and Optoelectronics, Taiyuan University of Technology, Taiyuan 030024, P.R. China

#### Introduction

The era of Organic Light-Emitting Diodes (OLEDs) and Polymeric Light Emitting Diodes (PLEDs) has evolved tremendously from the time when preliminary reports by (Tang and Van Slyke 1987; Burroughes et al. 1990) were accepted. Though researchers are determined to improve the quantum efficiency of photoluminescence (PL) and electroluminescence (EL) OLEDs, challenges still exist. (Zhu et al. 2003). Universally, the blends of three primary colors (red, green and blue) or complementary colours (blue and orange) give rise to white emission. Amongst all, the luminous efficiency of blue OLEDs needs improvement (Kato et al. 2015). Hence, it is imperative to come-up with novel blue light emitting materials, which can compete with their red and green light emissive counterpart materials with respect to luminous efficiency, life time so as to harvest stable white light emission from these three RGB materials. In this regard, organic phosphors based on quinoline comprise an imperative class of a heterocyclic group and hence create substantial awareness amongst researchers worldwide. Poly(quinoline)s were principally reported (Stille 1981) by using Friedlander

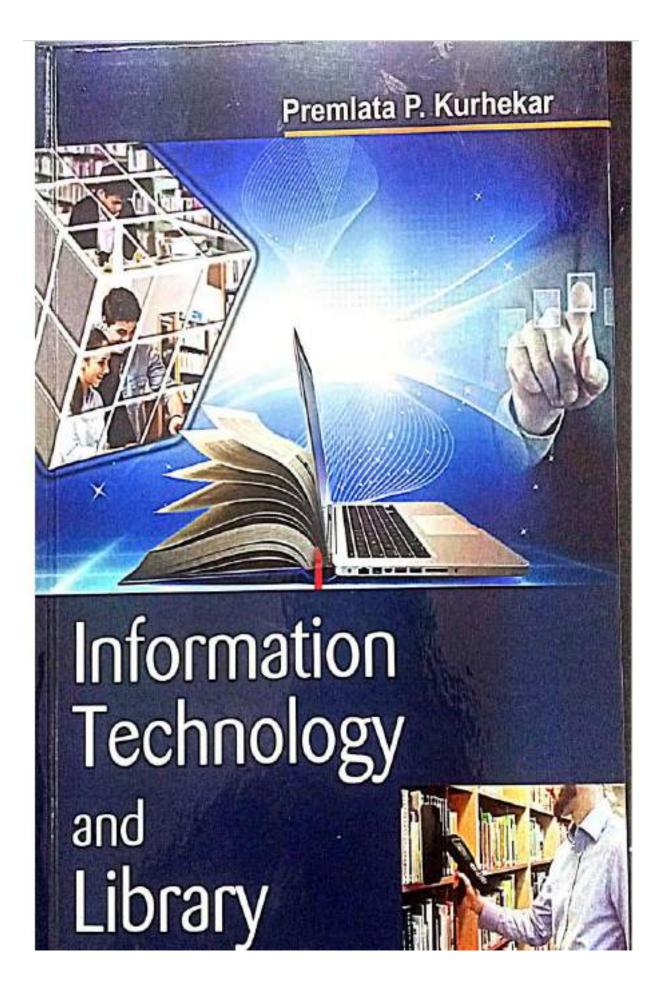
'Corresponding author: thejokalyani@rediffmail.com



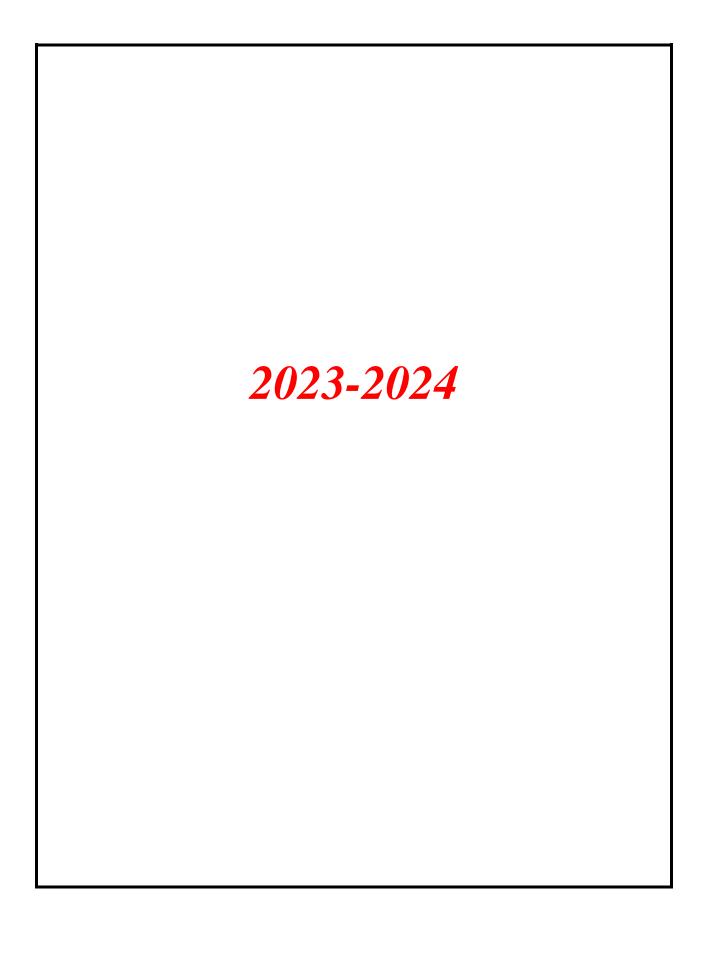
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# Papers published in National / International conference proceedings



## Research papers presented /paper in Proceedings in conferences during the academic sessions

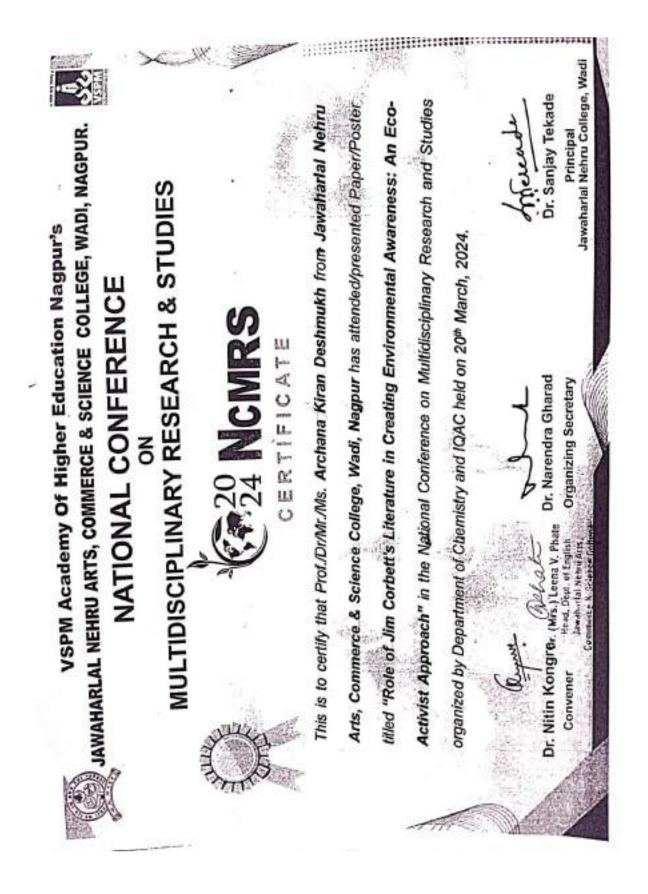
S. No.	Name of faculty member	Department	Title of research paper	Any other details
01	Dr. (Mrs.) L. V. Phate	English	Diasporic spaces and self- Exploration: Analysing Meena Alexander's Manhattan Music	National conference on Contemporary Aspects in Humanities, Social Science and Commerce by V. V. Arts, Commerce and Science College Samudrapur, on 3-4 Jan. 2024
02	Dr. (Mrs.) L. V. Phate	English	मानव्य शास्त्रातील समकालीन अभ्यास प्रवाह	National Conference on Multi interdisciplinary Subjects by Saibab Lok Prabhodan Kala Mahavidyalay Wadner on 31 <sup>st</sup> Jan. 2024
03	Dr. (Mrs.) A. K. Deshmukh	English	RoleofJimCorbett'sincreatingenvironmentalawareness;AnEco-ActivistApproach	National Conference on Research and Studies by J. N. College Wadi Nagpur on 20 <sup>th</sup> March 2024
04	Dr. (Mrs.) A. K. Deshmukh	English	The east and the west: A diasporic cosmopolitan experience in the mango season.	National conference on Contemporary Aspects in Humanities, Social Science and Commerce by V. V. Arts, Commerce and Science College Samudrapur, on 3-4 Jan. 2024
05	Dr. (Ms.) M. M. Bhatkulkar	Zoology	The study of impact of increasing environmental pollution on biodiversity	International conference on functional material by Nabira Mahavidyalaya Katol, Nagpur on 15-16 March 2024
06	Dr. (Ms.) M. M. Bhatkulkar	Zoology	An outlook on effects of climate change on fish biology	National multidisciplinary conference on emerging trends opportunities and challenges in higher education by S. V. N. M. Mahavidyalaya Pusad on 28 <sup>th</sup> Jan. 2023
07	Dr. (Ms.) M. M. Bhatkulkar	Zoology	Icthyofaunal diversity of Vena rever, Hingna, Dist. Nagpur	Biodiversity and wetland conservation by S.S.J College Arjuni (Morgaon, Dist. Gondia on 24 <sup>th</sup> Feb. 2023
08	Dr. (Ms.) M. M. Bhatkulkar	Zoology	Physicochemical studies doped polymer synthesis from amiline and sulfamilic acid for environmental applications	National conference on Green Eart – Clean earth by L. A. D. College Nagpur on 10 <sup>th</sup> Feb. 2024
9	Dr. G. D. Zade	Physics	Role of methods for the synthesis and characterization of phosphor materials for display devices	International conference on advancement in material science: Trends and application organised by science college parbhani on 25 <sup>th</sup> Jan. 2024

10	Dr. G. D. Zade	Physics	Spectroscopic investigation of novel Eu <sup>+3</sup> doped Na2LiAIF6 for solid state lighting applications	2 <sup>nd</sup> International conference on materials for sustainable development and technology by Central University Jammu on 1-3 May 2024
11	Dr. G. D. Zade	Physics	Wet chemically synthesized optical investigation of Tb <sup>+3</sup> /Eu <sup>3+</sup> activated /co-activated BaTiO3 phosphors by energy transfer mechanism	2 <sup>nd</sup> International conference on materials for sustainable development and technology by Central University Jammu on 1-3 May 2024
12	Dr. G. D. Zade	Physics	Energy transfer in Sr3CeO:Dy3+ phosphor between Ce4+ to Dy3+	National conference on multidisciplinary research and studies organised by J. N. College Wadi, Nagpur on 20 <sup>th</sup> March 2024
13	Dr. G. D. Zade	Physics	Comparative study of P-acetyl biphenyl-DPQ and P- acetyl biphenyl-CI -DPQ organic phosphors for OLED applications	National conference on multidisciplinary research and studies organised by J. N. College Wadi, Nagpur on 20 <sup>th</sup> March 2024
14	Dr. N. C. Kongre	Chemistry	Thermogravimetric analysis of copper polymer composite adsorbents synthesized material	International conference on functional material by Nabira Mahavidyalaya Katol, Nagpur on 15-16 March 2024

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#### The Study Of The Impact Of Increasing Environmental Pollution On Biodiversity Manisha Bhatkulkar

Jawaharlal Nehm Arts Commerce and Science College Wali Nagpur Mohareshica Email id - manishabhaikatkar@gmail.com

#### ABSTRACT

Each species found in an ecosystem has its role to play. The existence of every species is important. Each organism not only performs its functions but also helps other organisms to flourish Co-existence is an example of this. Second, the greater the diversity of an ecosystem, the more likely a species is to survive in adverse conditions and the greater its productivity. Or in other words, the loss of species will threaten the survival of the entire system. That is the more species in the ecosystem, the more stable that ecosystem is. Apart from environmental importance, biodiversity is also important from an economic point of view. Crop diversity is an important part of biodiversity, also known as agricultural biodiversity. Food crops, animals, forest resources, fish, and medical resources are some of the major economic products, which are available to humans as a result of biodiversity. Biodiversity refers to the diversity of living beings (plants and animals) that occurs in each region, country, continent, or globally. Under this, microorganisms to the whole living world are included. In this research paper, the effect of increasing environmental pollution on biodiversity has been studied.

Keywords: Ecosystem, Species, Environmental Pollution, Bio-Diversity, Bio-Rich, Genetic, Species And Ecosystem



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#### An Outlook on Effects of Climate Change on Fish Biology

Dr. Manisha Bhatkulkar

Associate Professor and Head Department of Zoology, Jawaharlal Nehru Arts, Commerce and Science College, Wadi, Nagpur, Maharashtra, India

#### ABSTRACT

climate extrade is anticipated to have an effect on any person organism through all lifestyles stages, thereby affecting population of species, groups and the functioning of ecosystems. The results of weather extrade may be direct, via adjustments in distinct bedily phenomena and related phonologies, or on the whole oblique and mediated via direct results on key stone species which extrade the composition and dynamic coupling of any environment. Due to speedy development within side the improvement of its lifestyles fashion with the assist of technological know-how and technology, this has inflicting, outstanding harm to the encircling surroundings. The careless mind-set closer to the harms inflicting to the encircling surroundings has commenced to repay with inside the shape of unusual climatic phenomena like common floods and droughts, air pollution, abnormal climate phenomena like El-NINO etc. The harm due to the anthropogenic sports to the surroundings is extensively felt and accepted, because the consequences of that harm are too distinguished to be omitted with inside the shape of worldwide weather adjustments. Some most important phenomena due to weather extrade encompass worldwide warming, ozone depletion, species extinction etc., which in turn have destructive effects on each biotic and abiotic factors of all different ecosystems and at the biosphere as a whole. Keeping in view the data that water occupies approximately 2/3rd of the earth's general floor vicinity and it bureaucracy the only habitat for fishes, adjustments in weather at one end in adjustments in water chemistry like boom in common water temperature, acidity, salinity, destructive climate phenomena etc. which make it tough for the fish fauna to live to tell the tale in such situations and end result both of their demise or dispersal to new habitat sites. Fish being poikilothermic isn't capable of alter its frame temperature therefore main to harm of frame additives like proteins, inflicting thermal stress.

Keywords: Extrade, environmental, temperature, phenomena.

#### I. INTRODUCTION

Climate extrade is the version withinside the earth's worldwide weather or withinside the nearby weather over a time frame and it includes adjustments withinside the variability or nation of the ecosystem over intervals of a long time to hundreds of thousands of years (Mohantyet al., 2010). It is likewise described as a extrade withinside the statistical properties, mainly its suggest and spread, of the weather device, while taken into consideration over lengthy intervals of time no matter the purpose. It includes the shift in international climate phenomena related to an boom in worldwide common temperatures, that is extra particularly called

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(148 All J. D. Premiata P. Kurthekar Convenor, NCBWC-2023anahal Nehru Arts Con Principal Inn Prof. Ishwar S. Mohurle has Participated / Presented paper / Poster / Delivered keynote address / Invited talk in the "National Conference on Biodiversity and Wetland Conservation (NCBWC - 2023)" held on 24th February 2023 at Shivprasad Sadanand Jaiswal College, Arjuni/Morgaon, Dist. Gondia. Shivprasad Sadanand Jaiswal College, Arjuni/Morgaon, Dist. Gondia He/She has Presented Paper / Poster Entitled Ic thy of a unal Olversity This is to certify that Prof. Dr. Mr. Ms. Manisha Bhatkulkas of Jawaha & All Nehru College, Wadi Nagpus Department of Zoology & Internal Quality Assurance Cell Foundation for Economic and Ecological Development (FEED) **BIODIVERSITY AND WETLAND CONSERVATION** The Food of the state of the st Vena Hiver, Hingha, Dist. Nagpur Hirwad Bahuuddheshiya Sanstha, Gondia Navegaon Nagzira Tiger Reserve (NNTR) NAAC RE-ACCREDITED WITH 'B' GRADE Certificate NATIONAL CONFERENCE ON In Collaboration with • Shri Durga Shikshan Sanstha's Hosted by r. G. T. Paliwal Organizing Secretary NCBWC-2023 d

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#### International e-Conference On "Advancements in Material Science: Trends and Applications (ICAMSTA-2024)" Thursday, January 25, 2024.

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Sr. No. Oral Presentation Number		Abstract Title	Authors Name
1.	IC-OP-01	Influence Of Indium Substitution On The Structural Properties Of Zinc Oxide Thin Films	Dr. Syed Ghaose Ibrahim
2.	IC-OP-02	Polyamiline Material For High-Performance Supercapacitor Application By Oxidative Polymerization Method	Mrs.Tangevva Hanamant Bajantri
3.	IC-OP-03	Chemical Synthesis Of Grain-Like Nio Thin Films For	Mr. Kunal Rajabhau Sali
		Supercapacitor Applications	Dr. Sunil Rameshgir Gosavi
4.	IC-OP-04	Effect Of Annealing On The Structural, Morphological, And Optical Properties Of SnO <sub>2</sub> Thin Films Prepared By Spray Pyrolysis Method	Mr Swapnil Santosh Tayade
5	IC-OP-05	Structural And Electrochemical Analysis Of MnO <sub>2</sub> For Supercapacitor Applications	Sangram Anil Mone
6.	IC-OP-06	Ferroelectric PVDF/MWCNT Nanocomposites By Pld Process-	Dr. Chetan V. Chanmal
7.	IC-OP-07	Synthesis And Characterization Of Mgnon Doped Nano Solid Polymer Electrolyte System	Dr.R. R. Risodkar
8.	IC-OP-08	Synthesis, Characterization Mixed Oxide Nanoparticles And Their Gas Sensing Application	Dr. Sachin Vasant Bangale
9,	IC-OP-09	Advancements In Non-Destructive Testing Of Materials Through Double Exposure Digital Holographic Interferometry	Dr Prashant P Chikode
10.	1C-OP-010	Kinetic Study Of 4-Thiazolidinones Derivatives Catalyzed By Schiff Bases And Thioglycolic Acid	Santosh Ramchaodra Kshirsagar
11.	IC-OP-011	Determination Of Thermodynamic Parameter For Oxidation Of 2-Furoic Carboxylic Acid Hydrazides By Using Thallium (Iii) In Acidic Medium-A Kinetic Approach.	Mr.Samadhaa Hanumant Nikalaje
12.	IC-OP-012	Advancements In Material Science: Trends And Applications In Medicine And Pharmaceutical Health Care Unit	Mr. Sarang Sunil Mahamuni
13,	IC-OP-013	Removal Of Pb <sup>+2</sup> In Wastewater Via Adsorption Onto An Activated Carbon Produced From Agricultural Wast Material	Dr. Sudhir Sharadrao Hunge
14	IC-OP-014	Role Of Methods For The Synthesis And Characterization Of Phosphor Materials For Display Devices	Dr. Gajanan D. Zade
15.	IC-OP-015	Soft Chemical Synthesis Of A Changed Morphology Supercapacitor Electrode Made Of PANI-Doped Nicossa Composite	Mr. Suraj Dilavar Patha
16.	IC-OP-016	Utilizing Nano-Materials For The Elimination Of Heavy Metals In Wastewater	Deepmala Dalal
17.	IC-OP-017	Characterization And Antibacterial Activity Of Flower- Like ZnO Thin Films Grown By Low Cost SILAR Technique	Tushar Rajendra Wagh
18.	IC-OP-018	Microwave Assisted Combustion Synthesis And Characterization Of Magnesium Zine Ferrite	Dr. Shubhangi B. Nande
19,	IC-OP-019	Phase Transfer Of D-MnO: Nanotlakes From Aqueous To Organic Medium Using Di Alkyl Phosphate Extractor	Ms. Bhosale Mayura
20.	IC-OP-020	A Review on Activated Carbon Synthesis from Organic Waste for Sustainable Energy Solutions	Uttamrao Mangal Dr Heena

#### International e-Conference on "Advancements in Material Science: Trends and Applications" (ICAMSTA-2024) "Role of methods for the synthesis and characterization of phosphor materials for display devices" Gajanan D. Zade<sup>\*</sup>

\*Department of Physics, Jawaharlal Nehru Arts, Commerce & Science College Wadi, Nagpur, 440023. India.

zadegajanan@gmail.com

#### ABSTRACT

Phosphor materials were used in all the display devices by various fabricating. industries. The materials used for the display devices are of the order of nano size particles (10°m). The physical, optical and chemical properties of the nano materials are totally depends on the size of the particle. As the size changes its properties also change. So, the synthesis method is very much important to get uniform size of the particle, proper structure, and required composition. There are two types of phosphor materials used in display devices. They are (1) Synthesis of organic phosphor materials and (2) Synthesis of inorganic phosphor materials. In inorganic phosphor materials there are various methods for the synthesis of nano particles. Some of them are - chemical reduction method, solyothermal and hydrothermal method, sol-gel method, soft and hard method tempting method, reverse micelle method, seeding method, precipitation method etc. The route of synthesis in inorganic methods are easy and different than the synthesis of nano materials in organic method. There are limited methods for the synthesis of organic nano phosphors used in display devices. One of the method for the synthesis of organic nano phosphors is the Friedlander condensation reaction method. This is the simplest methods among the several reported methods for the synthesis of organic quinolone and its derivatives. The classical Friedlander reaction reported by Paul Friedlander in 1882 used 2-aminobenzaldehyde with acetaldehyde in the presence of sodium hydroxide. Generally, Friedlander reaction is carried out by reflecting aqueous or alcoholic reaction mixture in the presence of a base or an acid or by heating reaction mixture at higher temperature up to 140°C without catalyst. Lewis acids were also used commonly and found efficient. Friedlander condensation reaction method gives excellent results with respect to the uniform particle size, crystal structure and chemical composition. The uniform size of the nano phosphors play an important role in display devices and hence proper synthesis route must be selected to get the targeted result. The synthesised phosphors is tested and studied by taking various characterizations for further studies. The important parameters needed to be determined are summarised below-

Entity characterized	Technique suitable
Size (structural properties)	TEM, XRD, DLS, NTA, SAXS, SEM, UV-VIS, NMR
Shape	TEM, HRTEM, AFM, EPLS
Element chemical composition	XRD, XPS, ICP-MS, NMR
Crystal structural	XRD, EXAFS, HRTEM, ELECTRON DIFFRACTION
Size distribution	DCS, DLS, SAXS, NTA
Surface area	BET, LIQUID NMR
Optical properties	UV-VIS-NIR, PL, EELS-STEM
Structural defects	HRTEM, EBSD
Magnetic properties	SQUID, VSM, MFM, FMR, XMCD
3D visualization	3D-TOMOGRAPHY, AFM, SEM
	Size (structural properties) Shape Element chemical composition Crystal structural Size distribution Surface area Optical properties Structural defects Magnetic properties

Keywords: Phosphor composition, Synthesis route, Characterizations, Applications.

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2 <sup>nd</sup> International Conference on Materials for Sustainable Development and Technologies (ICMSDT - 2024) 01 - 03 May, 2024 rtment of Nano Science and Materials, Central University of Jammu	This is to certify that Prof./Dr./Mr./Ms. Gradenue D Zade, Jouoshaulal Nehue College Wadi. has delivered a Oral presentation/ Poster presentation/ Participated in the 2 <sup>rd</sup> International Conference on Materials for Sustainable Development and Technologies (ICMSDT - 2024)" held one1-3 May, 2024 at the Department of Nano Concernent Materials for the Concernent Materials for the Concernent Materials for Sustainable Development and Technologies (ICMSDT - 2024)" held one1-3 May, 2024 at the Department of Nano	• • • • • • • • • • • • • • • • • • •
Pepartment of Nano S	This is to certify that Prof./Dr./Mr./Ms. Garjawaw D Zade, Jaud delivered a Oral presentation/ Poster presentation/ Participated in the 2 Sustainable Development and Technologies (ICMSDT - 2024)" held	(Convener)

## Spectroscopic Investigation of novel Eu<sup>3+</sup> doped Na<sub>2</sub>LiAlF<sub>6</sub> for solid state lighting applications

G. D. Zade1\*, Sanket J. Helode2 and S. J. Dhoble2

<sup>1</sup> Department of Physics, Jawahharlal Nehru College, Wadi, Nagpur-440023, India <sup>2</sup> Department of Physics, R. T. M. Nagpur University, Nagpur-440033, India

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Lminescent properties of Rare earth activated inorganic compounds are most investigated due to its excellent luminous efficiency, high chemical and thermal stability as well. In this paper we report the novel Na2LiAlF6 luminescent host material activated with Eu 3+ rare earth ions. The proposed luminescent material is synthesized by the low temperature wet chemical method. Optical properties of the material were studied briefly with the inclusion of excitation and emission spectral studies. A TG/DTA characterizations has been done for the analysis of thermal stability and change in sample weight as a function of temperature. In the PL investigations excitation band is observed in the range of 350 nm to 550 nm range having intense peaks due to the major transitions in between 7F0-5L6 and  ${}^{7}F_{0} - {}^{5}D_{1}$ . Whereas the emission band is observed in the range of 570 nm to 640 nm having two peaks due to 5D0 to 7F1 and 7F2 transitions. Effect of concentration quenching studied briefly. Color temperature has also been calculated for the prepared phosphor which demonstrates that the prepared red emitting phosphor is useful in various device applications such as phosphor converted White light emitting diodes (PC- WLED's), solid state lighting, display technology etc.

Keywords: Photoluminescence; lamp phosphor; WLED; XRD; Wetchemical

Poster Presentation:47 . Theme: Nanomaterials Synthesis and Characterization

### Wet chemically synthesized optical investigation of Tb<sup>3+</sup>/Eu<sup>3+</sup> activated/co-activated BaTiO3 phosphors by energy transfer mechanism G. D. Zade<sup>1</sup>\*, A. R. Kadam<sup>2</sup>, S. J. Dhoble<sup>3</sup>

<sup>1</sup>Department of Physics, Jawahurlal Nehru College, Wadi, Nagpur- 440023, India <sup>2</sup> Department of Physics, School of Basic and Applied Sciences, M.G.M. University, Chhatrapati Sambhajinagar (Aurangahad) - 431003, India <sup>1</sup> Department of Physics, R. T. M. Nagpur University, Nagpur - 440033, India

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In last few years rare earth activated inorganic phosphors comes into trend in the field of display devices. In the proposed research article, Tb3+, Eu3+ activated/co-activated BaTiO3 phosphor prepared by wet chemical method. Through the use of XRD and Rietveld refinement, the phase identity and crystal structure of produced phosphor are examined. SEM is used to examine the morphological analysis and elemental analysis of the suggested phosphor in conjunction with elemental analysis of the sample.In photoluminescence spectra (PL), Under 265 nm, 395 nm and 465 nm excitation, the synthesized Tb<sup>3+</sup>, Eu<sup>3+</sup> activated/co-activated BaTiO<sub>3</sub> phosphors exhibited an orange emission peak located 595 nm and a red emission peak located 614 nm due to the  ${}^{5}D_{0} \rightarrow {}^{7}F_{1}$  and  ${}^{5}D_{0} \rightarrow {}^{7}F_{2}$  transitions of Eu<sup>3+</sup> ions while doping of Tb<sup>3+</sup> ions gives emission in green region. On satisfying the spectral overlap criteria, the co-doping of both the rare earth ions is done in the host matrix and resultant PL shows that the sample shows color tunability from green to red region. These all results confirm that the prepared phosphor is potential candidate for WLEDs and display applications.

Keywords: wet chemical; lamp phosphor; LEDs; color tunability; energy transfer.

### Wet chemically synthesized optical investigation of Tb<sup>3+</sup>/Eu<sup>3+</sup> activated/co-activated BaTiO<sub>3</sub> phosphors by energy transfer mechanism

G. D. Zade1\*, A. R. Kadam2, S. J. Dhoble3

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Keywords: wet chemical; lamp phosphor; LEDs; color tunability; energy transfer.

## Energy transfer in Sr,CeO,:Dy" phosphor between Ce" to Dy" ions

R. S. Ukare, G. D. Zade\* and S. J . Dhoble\*

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#### Abstract

Sc.CeO, is the most famous tunable multicolor emitter with rare earth doping and it is very popular for superior photolaminescence (PL) and cathodoluminescence properties which makes them useful as important components of color emission in plasma display panel (PDP), field emission display (FED) and for lamps. Thus, we prepare superfine blue light emitting phosphor Sr.CeO, using oxalate precipitation which produces high degree of homogeneity conformed by x-ray diffraction pattern. The intensity of Sr.CeO, sample by Dy" doping found to shifted from blue region to yellow region, since Sr,CeO, exist in mixed state of cubic phase in which energy transfer (ET) explain by two ways, firstly by considering conversion of cerium ions from Cen to Cen in which Cen just gain the electron from oxygen atoms and convert to Cen ions and reduce CT transitions states between Ce<sup>o</sup>-O<sup>t</sup>. And secondly transition of electrons from Ce" to Dy" ions, where excited state of Ce' ions and upper excited states of Dy" ions are approximately matched which is responsible for resonance condition and excited state of Dy<sup>5</sup> ions emit yellow color and excited state of Ce<sup>6</sup> is responsible for emission in blue color region. Overlap of emission spectra of sensitizer (Dy") and activator (host) are most responsible for resonance ET. Dexter's energy transfer formula and Reisfeld's approximation conditions is used to explain possible ET between Cen to Dyn ions.

Keynotes: Sr<sub>2</sub>CeO<sub>4</sub> PL, ET between Ce<sup>11</sup> to Dy<sup>11</sup> and XRD.

#### Comparative study of P-Acetyl Biphenyl-DPQ and P-Acetylbiphenyl-Cl-DPQ Organic Phosphors for OLED Applications.

#### S. Y. Mullemwar", G. D. Zade', S. J. Dhoble'

<sup>1</sup> Department of Physics, D. D. Bhoyar College of Arts and Science Mouda, Nagpur, Maharashtra, India;
<sup>2</sup> Department of Physics, J.N. Art's, Commerce and Science College, Wadi, Nagpur, Maharashtra, India;
<sup>3</sup> Department of Physics, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra, India.

#### Abstract

Two novel P-Acetyl Biphenyl-DPQ and P-Acetylbiphenyl-CI-DPQ Organic Phosphors was synthesized by Friedlander condensation reaction at 140° C. To check its suitability for fabricating OLEDs the synthesized organic phosphors are assessed by various characterization techniques such as Fourier Transform Infrared (FTIR) spectroscopy, H-NMR, C-NMR, Thermo gravimetric/ Differential Thermal Analysis (TGA/DTA), optical absorption spectra and photoluminescence (PL) spectra in solid state. The synthesized phosphors are molecularly doped in Polystyrene matrix different wt% to explore its compatibility with polymers. FTIR and NMR confirm the structural formation of the desired complex. TGA and DTA reveal appreciable thermal stability and melting point. Absorption spectra were employed to study optical transitions in the synthesized phosphors at 10° M concentration in various organic solvents. The energy band gap of the synthesized organic phosphors was calculated in chloroform, dichloromethane, acetie acid and formic acid, respectively. PL spectra of the phosphor in solid state, various organic solvents and in polystyrene reveal emission in the range of 383-495 nm, under excitation wavelength ranging between 360-419 nm. Stokes shift of about 63-66 nm was observed. CIE coordinates reflect that the synthesized organic phosphors can be used as an emissive material in the range of blue to near UV emission in the fabrication of blue and near UV -OLEDs.

Keywords: - Friedlander condensation reaction, OLEDs, Solid state lighting.

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## 2022-2023

S. No.	Name of faculty member	Department	Title of research paper	Any other details
01	Dr. (Ms) M. M. Bhatkulkar	Zoology	Fish diversity of vena river, Hingna, Dist Nagpur	National conference on New frontiers of biological sciences organized by Shivaji science College Pauni, Bhandara. (28 April 2023)
02	Dr. (Ms) M. M. Bhatkulkar	Zoology	Role of autonomous colleges in implementation of NEP	National seminar on NEP: challenges and opportunities for higher education by G. S. Commerce and economics Nagpur on 30 <sup>th</sup> July 2022.
03	Dr. (Ms) M. M. Bhatkulkar	Zoology	Ichthyofaunal diversity of Vena River, Hingna, Dist. Nagpur	National conference on biodiversity and wetland conservation by S. S. Jaiswal college Arjuni Morgaon, Dist Gondia on 24 <sup>th</sup> Feb. 2023.
04	Dr. S. K. Shembekar	Commerce	Role of environment protection in the effective sustainable development of the Nation	Paper published in Journal of management and Entrepreneurship, ISSN-2229-5348 (April June 2023)
05	Dr. S. K. Shembekar	Commerce	The clash between RTI and the right to privacy	Paper published in International Peer Reviewed Multidisciplinary E Journal, ISSN- 258-9173 (April 2023)
06	Dr. S. S. Tekade	Commerce	Role of environment protection in the effective sustainable development of the Nation	Paper published in Journal of management and Entrepreneurship, ISSN-2229-5348 (April June 2023)
07	Dr. N. C. Kongre	Chemistry	A review on biosynthesis of nano particles using plant extract	International conference on recent trends in multidisciplinary research, organised by Dr. Khatri Mahavidyalaya Chandrapur & SSES AMTS Science college Nagpur 14 <sup>th</sup> Jan. 2023 (Oral)
08	Dr. S. S. Khadse	Physical Education	Trends and growth in physical education and world of sports	75 <sup>th</sup> years of Indian Independence status and goals by Yashwant Mahavidyalaya Seloo, Wardha. On 22 <sup>nd</sup> Dec. 2022. (ISBN-978-93-95494-12-0)
09	Dr. (Ms) P. P. Kurhekar	Library	National education policy challenges and opportunities in higher education	National seminar on NEP challenges and opportunities for higher educations by G. S. College of Commerce and Economics Nagpur on 30 <sup>th</sup> July 2022
10	Dr. (Ms) P. P. Kurhekar	Library	Use of ICT for library activities and services	75 <sup>th</sup> years of Indian Independence status and goals by Yashwant Mahavidyalaya Seloo, Wardha. On 22 <sup>nd</sup> Dec. 2022. (ISBN-978-93-95494-12-0)
11	Dr. (Mrs.) A. K. Deshmukh	English	In Indian English literature from pre to post independence era	75 <sup>th</sup> years of Indian Independence status and goals by Yashwant Mahavidyalaya Seloo, Wardha. On 22 <sup>nd</sup> Dec. 2022. (ISBN-978-93-95494-12-0)

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## Proceeding of National Conference on New Frontiers of Biological Sciences (NCNFBS-2023)

in the pond. The investigation shown that this water body is very much polluted which results to the eutrophic condition because of the anthropogenic activities by the people.

Keywords: Eutrophication, Bioindicators, Pollution, Chirebandi Pond.

AB 22]

## FISH DIVERSITY OF VENA RIVER, HINGNA, DIST-NAGPUR

Dr. Manisha Bhatkulkar<sup>1</sup> and Varsha Gharpure<sup>2</sup> <sup>1</sup>Associate Prof. and <sup>2</sup>Head Dept. of Zoology <sup>1</sup>Jawaharlal Nehru Arts, Commerce and Science College, Wadi Nagpur <sup>2</sup>Jawaharlal Nehru Vidyalaya and Junior College, Wadi Nagpur Email- <u>manishabhatkulkar@gmail.com</u>

#### ABSTRACT:

Water is essential for the survival of all kind of Organisms on the Mother Earth and has most significance for human for adequate life. Vena river is the natural and exclusive source of fresh water in the Vidharbha region. To evaluate the sustainability of water for aquatic life and drinking purpose. Fish plays an important role from ancient times in providing protein rich and less fat diet to the mankind. India stood in seventh position among the fish producing countries of the world. The present piece of work has been made to investigate the Icthyofaunal diversity and some species of fishes were recorded during the study.

Keywords-lcthyofaunal, sustainability, diversity.

#### AB 23]

## DYE YEILDING PLANTS AND THEIR MEDICINAL VALUES- STUDY FROM CHANDRAPUR DISTRICT OF MAHARASHTRA

<sup>1</sup>Nannaware P. E., <sup>2</sup>Ghule S.M. and <sup>3</sup>Jakhi P. S. Department of Botany, Institute of Science, Nagpur <sup>1</sup>poojanannaware2912@gmail.com <sup>2</sup>sakshighule09@gmail.com <sup>3</sup>jakhips@gmail.com

#### ABSTRACT:

Since ancient period most of the requirements of people fulfilled from surrounding. Chandrapur important southeast district of Maharashtra predominated with different types of forest and various types of industries. Most of the population of Chandrapur district scattered in the small villages in the areas adjoining to forest. In some of the tehsil like Rajura, Jivati, Korpana, Gadchandur population is concentrated in the

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Organized by Internal Quality Assurance Cell and Biological Society, Science College Paum, Bhandara (M.S.) [32]

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#### JOURNAL OF MANAGEMENT AND ENTREPRENEURSHIP

#### ISSN : 2229-5348 UGC Care Group 1 Journal ROLE OF ENVIRONMENT PROTECTION IN THE EFFECTIVE SUSTAINABLE DEVELOPMENT OF THE NATION

Dr. S. K. Shemhekar

Department of Commerce, Jawahailal Nelmi Arts Commerce & Science College Americati Road, Wodi, Nagpar (44092) (M S )

#### Dr. Sanjay Tekade

Department of Commence, Jawaharlal Nebra Aits Commence & Science College Amravati Road, Wadi, Nagpur - 440923 (M.S.)

#### Abstract :

Globally, sustainability had more importance. The countries are progressing rapidly. The economic development and the infrastructural development is getting momentum. Due to this ever growing development, environment is suffering and there are many impacts of environmental damages on the nation. In view of this; all nations should strive for the environment protection while development. This paper focuses on the role of environment in sustainable development.

Keywords : sustainable development, environment protection, economic development

#### Introduction

The world is changing, economic development is taking place in tremendous speed due to that the problem of environmental pollution and ecological damage has become a common concern across the world. To cope with the issue of environmental damage, all must atrive to protect the environment, and enterprises should increase their investment in environmental protection and actively assume environmental responsibility while developing their profit. With the increasing awareness of environmental protection in India, the participation of organizations in environmental protection has received significant attention from the government, stakeholders, and the public and attracted the attention of investors who seek references for their investment decisions. Thus there should be involvement of all citizens, corporate, and government in the environment protection so that we can achieve sustainable development goal.

#### Environment Protection

Environment protection and sustainability are harmonious and sustainability can be achieved by protecting our natural resources.

#### Sustainable Development

Sustainable development has a primary importance as the key to future use and management of finite world resources. It recognizes the need for development opportunities while maintaining a balance between these and the environment. As stated by the UN Brontland Compression in 1987, sustainable development should "meet the needs of the present generation without compressing the ability of future generations to meet then own needs, encompresses of p keeping population densities below the carrying capacity of a regime, facilitating the renewal of renew able resources, conserving and establishing priorities for the use of non-renewable resources, and keeping convironmental impact below the level required to allow affected systems to recover and continue to evolve". Environmental austainability can be viewed as halancing the "three pillars" of economic and social development with environmental protection.

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## THE CLASH BETWEEN RTI AND THE RIGHT TO PRIVACY

Dr. Subhash K Shembekar Associate Professor. Jawaharlal Nehru Art's,Commerce and Science College Wadi, Nagpur

Rahul Suresh Dolfode Assistant professor, Jawaharlal Nehra Art's,Commerce and Science College Wadi, Nagpur,

#### Introduction:

Volume - 4 (2023)

It is quite interesting how two of the most cherished rights, The Right to Information and The Right to Privacy, though being poles apart, and contradictory and antagonistic to each other, still exist together, complementary to each other, in the Indian Legal System. Both are two essential rights for the survival of a human being in the rapidly advancing, modern and technical world - where, the protection of an Individual's privacy and Security are becoming a matter of concern. Though not explicitly mentioned under the Constitution of India, it was through various judgements of the apex court, held that, both the rights are a part of the fundamental rights - wherein, The Right to Information stands as a part of Article 19(1)(a) -Right to freedom of speech and expression, and The Right to Privacy holds a position under the provision, which is also known as the Heart of the Indian Constitution - Article 21: Right to Life.

The privacy of the individual is being increasingly challenged by new technologies and trends in the society. In such a circumstance, where, it becomes of significance to choose between two essential rights - which one do we choose and how?

This paper deals with third party information, which includes personal information. For a biological person, the protection of Right to Privacy is available under Article 21 of the Constitution of India. Though such protection is not available to other kinds of Third party information, legal right conferred by RTI Act and other Statutes are available to those third parties. This aspect is as important Right to Privacy. The lacuna present in RTI Act with reference to this type of personal information is also present and equally effecting the interests of third parties in the other types of third party information. The problem needs to be plugged in both the cases. In this paper, an attempt has been made to underline the importance of both the rights, i.e., The Right to Information and The Right to Privacy, and the various conflicts concerning their relationship, and possible solutions to the issues concerned, after an analysis.

#### 2. The Right to Information :

#### 2.1. What is Information?

"Information is the resolution of uncertainty; it is that which answers the question of "what an entity is" and thus defines both its essence and nature of its characteristics. Information relates to both data and knowledge, as data represents values attributed to parameters, and knowledge signifies understanding of a concept." According to Section 2(f) of The Right to Information Act, 2002, 1 "Information" means any material in any form, including records, documents, memos, e-mails, opinions, advices, press releases, circulars, orders, logbooks, contracts, reports, papers, samples, models, data materials held in any electronic



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INTERNATION ON RECENT TREADS IN MU ON RECENT TREADS IN MU DEPNS OR NAHARI MAHANDINALAN DEPNS OR NAHARI MAHANDINALAN DEPNS OF ANDER January 14 <sup>th</sup> - 15 <sup>th</sup> , 2023 WI ACADEM This certificate is prouding presented to Prof. / 20:.	Bager Brincipal Principal Prof. M. P. Dhore Prof. A. D. Bobdey Convener Principal Prof. M. P. Dhore Prof. A. D. Bobdey Incurrent Reservation See States science courses			A REVIEW ON BIOSYNTHESIS OF NANOPARTICLES USING PLANT EXTRACT	ies prosented paper / politer entitled	held on January 14th - 15th, 2023 at Van Academy, Chandropur, Maharashtra, India.	has actively participated in INTERNATIONAL CONFERENCE ON "RECENT TRENDS IN MULTI-DISCIPLINARY RESEARCH" (ICRTMR 2023)	of JAWAHARLAL NEHRU ART'S COMMERCE AND SCIENCE COLLEGE WADI NAGPUR	This certificate is proudly presented to Prof. /Dr. / Nr. / Nr. / Nr. WITIN C. KONGRE	CERTIFICATE	January 14th - 15th, 2023 VAN ACADEMY, Mul Road, Chandrapur, Maharashtra, India	DSPMS DR. KHATRI MAHAVIDYALAY DSPMS DR. KHATRI MAHAVIDYALAY TUKUM. CHANDRAPUR. MAHAVIDYALAY 2023 SSES AMTS SCIENCE COLLEGE	INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MULTI-DISCIPLINARY RESEARCH
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# Trends And Growth In Physical Education And World Of Sports Dr. Sarang S. Khadse Professor, Physical education & sports I. N. College, Wade Nagpar

Dr. Sanjay R. Agashe

Asst. Professor, Physical education & sports S. N. Mor College, Turnsar

### Abdrach

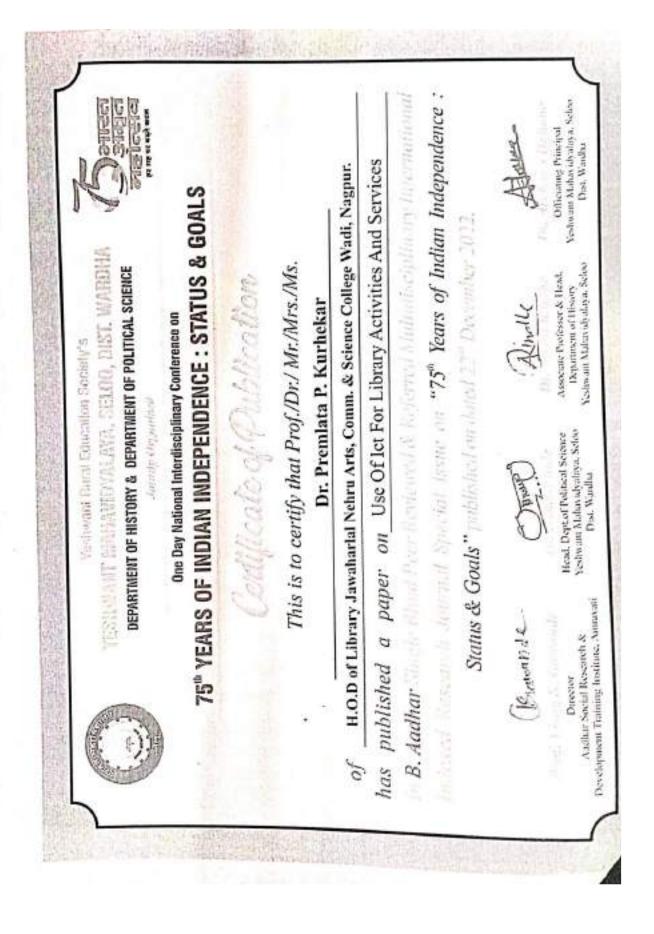
The contemporary fashion in PB practise has centered much less on a laugh and group sports a trythes and greater on getting youngsters healthy. Training is a process that arms to improve osciall performance and make the "right here and now" special after remote work or in the future. Although exceptional forms of training such as physical education, mental health education and vocational training, etc., abound in the current training situation, there is too much exceptionalism of the historical era. A changing financial and political lambcape, a changing saciety, a changing identity, a connected society, the digital revolution and healthier lifestyles are shaping our practice. As the reputation of education evolves, many schools and universities now offer study packages that are approved with the help of a professional association. Some guides offer toacter certifications after just a few days of training.

### Introduction

The modern practices and present curriculum desires to be changed to generate hobby of college students in bodily training and sports activities sports. The destiny demanding situations will eparticularly be the correct curriculum to be made and observed and to make to be had ok price tange from numerous corporations with a purpose to guide the needy however clever kids so as to simplest attention on their recreation with out demanding approximately the price range. The ets can even play an critical function in increasing and developing the hobby in bodily sports. The significance of bodily training and sports activities sports are being recognized in today's global and ethicits are being made to enhance the conditions in order that an increasing number of expense may be recognized. Education Itas many definitions, Training sociabiliary is the technique of directory, training and nurtaring someone or a human organization to achieve specific goals or expand unique skills. Coaching is a form of improvement in which someone called a teacher helps a learner or consumer achieve a specific non-public or expert goal through training and guidance A learner to sometimes called an educator. Sometimes education can also mean cauld interaction with people from whom you get more pleasure and knowledge than vice versa, and you give suggestion and instructions because the latter learnst however, coaching differs from mentoring in that it specializes in unique tasks or goals, rather than larger, standard dreams or improvements There are many teaching methods, various training and educational techniques. Liaming is a process that aims to improve overall performance and make the "right here and now" special after remote work or in the future. Although there are many extraordinary fads in education, it is not about "the teacher as an expert", but about teaching as a facilitator of knowledge acquisition Research from the last decade has shown that the enjoyment of k-doincters and the comments of different trainers are still the first information for trainers. However, teaching and perseverance do not attract experienced healers to this joy. Using the paintings of Pierre Roundieu, this article seeks to understand how "art practice" can be characterized as established improvesation and how pleasure is critical in structuring educational practice. The test of modern teaching training and evaluation shows that teaching practice, which is considered as a combination of knowledge, has by particularly considered the impact of the spread of teaching on teaching practice. Based on wildenic testews, we look at how the persistence of teaching and professional improvement consee mentoring and focused reflection to realistically enjoy education. Health education is defined in a whole new way to help people "manage" their illnesses and diseases, especially those that are perturbant to nature. The guide uses unique techniques, non-public enjoyment, information and individual to help educate people to change behavior to reduce health roles and health costs. The National Society of Health Coaches (NSHC) distinguished between littness education and health character recording to the NSHC, timeys coaches are qualified for "active people with acute or implong dimension and/or mild or excessive exercise risk," and health coaches provide advice and inspiration to "otherwise healthy people who want to maintain or improve their health."

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# Reflection of Culture in Indian English Literature from Pre-Independence to Post-Independence Era

Dr Archana Kiran Deshmukh

Assistant Professor, Dept. Of English, Jawaharlal Nehru Arts, Commerce and Science College, Wadi, Nagpur, archanakirandeshnoukh@gmail.com, 9922658885

### Abstract:

This paper is an attempt to analyse the depiction of Indian culture in the development of Indian English Literature from pro-independence to post-independence Era. Indian writing is constantly understood and documented as one of the most conventional writings in the world through its immunerable folklore and tales from pre-independence to post-independence times. Literature published in this erasignifies the personified enterprise of the people, their life lookout, sentiments, philosophies, ceremonies, spiritual beliefs and ethics demonstrating the cultural inheritance. The preindependent heritage of encompassing the cultural, social, political, and religious aspectswas carried forward by post-independence India writers but with a modern perspective. The journey was initiated by independence movement by patriotic fervour but progressively after independence the changing socio-cultural syntax of Indian life is wonderfully captured by the modern post-independence writers. The contribution is realistic, evocative and shows obligation to Indian culture. Majority of Indian writers have marvellous potential and have established them as accomplished writers aware of their cultural heritage in different shades.

Keywords:Pre-independence, Post- independent, culture, Colonial

### Research Question:

This paper attempts to study the evolution of pre- to post-Independent Indian English literature and how it portrays Indian culture through the work of various writers.

### Methodology

This study is based on Primary and Secondary sources available on and related to preindependent and post-independent Indian writers who contributed to the English language. Prominent English language writers of pre-independenceto post-independence India are considered while studying the reflection of Indian culture in their work. The journey from pre-independent to postindependent India is analysed to study the literary contribution of these writers to conclude. Research papers in various journals, articles in newspapers, books and real-life observations from academics are used as secondary sources. A comprehensive analysis of the available literature was undertaken by using both printed and internet sources.

### Literature Review:

Salih S.M.(2018) remarks that post-independence (colonial) literature is considered the literature of those countries that were colonized, mainly by European countries. It mostly addresses the queriesconcerning to the political and cultural independence of previously yielding people, and major themes such as acclimating through compelling new culture, racialism, and colonialism are discussed.Fasil Dar and Ajeet Singh (2019) distinctly points out that Indian English poetry is very rich in expressions of Indianness, its culture, politics, ethos and mythos. They endure that the preindependent and post-independent poets have a noticeable mark of dissimilarity between their ideas, themes, values and applications.Gauri Shankar Iha (2006) claims that the Indian writers owes its inheritance to opposite cultures: the east and the west leading to cultural conflict. The purposes of cultural studies are analytic, pedagogic and political. In particular, cultural studies has sought to develop ways of thinking about culture and power that can be utilized by forms of socialagencyin the pursuit of change says Chris Barker. (2004) Leena Rajani& Dipti Mehta(2014) remarks thatpre independence Indian English writing was the outcome of the cross-impregnation of two cultures -Indian and English.Sarika Goyal (2019) instigates thatindependence has been a major miracle in Indian historythat shaped the future of modern India with musingsmostly bitterof itscolonial pastand furthered theassociating of eastern & western culture. In the last quarter of the twentieth century with the advent of post-colonial literary studies, this domineering on Indian literary writing in English to translate India to itself and the world received a further boost remarksRosemary George (2013). In a post-colonial context, remarks Chris Barker that women carry the double burden of being

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and presented a paper entitled Contribution of Post - Independent women novelie of Jawahantal Nehru Arts, commence and science callege weed: Neg Rur. भारत PHE CHIC Artistic (1000 215 212 212 Review Yeshwant Mahavidyalaya, Seloo Dr. Archana Dahane has actively participated in the National Interdisciplinary Conference on Officiating Principal 75<sup>th</sup> Years of Indian Independence : Status & Goals Paules Dist. Wardha in Indian English Literature : A "75" Years of Indian Independence : Status & Goals" YESHWANT MAHAVIDYALAYA, SELOO, DIST. WARDH/ DEPARTMENT OF HISTORY & DEPARTMENT OF POLITICAL SCIENCE One Day National Interdisciplinary Conference on Yeshwant Rural Education Society's entilicate This is to certify that 22<sup>rd</sup> DECEMBER 2022 Yeshwant Mahavidyalaya, Seloo Prof./Dr./ Mr./Mrs. Leena V. Phate Associate Professor & Head, Dr. Anant Rindhe Inintly Organised Department of History Alnolle Yeshwant Mahavidyalaya, Seloo Hend, Dept.of Political Science Dr. Sandip Kale dimilar Dist. Wardha

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Internal Quality	Vasantrao Naik Government Institute of Ar Organised One day NAAC Sponsored N	New Teaching Methods in Higher Education: Introducing Technology	This is to certify that Dr./Mr./Ms/Mr./Mrs. Jawaharlal Nehru Art's Commerce and Science College	participated/presented a paper titled Research culture in the college	in One day NAAC Sponsored National Conference (in Hybrid Mode) organised on Sa	October 1, 2022.		Dr. Kapil Singhel	IQAC Coordinator	(VNGIASS)



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S. No.	Name of faculty member	Department	Title of research paper	Any other details
01	Dr. (Ms.) M. M. Bhatkulkar	Zoology	Global warming -A biggest issue for sustainable development	National conference on Basics and Advances in biological sciences by Sindhu Mahavidyalaya Nagpur on 8-9 April 2022
02	Dr. (Ms.) M. M. Bhatkulkar	Zoology	Importance of green campus in NAAC Accreditation	National Seminar on challenges and future prospects in online submission of SSR by D. A. K. M. Jaripatka, Nagpur on 30 April 2022
03	Dr. (Mrs.) A. K. Deshmukh	English	Global emerging trends in transformation of English language teaching	International conference on Global emerging trends in transformation of education by D. Y. Patil College of Education Pimpri, Pune on 20-21 April 2021
04	Dr. (Mrs.) A. K. Deshmukh	English	Life and the world: Theam of subjugation of the downtrodden and approaches in Indian culture as revealed in my India	International conference on language, Literature and cultural by Trinity College for Women Namakkal, Tamilnadu on 23-25 July 2021.
05	Dr. (Mrs.) A. K. Deshmukh	English	Indianness A socio-cultural conflict in 2 states: The story of my marriage	National seminar on Socio- Cultural and political perspective in Indio-Anglian fiction by D. M. K Umathe College Nagpur on 7 August 2021
06	Dr. (Mrs.) A. K. Deshmukh	English	Role of Indian English literature in Nation building in pre independent Era: with special reference to Raja Rammohan Roy, Rabindranath Tagore and Sir Aurobindo	International conference on Contribution of various aspects in Nation building by A. C. and S. College Moregaon, Yavatmal on 11-13 Oct. 2021
07	Dr. G. D. Zade	Physics	Potential of organic light emitting diodes in solid state lighting	International E- conference on frontiers in chemical sciences by MLSU, Udaipur, Rajasthan on 25 June 2021
08	Dr. G. D. Zade	Physics	Development of organic electroluminescent phosphor materials for display devices	V International conference on multifunctional advanced materials by Jnan Vikas Mandal's Degree college Navi Mumbai on 9-10 Aug. 2021
09	Dr. G. D. Zade	Physics	Synthesis of organic phosphor materials for display devices	International E- conference on sustainable and futuristic materials by Kamla Nehru Mahavidyalaya Nagpur on 29-30 Nov. 2021
10	Dr. R. K. Wanare	Chemistry	Heterocyclic chemistry and their glucosides	International conference on material science and spectroscopy by Maharishi University of Information

				Technology Lucknow on 22-24 Sept. 2021
11	Dr. R. K. Wanare	Chemistry	Synthesis and biological applications of substituted pyrazolyl	International conference on sustainable Asia's problem & Prospects by Warora's Vivekanand Mahavidyalaya Bhadrawati, Chandrapur on 22- 24 Nov. 2021
12	Dr. R. K. Wanare	Chemistry	Synthesis and self-assembling properties of beta – glucuronosyl- 5 -acetyl-7-[(1-acetal-5-aryl-4,5- dihydro-1H-pyrazol-3-yl)-amino]- 1,1-benzisoxazol-3-carboxylates	International Web Conference on advanced material science and nanotechnology by Vinayak Vidnyan Mahavidyalaya Nandgaon Khandeshwar, Amravati on 23-25 Nov. 2021.
13	Dr. R. K. Wanare	Chemistry	Design, synthesis and evaluation of novel thiopyrimidine glucuronide compounds with promising biological activities	International conference on Interdisciplinary approaches in chemical scineces by Abasaheb Garware College Pune on 21-23 Oct. 2021.
14	Dr. (Mrs.) L. V. Phate	English	Use of technology and digital platform in English language teaching	International conference on Contribution of various aspects in Nation building by A. C. and S. College Moregaon, Yavatmal on 11-13 Oct. 2021
15	Dr. (Mrs.) L. V. Phate	English	Githa Hariharan's In times of Siege: History, Polities and Censorship	National seminar on Socio- Cultural and political perspective in Indio-Anglian fiction by D. M. K Umathe College Nagpur on 7 August 2021
16	Dr. (Mrs.) L. V. Phate	English	Cultural identity and identity crises in selected novels of Githa Hariharan	International conference on language, Literature and cultural by Trinity College for Women Namakkal, Tamilnadu on 23-25 July 2021.
17	Dr. (Mrs.) L. V. Phate	English	Religious intolerance and liberal dissent in Giths Hariharan's In Times of Siege	International conference on impact of race, caste, class and religion on Indian and International society by Late V. K. arts college Rohana, Wardha on 7 Aug. 2021

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Principal Jawahartal Nehre Arts, Comm. & Sc! College, WadiNagper

in a street of a cale Achru Stells Commerce & dience Callege Bade. has actively participated Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur in collaboration with Technology and Energy Park, in the National Conference on "Basics and Advances in Biological Sciences" organized by Dada 50 Dr. V. M. Pendsey Officiating Principal Technology & Energy Park, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur R.T.M. Nagpur University, Nagpurand Global Biotech Forum, Nagpuron 8" & 9" April 2022. Biggest 15500 Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur "Basics and Advances in Biological Sciences" This is to certify that Prof. / Dr./ Mr./ Mrs./Ms. Manitha Bhatkulker Global Biotech Forum, Nagpur 8<sup>th</sup> and 9<sup>th</sup> April 2022 organized National Conference Dr. Mrs. Zeenat Kashmiri Certificate He' She has presented paper entitled Cheral Warning - St in collaboration with Convener Subtativatele Development bigunzing Scentury Dr. S.G. Hate -Hauph 6

A One Day NAGC Sponsored National Seminar on Challenges and Future Prospects in Online Submission of SSR Organised By DAYANAND ARVA KANYA MAHAVIDYALAYA, JARIPATKA, NAGPUR ON Arya Vidya Sabha's DAYANAND ARVA MAHAVIDYALAYA, JARIPATKA, NAGPUR ON Arya Vidya Sabha's DAYANAND ARVA MAHAVIDYALAYA, JARIPATKA, NAGPUR ON Arya Vidya Sabha's Arya Vidya Sabha's DAYANAND ARVA MAHAVIDYALAYA, JARIPATKA, NAGPUR On DAYANAND ARVA MAHAVIDYALAYA, JARIPATKA, NAGPUR On DAYANAND ARVA MAHAVIDYALAYA, JARIPATKA, NAGPUR On DAYA MAHAVIDYALAYA, JARIPATKA, NAGPUR DAYA MAHAVIDYALAYA, JARIPATKA, NAGPUR On DAYA MAHAVIDYALAYA, JARIPATKA, NAGPUR DAYA MAHAVIDYALAYA, JARIPATKA, NAGPUR On DAYA MAHAVIDYALAYA, JARIPATKA, NAGPUR DAYA MAHAVIDYA, JARIPATKA, NAGPUR DAYA MAHAVIDYALAYA, JARIPATKA, NAGPUR DAYA MAHAVIDYALAYA, JARIPATKA, NAGPUR DAYA MAHAVIDYALAYA, JARIPATKA, NAGPUR DAYA MAHAVIDYA, JARIPATKA, NAGPUR DAYA MAHAVIDA DAYA MA			88 T	CommeRCE JAGPUR	"ited	D.N.
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Special Issue June 2021 bearing ISSN No. 2581-9100, Organized by Dr. D. Y. Patil College of Education, Pimpri, Pune ER m ..... Dr.D.Y.Patil College of Education From: Asst. Prof. Dept of English, Jawaharial Nehru Arts, Commerce & Science College, Wadi, Nagpur. He / She hus: Presented & in Association with IQAC, DYPCOED, Savitribai Phule Pune University & Research Culture Society. This certificate is presented to Prof./ Dr. /Mrs./ Dr. Archana Kiran Deshmukh (A Multidisciplinary approach) on 20\* & 21" April 2021 in Educational Resurgence Journal Vol. 3, Published Paper on Global Emerging Trends in Transformation of English Language Teaching. Dr. Rekha Pathak TWO DAY'S INTERNATIONAL CONFERENCE Mallion International Conference on Global Emerging Trends in Transformation of Education Dr. D.Y. Patil College of Education (B.Ed., M.Ed.) Principal Dr. D. Y. Patil Unitech Society's (NAAC ACCREDITED WITH 'B' GRADE) E-Certificate Pimpri, Pune 411018. Certificate No. 425 Dr.D.Y.Pahl College of Education Asst. Prof. Suresh Waghmare Convenor



TRINITY COLLEGEFOR WOMEN (Arts & Science) NAMAKKAL-63700, TAMILNADU, INDIA (Permanently Affiliated to Periyar University, Salem-11)

# CERTIFICATE OF APPRECIATION

2(f) & 12(b) Status Granted by UGC, New Delhi

Presented to DR. ARCHANA DESHMUKH Assistant Professor of English Jawaharlal Nehru Arts, Commerce and Science College, Wadi, Nagpur, Mabarashtra, India For his/her outstanding presentation on Life and the World Around: Theme of Subjugation of the Downtrodden and Approaches in Indian Culture as organised by PG & Research Department of English, Trinity College for Revealed in My India in a Three Day International Conference on Language, Literature and Culture (ICLLC2K21) from 23rd July, 2021 to 25th July 2021 Women, Namakkal, Tamilnadu, India.



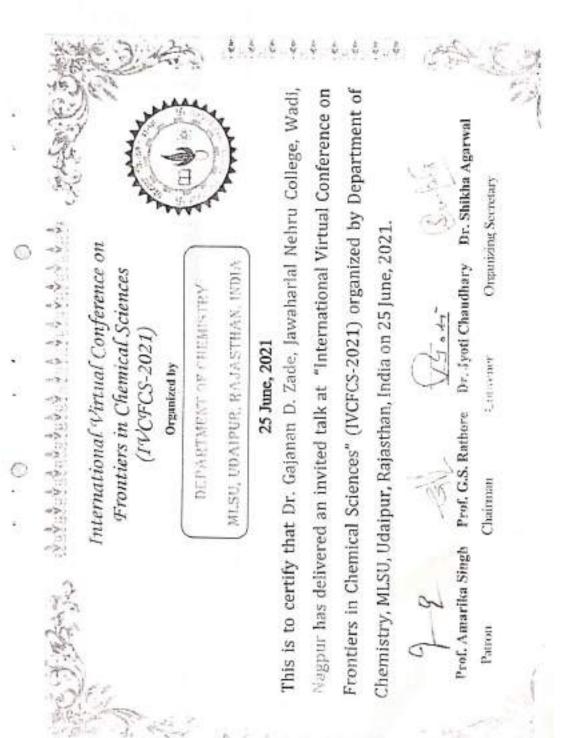


SECRETARY

CHAIRMAN

Dr. M. K. Umathe College, Nagpur Dr. M. K. Umathe College, Nagpur Dramma a tagita       Dr. M. K. Umathe College, Nagpur Dramma at tagita       Dramma and Political Perspectives in Indo-Anglian Fletion"       Socio-Cultural and Political Perspectives in Indo-Anglian Fletion"       Teria. Arraw a status treparations of tagitation       Teria. Arraw a status treparation of the Anglian Fletion"       In values area status treparations. Pure Strin. Shvaji Arts, Commerce College, Clukan, Pure Strin. Shvaji Arts, Commerce College, Man Contracto Warjoka: Arts and Commerce College, Man Contracto Margina Presentation       Detter of Plarticipation, Presentation and Plublication       Letter of Plarticipation, Dresentation and Plublication       Letter of Plarticipation, Dresentation and Plublication       Letter of Plarticipation, Presentation and Plare       Letter of Plarticipation, Presentation and Plare       Letter of Plarticipation       Letter of Plarticipation       Letter of Plarticipation       Letter of Plarticipation <td< th=""></td<>
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Amrit Mahotsav Science College Wadi Nagpur has participated and presented a research paper entitled Role of Azadika This is to certify that Dr. Archana Kiran Deshmukh of Jawaharlal Nehru Arts Commerce and Indian English literature in Nation Building in Pre independent Era: With Special Reference to Chemistry and Mathematics, Arts, Commerce and Science College, Maregaon from 11-13 Raja Rammohun Roy, Rabindranath Tagore and Sir Aurobindo in Multidisciplinary International e-Conference on 'Contribution of Various Aspects in Nation Building (CVAINB-2021)' organized by Department of English, Marathi, Sociology, History, Home economics, Commerce, Botany, Chairman, CVAINB-2021 Date : 14/10/2021 2. S. S. Sharde ARTS, COMMERCE AND SCIENCE COLLEGE MULTIDISCIPLINARY INTERNATIONAL E-CONFERENCE ON 'Contribution of Various Aspects in Nation Building' (Affiliated to Sant Gadge Baba Amravati University, Amravati) SO 9001:2015 certified, NAAC Accredited with B<sup>+</sup> Grade CVAINB-2021, 11-13 October, 2021 Maregaon (Road), Dist-Yavatmal-445303 (M.S) Organising Secretary, CVAINB-2021 Shetkari Shikshan Sanstha's E-CERTIFICATE Dr. S. K. Khade Junary 2 Ref. : CVAINB-2021/Presentation/021 Convener, CVAINB-2021 Dr. D. A. Gundawar Landon October, 2021.



	Dr. Nisar Alamett School of Chemistry, Cardiff University, Cardiff, UK Topic of Talk: Supramolecular Chemistry: Molecular recognition using fluorescent profiles
2:30-3:00 pm	Invited Talk-4 Dr. Gajanan D. Zade Head, Department of Physics, Jawaharlal Nohro Art's, Commerce & Science College Wadi, Nagpur, Moharashtra, Topic of Talk: Potential of organic light emitting diodes in solid state lighting
3:00-3:15 pm	Break
3:15-5:00 pm	Technical Session-3 OP 21-36
5:00-5:10 pm	Closing Ceremony and Valedictory Remarks
5:10 pm	National Anthem

### Poster session on Twitter

Present your poster to a global chemistry audience via Twitter (adMLSU\_Chemistry).

Poster session will start on Friday, June 25 (a. 10:30 am (IST) and conclude on Friday, June 25 (a. 5:00 pm (IST).

- Set Twitter profile to public for the duration of the paster session event June 25 (a) 10:30 am (IST) to June 25 (a) 5:00 pm (IST)
- Tag @MLSU\_Chemistry and use #MLSU\_Chemistry\_paster on your official poster tweet.
- 3. Pin your poster tweet, so your poster is easy to find.

It is important to upload your poster on time for judging purposes. The participants will answer to the query, if asked latest by technical committee latest by 4:00 pm.

Dr. Jyoti Chaudhary Convence Head, Department of Chemistry, MLSU, Udaipur, India

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Dr. Shikha Agarwal Organizing Secretary Assistant Professor, Department of Chemistry, MLSU, Udaipur, India

### Organizing Committee:

Dr. Poonam Khandelwal	Dr. Chetna Ameta	Dr. Dinesh Pandey	Dr. Neetu Kumari
Dr. Dinesh K. Yaday	Dr. Nitin Kumar	Dr. Probhot K. Buroliya	Dr. Siddharth Sharma
Dr. Rama K. Khungarot	Dr. L. K. Agarwal	Dr. P. S. Ranawat	Dr. Tarun Kamar
Dr. Devendra Singh	Mr. Vipln Khoker	Dr. Kiran Meena	

JVM's Degree College Dr. Leena Sarkar Science College, Wadi, Nagpur was selected as the Best Presentation in oral/poster presentation MATERIALS (VICMAM-2021)\* organized by Department of Chemistry, JVM's Degree College in This is to certify that 'Development of Organic Electroluminescent Phosphor materials for display devices' presented by Dr. Gajanan Zade of Jawaharla! Nehru Arts, Commerce and Kahar In 'VIRTUAL INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL ADVANCED Principal Harshada collaboration with Association of Chemistry Teachers on 9th and 10th August, 2021. Asst. Prof. Harshada Niju PERMANENTLY AFFILIATED TO UNIVERSITY OF MUMBAI (VICMAM-2021) NAAC RE-ACCREDITED 'A' GRADE (CGPA-3.33 ) CONVENET PLOT NO.9, SECTOR-19, AIROLI, NAVI MUMBAI JNAN VIKAS MANDAL'S DEGREE COLLEGE MAHARASHTRA - 400 708, INDIA CERTIFICATE Asst, Prof. Snudhya Patil (VICNIAM-2021) Mars Co-Convener throw it General Secretary, ACT Wilson College, Mumbai Prof. D.V.Prabhu Madhav Science PG Prof. Brijesh Pare President, ACT College, Uljain C U

JVM's Degree College Science College, Wadi, Nagpur was selected as the Best Presentation in oral/poster presentation Dr. Leena Sarkar MATERIALS (VICMAM-2021)' organized by Department of Chemistry, JVM's Degree College in This is to certify that 'Development of Organic Electroluminescent Phosphor materials for display devices' presented by Dr. Gajanan Zade of Jawaharlal Nehru Arts, Commerce and Sel Rer IN 'VIRTUAL INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL ADVANCED Principal Asst. Prof. Sandhya Patil Asst. Prof. Harshada Niju collaboration with Association of Chemistry Teachers on 9th and 10th August, 2021 PERMANENTLY AFFILIATED TO UNIVERSITY OF MUMBAI Harshala (VICMAM-2021) NAAC RE-ACCREDITED 'A' GRADE (CGPA-3.33 ) PLOT NO.9, SECTOR-19, AIROLI, NAVI MUMBAI Convener JNAN VIKAS MANDAL'S DEGREE COLLEGE MAHARASH'FRA - 400 708, INDIA CERTIFICATE (VICNIAM-2021) Co-Convener General Secretary, ACT Wilson College, Mumbai Prof. D.V.Prabhu Vladhav Science PG Prof. Brijesh Pare COLLEGE President, ACT College, Ujjain

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Prof. Brijesh Pare President ACT	Dr. D. V. Prabhu General Secretary	Prof. M. Swaminathan Convener SFM-2021	n Dr. V. P. Dhomne Principal J. M. Patel College, Bhandara	homne pal ge, Bhandara	In Dr. W. B. Gurnule Dr. W. B. Gurnule Organizing Secretary SFM-2021

SUSTAINABLE 6 FUTURISTIC MATERIALS (SFM-2021)

OP 23

### "Synthesis of Organic Phosphor Materials for Display Devices" Gajanan D. Zade

BAUSTICLICS AND B

Jawaharlal Nehru Art's, Commerce & Science College Wadi, Nagput, Maharashtra, India, 440023. E-Mail – <u>zadegajanan@gmail.com</u> (Mb, No. - 9890628668)

### Abstract -

6

An organic light emitting diode (OLED) also known as organic electroluminescent diode in a display device like light emitting diode in which an emissive electroluminescent layer is a film of organia compound material that emits light in response to an electric current. This organic layer is situated in between two electrodes; typically at least one of these electrodes is transparent. The organic molecules have conductivity levels ranging from insulators to conductors, and are therefore considered as organic semiconductors. Organic semiconductors were synthesised by one of the method known as the method of Friedlander condensation reaction. Originally, the basic polymer synthesised organic material is group of Diphenylquinoline (DPQ) family which consisted of a single organic layer for OLED. The family membersof DPQ were synthesised by bonding chlorine- methyl, bromine, methyl, methoxy, P+ hydroxyl, P+Acetylhiphenyl and P- Acetyl bi-chlorine to the original structure of DPQ at various positions. All the synthesesed polymers show crystalline in nature and emits blue colour under UV in various acidic as well as basic solvents like acidic acid, formic acid, chloroform, dichloromethane, tetrahydrofuran etc. The synthesised phosphors were characterised by different techniques to study physical, optical and chemical properties such as Fourier Transform infra-red (FTIR), UV- Visible absorption and photoluminescence spectra, X-Ray diffraction spectra (X-RD), Thermo gravimetric analysis (TGA) and Differential thermal analysis (DTA). All The blue emitting organic phosphors has generated considerable interest owing to their good photoluminescence efficiencies.

Keywords - OLED's, Solid state lighting, Friedlander condensation reaction, Organic Phosphors

### OP 24

### AMALGAMATIONS AND SPECTRAL IDENTIFICATION OF HETEROCYCLIC COMPOUNDS COUMARIN AND THEIR COMPLEX WITH BIOACTIVE COBALT METAL ION AS PHARMACOPHORE

Anil Kumar Koshal' and Alka Pradhan'

E-mail: koshal\_anili@yahoo.com

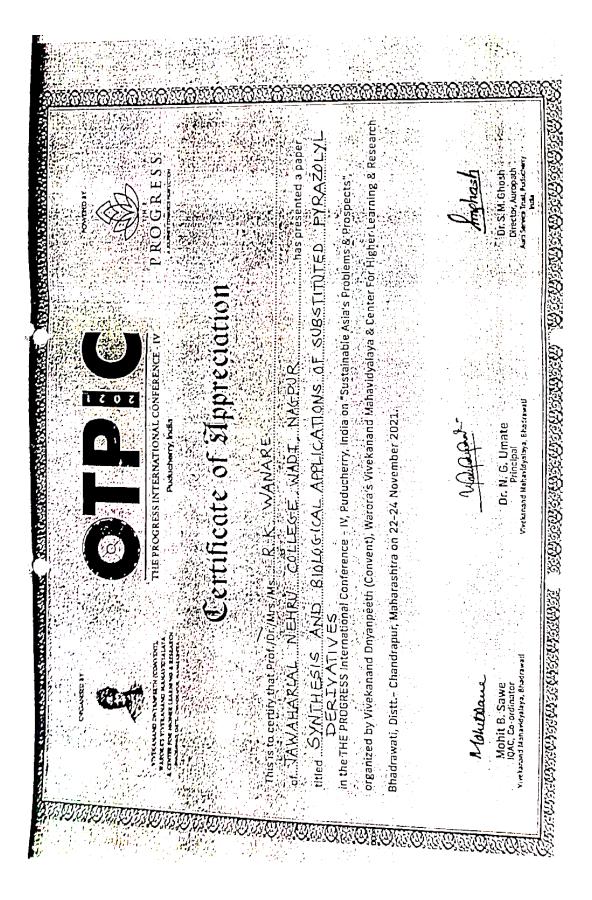
<sup>1</sup>Department of Chemistry, Govt. College Lateri, Distt. Vidisha (M. P.) India 464114 <sup>2</sup>Department of Chemistry, Govt. MotilalVigyanMahavidhyalaya, Bhopal (M. P.) India 460102

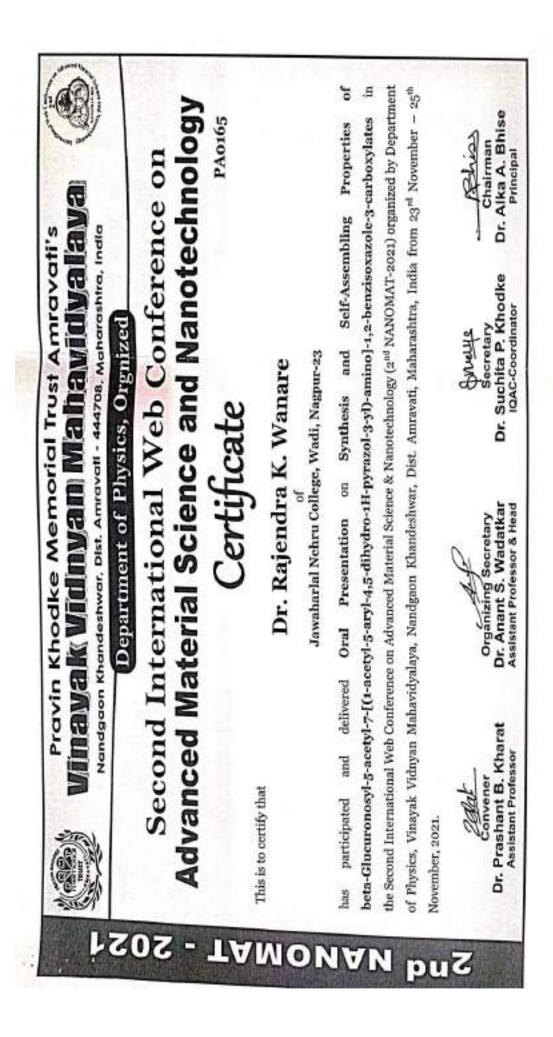
### Abstract-

The present work describes the amalgamation of chelate compound of coumarin heterocyclic molecy derived from condensation of "diethylmalonate, salicylaldehyde, thiosemicarbazide and substituted aromatic aldehyde with different condensing agents". Complexes of Cobalt (II) with the generic structural formula ML(1:1) has been prepared using this tetradentatechelating compound. The synthesizedcompound and complexes were characterized by spectral analysis data such as IR spectral data, elemental analysis, electronic spectra, magnetic susceptibility and Mass spectra. The metal ligand 1:1 [M:L] ratio in the complex confirmed by elemental analysis data. IR data gave information about the chelating nature of ligand. Electronic spectral analysis indicates the octahedral geometry of metal complexes. The synthesized compound and complex were screened for antimicrobial activity against selected micro pathogens.

Key words : Heterocyclic, Commarin, Bioactive, Miero pathogens,

International Conference on Materials Science and Spectroscopy (ICMSS-21) International Conference on Materials Science and Spectroscopy (ICMSS-21) MUIT/SOS/IC/ICMSS21/0P/014 September 22-24, 2021	chanter	ersity, Nagpur (M.S.) has participated in the "International Conference on Materials Science and	Spectroscopy" organized by School of Science, Maharishi University of Information Technology, Lucknow, Uttar Pradesh, India during September 22-24, 2021. Title of Research Paper: Heterocyclic Chemistry and their Glucosides	Pr. Shubde - Dr. Vikas Kumar Shukla Organizing Secretary
SHI UNIVERSITY OF ATION TECHNOLOGY On Materials Science (ICMISS-21) tember 22-24, 2021	ICATE	gpur (M.S.) International Conferen	shi University of Infor their Glucosides	Prof. Madhulika Singh Organizing Secretary
MAHARISHI UNIVERSITY OF INFORMATION TECHNOLOGY EFFENCE ON MATERIALS SC (ICMISS-21) September 22-24, 2021	CERTIFICATE Dr. Rajendra K. Wanare	RTM, Nagpur University, Nagpur (M.S.) reh paper Oral in the "Internationa	Science, Mahari r 22-24, 2021. Chemistry and	Dr. Renu Singh Co- Convener
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International Co	This is to certify that	ofand presented a r	Spectroscopy" organized by School of Science, Maharishi University of Uttar Pradesh, India during September 22-24, 2021. Title of Research Paper: Heterocyclic Chemistry and their Glucosides	Prof. B. P. Singh







# 2020-2021

S. No.	Name of faculty member	Department	Title of research paper	Any other details
01.	Dr. S. K. Shembekar	Commerce	Rural development through entrepreneur development	Paper published in International Journal of search, ISSN 2321-1709. (12 December 2020)
02.	Dr. S. K. Shembekar	Commerce	Implications of climate change on the agricultural production and demand supply	Paper published in Dogo Reangsang research Journal, ISSN 2347-7180. (03 July 2020)
03.	Dr. (Mrs.) L. V. Phate	English	Technology integration and innovation techniques in English language teaching	Online International conference on continuity, consistency and innovation in applied sciences and humanities by St. Martin's engineering College Secunderabad on 13-14 Aug. 2020
04.	Dr. (Mrs.) L. V. Phate	English	Role and impact of information and communication technology on the future of education	International conference on the new normal: Evolving scenario in business and economy by Central Institute of business management, research and development on 27 Nov. 2020
05.	Dr. (Mrs.) A. K. Deshmukh	English	A study of media and women empowerment: pre-Independence to modern India	International conference on Literature, society and the Global media by Agra College Agra, Utter Pradesh on 26-27 Sept. 2020. ISSN 2456-6683
06	Dr. (Mrs.) A. K. Deshmukh	English	Future of education in India: A review	International conference on the new normal: Evolving scenario in business and economy by Central Institute of business management, research and development on 27 Nov. 2020
07	Dr. (Mrs.) A. K. Deshmukh	English	Indian culture and Hinduism: A study of Jim Corbett's work	National webinar on depiction of India in English literature by V. N. Govt. Institute Nagpur on 28-29 May 2021
08	Dr. (Mrs.) A. K. Deshmukh	English	Global emerging trends in transformation of English language teaching	International conference on Global emerging trends in transformation of education by D.
09	Dr. M. N. Bhajbhuje	Botany	Mycodiversity of speed borne flora of vigna unguiculata L.	International E- conference on Innovative research trends in life science by Shivaji Science College Akola on 3-5 Dec. 2020.

Glunde Principal

Jawaharlai Nehru Arts, Comm. & Sc! College, WadiNagpur



GE-International Journal of Management Research ISSN (O): (2321-1709), ISSN (P): (2394-4226) Vol. 8, Issue 12, December 2020 Impact Factor: 5.779 © Association of Academic Researchers and Faculties (AARF) www.aarf.asia,Email : editoricaarf.asia, editoraarf@gmail.com

# Rural Development through Entrepreneur Development

Dr. Subbash K. Shembekar Jawaharlal Nehro Arts, Commerce and Science College Wadi, Nagpur

### Abstract :

Indian villages are not developed since long. The Rural development is now connected to entrepreneurship. Entrepreneurship Development is avital driver of economic growth. productivity, innovation, and job creation, and as a key aspect of economic dynamism. This paper focuses on the role of entrepreneurship development in the rural development. Keewords : rural development, entrepreneurship, urbanization

### Introduction :

Most of the rural areas around the world face economic challenges, due to their peripheral locations and also because of their declining economies. With the emergence of globalization and urbanization, many people who lived in rural areas before, have decided to move to urban centers, either for the updated infrastructure that eities have, or in exploration of the employment opportunities that industries in cities offer. This means that majority of rural tecents and towns are facing impration and decline

One response to the deterioration of traditional rural reductives, such as agriculture and monty has been the ensergence of tournam orientated concepts a most activities. I ettauly, many people independent to final areas see tonicem as a channel for them to stary and frequent their region or inwis, without reducing their standard of looning

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Dogo Rangsang Research Journal ISSN : 2347-7180 UGC Care Group I Journal Vol-10 Issue-07 No. 3 July 2020

# Implications of Climate Change on the Agricultural Production and Demand-Supply

Dr. Subhash K. Shembekar Jawaharlal Nehru Arts, Commerce and Science College Wadi, Nagpur

### Abstract

The agricultural productivity decreases with an increase in annual average temperature in most of the crops. The adverse impact of climate change on agricultural production specifies food security threat to small and marginal farming households and adversely affected due to climate fluctuations. This paper focuses on the impact of climate change on the agriculture sector.

Keywords climate, environment, demand-supply

## Introduction :

Weather is the condition of the atmosphere at a particular place and time it is characterized by parameters such as temperature, humidity, rain and wind Climate is the long term pattern of weather conditions for a given area. Climate change refers to a significant variation in either the mean state of the climate or its variability persisting for an extended period. India is home to extraordinary variation of climate regions, ranging from tropical in the south to temperate and alpine in the Himalayan north, where elevated regions receive sustained winter snowfall. The nation's climate is studily influenced by the Himalayas and the Thar Desert. Four major climatic groupings dominate into which fall seven climatic zones which are defined on the basis of temperature and precipitation.

Currently we are able to secure food supplies under these varying conditions. An climate models predict that there will be more extreme weather conditions, with more droughts, heavy rainfall and storms in agricultural production regions.

Climate change is the supreme important global environmental charlenge tacing humanity with implications for natural ecosystems agriculture & health. The berusal of general circulation models (GCM s) on climate change indicate that rising levels of greenhouse gases (GHGs) are likely to increase the global average surface temperature by 1.5-4.5°C over the next 100 years. The difference of average temperature between the last ice age and present climate is 6°C. This will raise sealevels, shift climate zones pole ward, decrease soil moisture and storms. Global warming is predicted to affect agricultural production.

Food Consumption in India

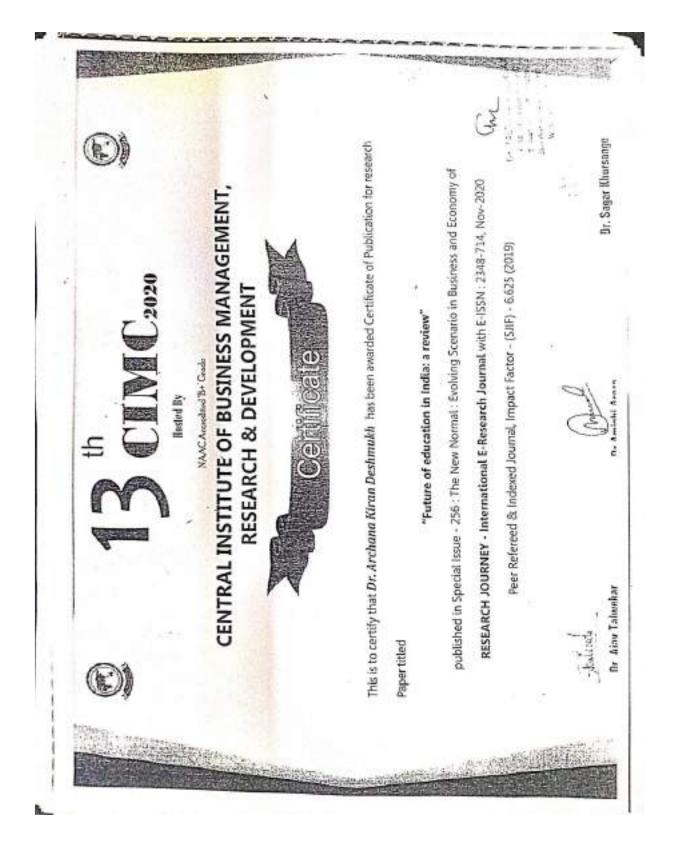
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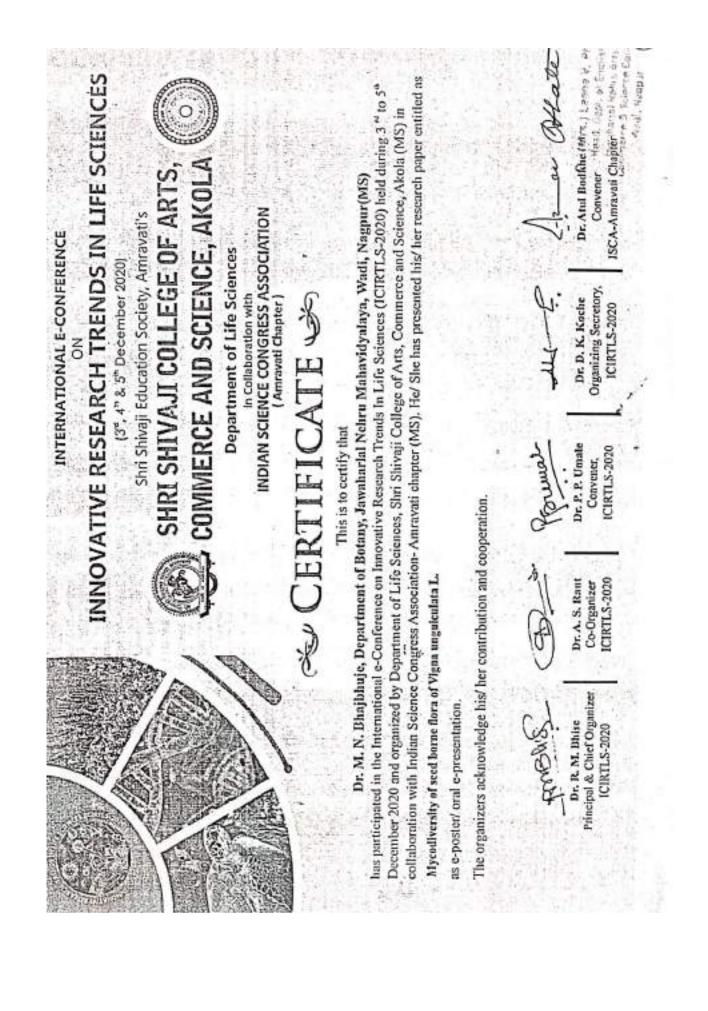


Sabargamua University of Sri Lanka Head, Department of Languages, **Dr. Sangeeth Rathnayake** Certificate of Participation and Presentation in 'International Conference on Literature, Society & the Global Media' A Study of Media and Women Empowerment: Pre-Independence to Modern India Literature, Society & the Global Media has participated and presented article / paper titled Agra College, Agra, Uttar Pradesh, India Sabaragamuwa University of Sri Lanka, Sri Lanka & Dr. Archana Kiran Deshmukh dated 26<sup>th</sup> & 27<sup>th</sup> September, 2020. Date: 26 & 27, September, 2020 International Conference on Director, Research Culture Society. This is to Certify that Research Culture Society Jointly organized by Dr. C. M. Patel Principal, Agra College, Agra, UP, India. Dr. Rekha Patsariya ac all Ref.No: ICLSGM/CPP/016 U



Vasantrao Naik	Government Institute of Arts and Social Sciences, Nagpur		0
D Rajkumar 1 Dr. M.	epict Kewa K. U <sub>1</sub> B Lette	rmment Institute of Arts and Social Department of English Organized Two Day National Webinar ion of India in English Literatu in collaboration with Departments of English of Iramani Mahila Mahavidyalaya, Jaripatk nathe College of Arts and Commerce, N hiwapur Mahavidyalaya, Bhiwapur r of Participation and Publication	l Sciences, Nagpur ure ca, Nagpur Vagpur
This is to certify that Dr./ titled Depiction of India in him/her titled Indian Cult Webinar Publication in Pee year 2021.	This is to certify that Dr./Mr./ Ms./ Dr. Archana Kiran Deshmukh has attended Two Day National Webinar titled Depiction of India in English Literature organized on 28 and 29 of May 2021. The paper submitted by him/her titled Indian Culture and Hinduism : A Study of Jim Corbett's Work has been shortlisted for Webinar Publication in Peer Reviewed Journal, indexed in SJIFactor.com with impact factor of 8.072 for the year 2021.	Deshmukh has attended Tw I on 28 and 29 of May 2021. Iy of Jim Corbett's Work I in SJIFactor.com with impa	<sup>40</sup> Day National Webinar The paper submitted by has been shortlisted for of factor of 8.072 for the
Dr. Sujata Vyas Director, (Incharge) VNGIASS, Nagpur	Dr. Urmila Dabir BoS Chairperson and Principal, RKMM, Nagpur	Dr. Jobi George Convener and Principal Bhiwapur M.V., Bhiwapur	Dr. D. V. Naik Convener and Principal Dr. M. K. Umathe College.

Special Issue June 2021 bearing ISSN No. 2581-9100, Organized by Dr. D. Y. Patil College of Education, Pimpri, Pune From. Asst. Prof. Dept of English, Jawaharlal Nehru Arts, Commerce & Science College, Wadi, Nagpur. He / She has Presented & Published Paper on Global Emerging Trends in Transformation of English Language Teaching. in in Association with IQAC, DYPCOED, Savitribai Phule Pune University & Research Culture Society. Dr.D.Y.Patti College of Education (A Multidisciplinary approach) on 20<sup>4</sup> & 21<sup>4</sup> April 2021 in Educational Resurgence Journal Vol. 3, (TWO DAY'S INTERNATIONAL CONFERENCE) Dr. D.Y. Patil College of Education (B.Ed., M.Ed.) Dr. Rekha Pathak International Conference on Global Emerging Trends in Transformation of Education A white Principal This certificate is presented to Prof/Dr. /Mr./ Mrs./ Dr. Archana Kiran Deshmukh (NAAC ACCREDITED WITH 'B' GRADE) Dr. D. Y. Patil Unitech Society's Pimpri, Pune 411018. E- Certificate Idé Certificate No. 425 Dr.D.Y. Patil College of Education Asst. Prof. Suresh Waghmare Convener 本



# 2019-2020

S. No.	Name of faculty member	Department	Title of research paper	Any other details
01.	Dr. A. R. Nagpure	Maths	Spherically symmetric cosmology in presence of perfect fluid	Paper published in International Journal of Engineering and Creative science , ISSN 2456-3463 (2020)
02.	Dr. A. R. Nagpure	Maths	Axially symmetric bulk viscous cosmological solutions with zero mass scalar field in general relativity	Paper published in International Journal of Engineering and Creative science , ISSN 2581-6667 ( 2020)
03.	Dr. S. K. Shembekar	Commerce	Analytical study of foreign direct investment in India	Paper published in International Journal of research in IT and management, ISSN 2231-4334. (November 2019)
04.	Dr. S. K. Shembekar	Commerce	A study of E commerce in today's Global market	Paper published in National Journal of Multidisciplinary research, ISS 2277- 3428. (18 eptmr2019)
05	Dr. Mrs. N. H. Kamble	Commerce	A study of startup scenario in Indian E commerce Industry.	International E conference on E Business, E-Management, E-Education and E-Governance Organised by Kamla Nehru Mahavidyalaya Nagpur 7-8 Feb. 2020.
06	Dr. M. N. Bhajbhuje	Botany	Paper published	International conference on Role of economy and ecology in sustainable development by Arts, Commerce College Phondaghat, Dist. Sindhudurg on 3 <sup>rd</sup> May 2020

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# Spherically Symmetric Cosmology in Presence of Perfect Fluid

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Abstract – The Spherically Symmetric Model has been obtained in the general theory of relativity. The source for energy-momentum tensor is accumed a perfect fluid i's field equation has been solved by using a special from of the average scale factor

$$\hat{N}(t) = \left[ (t - t_0)^2 + \frac{t_0}{1 - \beta} \right]^{1 - \beta} \text{ proposed by Cal et}$$

d. The physical properties and the bouncing behaviour of the model are also discussed.

Neywords- Spherically symmetric space time, Bouncing Universe

#### I- INTRODUCTION

In this paper bouncing behaviour of Spherically Symmetric cosmological model has been obtained in the general theory of relativity. This work is organised as follows in Section 2. The metric and field equations have been presented. The field equations have been solved in section3 by using a physical condition that the expansion scalar  $\theta$  is proportional to shear scalar  $\sigma$  and the special form of average scalar factor

 $R(t) = \left[ (t - t_0)^2 + \frac{t_0}{1 - \beta} \right]^{\frac{1}{1 - \beta}} \text{Proposed by Cai et. al},$ 

(2011). The physical and geometrical behaviour of the model have been discussed in section 4 in the last section 5 concluding remarks have been expressed. **II- METRIC AND FIELD EQUATIONS** 

We consider five dimensional spherically symmetric metric of the form

$$dt^2 = dt^2 - a_1^2 dt^4 - a_2^2 \left[ d\theta_1^2 + \sin^2 \theta_1 d\theta_2^2 + \sin^2 \theta_1 \sin^2 \theta_1 d\theta_2^2 \right]$$

Where the metric functions  $a_1, a_2$  are functions of cosmic time 't' only. (1)

The energy - momentum tensor for a perfect fluid is

$$T_i^{J} = (\rho + p) u_i u^J - p g_j^{J}$$
(2)

where p is the pressure,  $\rho$  is the energy density and  $g_j^{J}$  is a metric tensor. In co-moving coordinate system,

u' are the four co-moving velocity vectors which satisfy the condition

$$u_i u' = 0$$
, for  $i = 1, 2, 3, 4$ 

and  $u_i u' = 1$ , for i = 0

From equation (2) the components of energy momentum tensor are

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## Axially Symmetric Bulk Viscous Cosmological Solutions with Zero Mass Scalar Field in General Relativity

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Abstract – In this paper, we have investigated axially symmetric cosmological model with bulk viscosity and zero-mass scalar field in general relativity. The cosmological models are obtained with the help of the special law of variation for Hubble's parameter proposed by Berman (Nuovo Cimenio 748: 182, 1983). Some physical properties of the models are discussed.

Keyweeds-Asially Symmetric space time, Zero- mass scalar field, Bulk viscasity, General Belativity

#### I. Introduction

General theory of relativity proposed by Einstein [1] is the most successful theory of gravitation in which gravitation is described in terms of geometry.

The field equations in general relativity are,

$$R_i^{\prime} - \frac{1}{2}g_i^{\prime}R = -T_i^{\prime}$$
, (1)

where  $R_i^J, R \ll T_i^J$  have the usual meaning.

Moreover, in order to understand evolution\* of the universe, many authors constructed cosmological models containing a viscous fluid. The presence of viscosity in the fluid introduces many interesting features in the dynamics of homogenous cosmological model. Bulk viscosity plays an important role in cosmology in getting

the accelerated expansion of universe. The possibilities of balk viscosity leading to inflationary like solution in General Relativity. Another feature of bulk viscosity is that it sets like a negative energy field in energyunding universe. Many authors have studied ausmological models with the presence of bulk viscous fluid and cosmic strings coupled with scalar fields which play a vital role in the discussion of large scale structure and behaviour of the early universe. Khadekar et al. [3] discussed bulk viscosity in Freedman universe with a varying speed of light described by modified equation of store. The five dimensionel Kaluza - Klein universe with bulk viscosity and cosmic strings in Brant Dicke theory has been studied by Nalda et al. [4], Reddy et al. [5] have studied five dimensional Kaluza-Klein universe with bulk viscosity and cosmic string in  $/\!/\hbar, \ T\!/$  theory of gravity. Further Heddy et al. [6] discussed LRS Hinnchi type -II universe in the presence of a bulk viscous fluid with one - dimensional cosmic strings in the scalecovariant theory of gravity proposed by Canuto at al. [7].

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Analytical Study of Foreign Direct Investment in India

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#### Abstract :

FDI India was born with a single objective, of enabling financial strength for our clients through quality and conflict free Foreign Investments. FDI has support to raise the output, productivity and export in some sectors. However, it can be observed from the result of the PCONT that a very minimal relation in these variables (output, labour productivity and export) is established by the FDI inflows into the sectors. This may be due to the law flow of FDI into India both at the macro level as well as at the sectorial level. This paper focuses on the role of FDI in the Indian Economy.

Keywords : FDI, Economy, investment

#### Introduction :

FDI plays a pivotal role in a country. It provides a boost to working of the economy. Requirement of FDI relies on saving and investment rate of a country and in order to fulfil the gap between investment and saving. FDI plays an important role and acts as a bridge to fulfil the gap between investment and savings (Dwivedi& kumar, 2017) Domestic saving imitations can be covered through foreign capital during the economic development process and through that it also provides superior and beer technology that promotes better efficiency to the existing production capacity and thereby generate new production opportunity. It creates a window of transparency between the nations and hence accelerating bilateral trade among the countries (flargreaves &Dermott,1999). In the past two decades, the entire globe has witnessed the growing potential of foreign direct investment. In sample terms FDI means to the net inflows of funds into the home country which in turn leads to economic development (Noorbakhsh et al., 2001). It is a type of investment where the foreign funds are bought into an enterprise which operates in a different nation of origin from the investor. It is an important tool for any economy which acts as a lube for the economy. As per the

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A Study of E-Commerce in Today's Global Market

Dr. Subash Shembekar Assistant Professor, J.N. Colege, wadi

PASS 2277-1428

#### Abstract

Many experts believe that in recent years, a revolution has occurred similar to the industrial revolution which the world has entered the information age. It makes large changes in the economic, social and cultural aspects. One aspect of this transformation is changes in economic relations between industrials, corporations and governments. Commercial exchange between people who had been based on paper documents to transactions of by us the systems based on electronic information.

Keywords : E-Commerce, advantage,

#### Introduction

E-Commerce stands for electronic commerce and eaters to exchange of products, services and information via internet. Electronic commerce is more than just buying and selling products online. It includes the entire online process of developing, marketing, selling, delivering, serving and paying for products and services. It is doing business online. It includes any commercial activity that takes place threatly between a business, its portners, or its customers through electronic communication and digital information processing technology. E-Commerce is a modern business methodology that addresses the needs of the organisations, merchants and consumers to cut costs while improving the quality of goods and services and mcreasing the speed of service delivery. India has shown treatendous growth in the 1 - Commerce segment. E-Commerce has become an important tool for small and large businesses worldwide, not only to sell to customers but also to engage them.

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A study of startup scenario in Indian E-Commerce Industry

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#### Abstract:

The e-commerce model, which is the simple extension of physical store, today is proven one extended to M-Commerce, Social Commerce and E-Startups. There are an increasing number of startups in the Indian e-commerce industry which has brought the new concept of business via online market places. Due to extensive demand for online goods and service, the ecommerce industry has been growing rapidly and thus there are bigger opportunities to the new entrepreneurs to take the advantages of the same. The paper deals with the study of startup scenario in Indian e-commerce Industry.

Keywords: e-commerce, E-Startups, online market places, online goods and service

#### Introduction:

In this era of globalization and internet technology, many finds lots of knowledge, information resources and business opportunities but population who are availing the real opportunities through internet, information and communication technology are the budding startup founders. This era can be seen as a boon for those who are able to transform their ideas into business venture. India ranks third largest hub for startups worldwide, with around 800 startups launched every year in India, billions of dollars in funding from venture capitalist and angel investors, encouraging towards entrepreneurship.

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