

# Pathmaker

A Textbook for  
College Students

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College, Khatoli Dist. Gadhchiroli



2021-22



# PATHMAKER

## A Textbook for College Students

First Year B.A., Compulsory English (CBCS)

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**Preface**



We feel happy to bring out *Pathmaker: A Textbook for College Students*, a composite course for first year B.A. students of Gondwana University, Gadchiroli. It consists of prose, poetry, sections on grammar, basic language skills and composition, and the basics of communication skills. The fact that our students belong to differing linguistic backgrounds and abilities with regard to communication skills has been taken into account. An attempt has also been made to meet those global trends that pose new challenges before our students.

Great care has been taken with the selection of the contents. Easily understandable and interesting pieces of prose and poetry have been selected so that both teachers and students find them entertaining and enlightening. Brief sketches of the writers help the students become familiar with the writer's background and his/her individuality. Likewise, the explanatory notes and glossary provided with each text will also add to their comprehension. We feel that this course in English should sensitise students with regards to important human values. Separate sections on grammar, composition and the basics of communication skills have been provided to improve students' abilities in these areas. Thus, the book aims to cultivate sensitivity and understanding in students as well as enhance their skills to promote employability.

We wish to express our sincere gratitude to Professor Shrinivasa Varakhedi, Honourable Vice-Chancellor, Gondwana University, Gadchiroli for his motivational guidance. We are also grateful to Dr Shriram S. Kawale, Pro-Vice Chancellor, Gondwana University, Gadchiroli for his regular encouragement. Our sincere thanks are also due to Dr P.D. Nimsarkar, Working Chairman, Board of Studies in English, Faculty of Humanities, for his valuable advice. The making of this textbook was a combined effort by all the members of the Board of Studies in English and the editorial board. It is the outcome of their enthusiastic interest and valuable contribution. We wish to place on record our gratitude to our colleagues on the Board

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Book

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# Medicinal Plants

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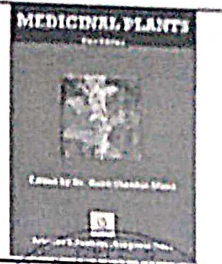




## Index

Sr. No.	Chapter Title	Page No.
1.	Neem: <i>Azadirachta indica</i> and its medicinal applications	1-13
2.	Studies on pomegranate and their applications	14-23
3.	Medicinal plants: A potential source of novel medications in the future	24-30
4.	Studies on lavender oil and their health benefits	31-36
5.	Medicinal importance of <i>Moringa oleifera</i>	37-40
6.	<i>Mimosa pudica</i> – A wonder plant with pharmaceutical and nutraceutical potential	41-53
7.	<i>Phyllanthus Niruri</i> L: A Holistic Medicinal Plant with Modern Therapeutics	54-65
8.	The Sacred Medicinal Treasure of India: Exploring the Banyan Tree	66-89
9.	<i>Acacia sinuata</i> : Pharmacological applications	90-98
10.	<i>Berberis aristata</i> : A potential resource of medicinal plants	99-110
11	Etymology of medicinal plants	111-122

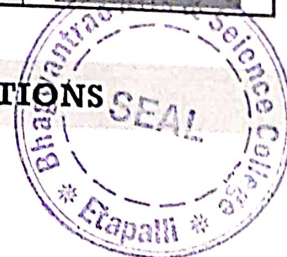




## NEEM: *Azadirachta indica* AND ITS MEDICINAL APPLICATIONS

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### Abstract

Neem (*Azadirachta indica* A. Juss) is India's most versatile applicable traditional medicinal plant in the world. It is used in many health issues. Neem is abundant in limonoids, which have powerful therapeutic effects such as antioxidant, anti-inflammatory, anti-bacterial, anti-malarial, anti-fungal, and anti-cancer, anti-diabetic characteristics. It has Pharmacological effects, global health advantages and medicinal applications. Since ancient times, almost every part of the tree has been utilized to treat a range of human ailments and as a household pesticide. Extracts of the bark, leaves, fruits, and roots have been used to undergo treatment with leprosy, intestinal helminthiasis, and respiratory disorders. *Azadirachta indica*, a tree native to India and Myanmar that has been called "Divine Tree" due to its numerous health benefits. The neem is known by various names overall world with different pronunciations. It is a member of the Meliaceae family and Plantae kingdom. This paper outlines the health advantages of several chemicals compounds and extracts derived from Neem, as well as the mechanisms involved.

**Key Words:** Neem, Medicinal plant, Neem extract, health advantages

### INTRODUCTION

Neem (*Azadirachta indica* A. Juss) is maybe India's most beneficial traditional medicinal plant [1]. Every portion of the neem tree has therapeutic properties and can thus be profitably exploited. Apart from the chemistry of neem compounds, significant progress has been made in the last five decades in terms of biological activity and medical applications of neem. It is today regarded as a valuable source of unique natural compounds for the creation of medications against different disease as well as industrial products. This plant was previously known as *Melia Azadirachta* (L) and *Antelaeazadirachta* (L). It is native to India and Myanmar (Burma). However, it may also be found in Bangladesh, Sri Lanka, and African countries. It climbs about 20 feet tall and is a member of the Meliaceae family [4]. The Latinized name of neem is *Azadirachta indica* is derived from the Persian.

Azad= Free, Dirakht=Tree, i-Hind= of Indian origin

Which means; "The Free tree of India" or "Noble Tree".

The neem tree is known by various names, including Indian lilac (English), Azadirakhta (Persian), Margosa and neeb (Arabic), Tamar (Burmese), Kohomba (Sinhala), neem (Hindi and Bangla), Pokoksemambu (Malaysia), Dogon yaro (certain Nigerian languages), nimba (Sanskrit and Marathi), Arya-veppu (Malyalam), Vaypum (Tamil), Bevu (Kannad) and



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# INTRODUCTORY INORGANIC CHEMISTRY FOR GRADUATION

(As per Gondwana University CBCS Syllabus For B.Sc. Semester IV)



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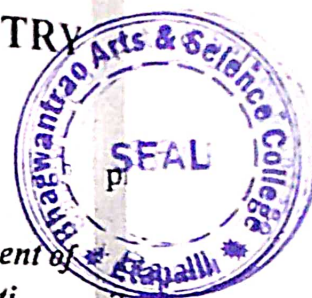
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# Contents

<b>Chapter 1</b>	<b>1</b>
<b>Unit I: (A) Co-ordination Compounds</b>	<b>1</b>
1.1. Definition :	1
1.2. Distinguish among double salt & coordination compound:	1
1.3. Werner's Coordination Theory:	1
1.3.1. Postulater of Werner's Coordination Theory:	2
1.3.2. Explanation of Structure of Co (iii) Ammines on the basis of Werners theory:	3
1.3.3. Experimental Verification of Werners Theory:	4
1.4. Sidgwick's Electronic Interpretation & Effective Atomic Number(Ean) Rule:	5
1.4.1. Effective Atomic Number (EAN) Rule:	6
1.4.2. Calculation of Effective Atomic Number:	6
1.4.3. Complexes which do not fallows EAN rule:	6
1.5. IUPAC Nomenclature of Coordination Compound:	7
1.6. Chelates:	11
1.6.1. Classification of Chelates :	11
1.6.3. Applications of chelate compounds:	14
1.7. Valence bond theory of transition metal complexes:	14
1.7.1. Application of valence bond theory:-	15
<b>Chapter 2</b>	<b>18</b>
<b>Unit I: (B) Isomerism In Coordination Compounds</b>	<b>18</b>
2.1. Structural isomerism:	18
2.2. Stereoisomerism:	19
2.1.1. Geometrical isomerism in octahedral complexes:	20
2.1.2. Types of octahedral complexes:	20
<b>Chapter 3</b>	<b>28</b>
<b>Unit II: (A) Hard Acid, Soft acid and Bases</b>	<b>28</b>
3.1. The classification of acids and bases	28
3.2. Characteristics of Hard and Soft acids	29
3.3. Characteristics of Hard and Soft bases	30
3.4. Pearson's HSAB principle	31
3.5. Application of HSAB principle	31
3.6. Symbiosis:	33
3.7. Limitation of HSAB concept	34



## Chapter 1

### Unit 1: (A) Co-ordination Compounds

1.1. Definition : Coordination compound are a special class of compound in which the central metal atom is surrounded by ions or molecule beyond their normal valency.

These are also referred to as Complex compound or simply complex.

The common examples of coordination compounds are haemoglobin, chlorophyll, vitamin B12 etc.

Other examples:  $[\text{Co}(\text{NH}_3)_6]^{3+}$ ,  $[\text{Fe}(\text{CN})_6]^{4-}$ ,  $[\text{Cu}(\text{en})_2]^{2+}$  etc

1.2. Distinguish among double salt & coordination compound:

#### Double Salt

#### Coordination Compound

1. Double salt exist only in solid state & dissociate into ions in aqueous solution or in any other solvent.	1. Coordination compounds exist in the solid state as well as when dissolved in water or any other solvent.
2. They lose their identity in solution.	2. They do not completely lose their identity in solution.
3. The properties of the double salt are essentially the same as those of constituent compounds.	3. The properties of coordination compound are different from the constituents.
4. In double salt, the metal ions show their normal valency.	4. In coordination compound, the metal ion satisfies its two types of valencies called primary & secondary valencies.
5. It is an ionic compound & does not contains any coordinate bond.	5. It may or may not be ionic but the complex part always contains coordinate bond.
Example. Mohrs salt: $\text{FeSO}_4 \cdot (\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$ .	Example $[\text{Ni}(\text{NH}_3)_6] \text{Cl}_2$ , $[\text{Fe}(\text{CN})_6]^{4-}$ , $\text{Ni}(\text{CO})_4$ etc
Potash Alum: $\text{K}_2\text{SO}_4 \cdot \text{Al}_2(\text{SO}_4)_3 \cdot 2\text{H}_2\text{O}$	
Carnallite: $\text{KCl} \cdot \text{MgCl}_2 \cdot 6\text{H}_2\text{O}$	

#### 1.3. Werner's Coordination Theory:

In 1893 Alfred Werner put forward a theory in order to explain the nature of bonding & structure of coordination compound which is known as Werner's coordination theory.

Werners postulates helped to explain the structures of various cobalt ammine complexes.

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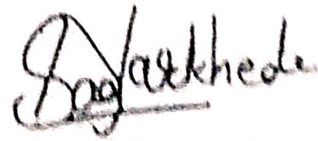
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**Trends And Opportunities In Physical Education And Sports**



**Dr. D. R. Yawale**  
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**Dr. Sagar P. Narkhede**  
Editor



# Recent Trends In Physical Education and Sports

Edited By  
Dr. Sagar P. Narkhede



## - INDEX -

1. **Information Technology To Improve Sports Performance** 1 - 3  
Prof. Anmol Gangadhar Gandhe
2. **The Role Physical Fitness And Health In Achieving Sustainable Development Goals** 4 - 8  
Assist. Prof. Ashish Diliprao Painkar
3. **Health and Hygiene of Indian Women** 9 - 10  
Dr. Alka Anil Thodge
4. **Career Opportunities in the field of Physical Education and Sports** 11 - 13  
Dr. Manohar Mahadeo Mane
5. **Career Prospective of Physical Education And Sports** 14 - 19  
Ratnesh Prasad
6. **Impact of Politics On Physical Education And Sports.** 20 - 25  
Anand. S. Chanagi
7. **Yoga: You're Fitness Guru!** 26 - 30  
Mr. Deepak Burud
8. **Management of Equipment And Material in Physical Education And Sports** 31 - 33  
Dr. Ganacharya Vinod Nagnath
9. **Mallakhamb As A Sport: Development And Rrecreation** 34 - 37  
Dr. Manohar S. Kalode
10. **Yogic Concepts of Holistic Health and Wellness** 38 - 41  
Dr. Rajendra Shalikram Gore
11. **An Innovative Way Towards Ict In Sports Events** 42 - 44  
Dr. Mohammed Ajaz Sheikh
12. **The Benefits of Yoga In Children** 45 - 49  
Dr. Sandeep Balkrushna Satao
13. **Trends And Opportunities In Physical Education And Sports** 50 - 52  
Prof. Sandip D. Maind
14. **Advance Technologies In Sports Competitions** 53 - 55  
Asst. Prof. Shailendra D. Giripunj





## Trends And Opportunities In Physical Education And Sports

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### Abstract :

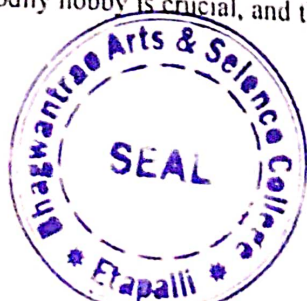
The goal of this paper is to discover the present day traits and demanding situations in bodily schooling and sports activities and primarily based totally on those present day demanding situations, destiny traits and demanding situations might be mentioned. There are different factors that are diminishing the hobby of college students in bodily schooling sports. Although the bodily schooling is being taught as part of curriculum in all the colleges however loss of ok time and skilled instructors, excellent centers are answerable for little hobby on this area. The destiny demanding situations to make this area exciting entails an ok curriculum, enough finances allotment for containing diverse competitions and position of era to create focus approximately the significance of bodily sports and sports activities in our each day lifestyles. All those troubles had been mentioned withinside the gift observe.

### Introduction :

The significance of bodily schooling has by no means been emphasized greater than it's miles today. It is broadly regarded that bodily schooling and sports activities is applicable and crucial in growing an lively and wholesome life-style and the answer to growing weight problems quotes worldwide. Although in maximum countries, bodily schooling is a part of the college curriculum, classes aren't given, for that reason main to a discounted enjoy of bodily hobby for kids and youth. The exercise of a bodily lively life-style in aggregate with wholesome nutrients, however, desires to be commenced in early childhood. Therefore, making sure that each one kids interact in ordinary bodily hobby is crucial, and the

colleges are the best vicinity wherein all kids may be reached. Quality Physical Education is the handiest and inclusive method of offering all kids, something their cappotential/disability, sex, age, cultural race/ethnicity, non secular or social background with the competencies, attitudes, values, know-how and expertise for lifelong participation in bodily hobby and game and is the best college issue whose number one recognition is at the frame, bodi hobby, bodily improvement and fitness. The gift observe will discover the present day traits, troubles and demanding situations in PE and sports activities primarily based totally on which destiny demanding situations can be addressed

Physical schooling traits have evolved lately to include a greater diversity of sports except common sports activities. Introducing college students to sports like bowling, strolling or hiking, or Frisbee at an early age can assist college students expand excellent hobby behavior to be able to convey over into adulthood. Some instructors have even started to include strain-discount strategies together with yoga, deep-respiration and tai chi. Tai chi, an historical martial arts shape centered on gradual meditative moves is a rest hobby with many blessings for college kids. Studies have proven that tai chi complements muscular energy and endurance, cardiovascular endurance, and gives many different bodily blessings. It additionally gives mental blessings together with enhancing standard intellectual fitness, concentration, focus and advantageous mood. It may be taught to any age pupil with very little device making it best for blended cappotential and age training. Tai chi can without difficulty be included right into a holistic getting to know frame and thoughts unit. Teaching





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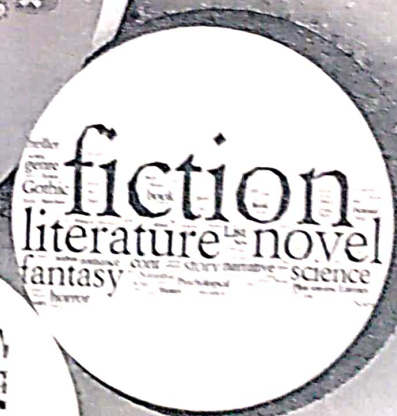
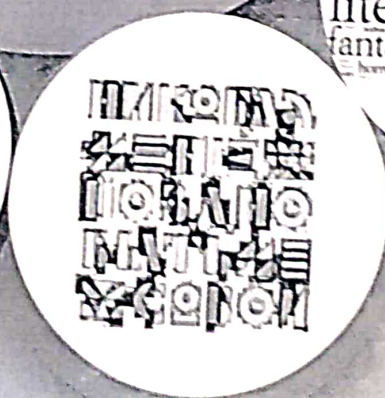
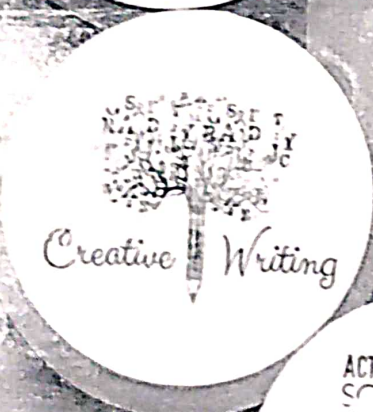
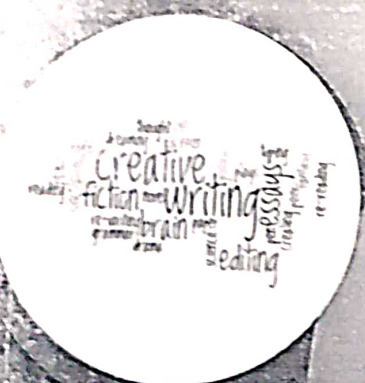
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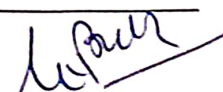
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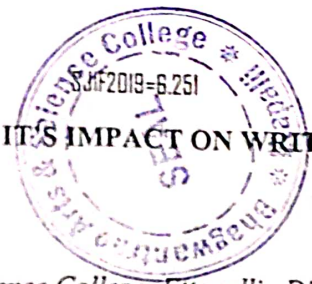
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Head, Dept. of English





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- |     |  |         |
|-----|--|---------|
| 16  | <b>STRATEGIC ESSENTIALISM: A MANOEUEVE OF VOICELESS</b><br><i>T. Thamizharasi</i>  |         |
| ✓17 | <b>NEW TRENDS IN ENGLISH LITERATURE &amp; IT'S IMPACT ON WRITER'S PERCEPTION</b><br><i>Prof. Dr. Balkrishna Kongre</i>   | 78-81   |
| 18  | <b>NARRATION, FOCALIZATION AND OTHER NARRATIVE ASPECTS IN MEGHA MAJUMDAR'S <i>A BURNING</i>: A NARRATOLOGICAL ANALYSIS</b><br><i>Dr. Avinash L. Pandhare</i>       | 82-85   |
| 19  | <b>COULD THIS BE OUR POSTHUMAN FUTURE? THE THEME OF CRYONIC CONTROL OVER DEATH IN DON DELILLO'S 'ZERO K'</b><br><i>Arvind N. Barde &amp; Mohammad Aslam Sheikh</i> | 86-90   |
| 20  | <b>RECENT TRENDS IN ENGLISH LITERATURE OF 21<sup>ST</sup> CENTURY : 'FIGHT FOR RIGHT'</b><br><i>Sunita Sukhdev Kayande</i>   | 91-93   |
| 21  | <b>EMERGING RECENT TRENDS IN ENGLISH LITERATURE IN THE 21<sup>ST</sup> CENTURY</b><br><i>Anupama M. Lawatre</i>  | 94-97   |
| 22  | <b>A STUDY OF NEW ASPECTS USED IN GIRISH KARNAD'S 'THE FIRE AND THE RAIN'</b><br><i>Asst. Prof. Priya Bhushan Kapadne</i>  | 98-102  |
| 23  | <b>FOLK LITERATURE: AN UNEXPLORED FORM OF CREATIVE WRITING</b><br><i>Dr. V. J. Chavan</i>  | 103-107 |
| 24  | <b>CHETAN BHAGAT: A POPULAR FICTION WRITER OF THE MILLENIALS</b><br><i>Dr. Imaniyal. S. Kondra</i>   | 108-112 |
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## NEW TRENDS IN ENGLISH LITERATURE & ITS IMPACT ON WRITER'S PERCEPTION

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### Abstract

*In the era of e-book technology, twitter, blog, facebook page and instagram have fostered the writing and reading all over the world. Of course, it has everlasting effects on writer's perception. Literally work produced in modern age, can be reviewed within span of time which helps to get information and quick reaction to the ideas, thoughts and feelings of someone and comments on it happened around the world. Role of technology, fast changing concept of globalization, transnational impact of English language gave new shape to global society. Many writers from India and ranging from R. K. Narayan to Chetan Bhagat and from Chaucer to Jason Nelson, we have in their work, during colonial and post-colonialism period number of new trends have been evolved. These trends play significant role to mould new literature in country and abroad. New trends are instrument to develop insight of writers and look into society and pave new way of lifestyle, fast culture. But some latest trends like six word novel and one line story on blog and twitter may be to writing skill, grammar and wrong use of vocabulary.. This paper attempt to discuss various trends and its impact on writer's perspective.*

**Key words:** e-Book technology, Twitter, Facebook page, Instagram, Transnational globalization

### Introduction:

Since 1930 onwards the trio of Indian writers like R. K. Narayan, Mulk Raj Anand, Raja Rao had produced literally work depicting old tradition and contemporary issues of India on Indian soil. On same time under British rule some Anglo-Indian writer such as Rusk and others were writing book, exploring their identity. Later on in post-colonial period Rushdie and others have stamped on their impression in writing using different trend. Colonial literature is new trend which emancipate the writers to narrate cross-border experience amalgamating different views of various communities. This expand the horizon of genius. There were exchange of ideas and thoughts with foreign writers. This practice turned into multiculturalism a new trend and progress in linguistic, the theory of Bloom, Chomsky and Darwin's theory of evolution and psycho-analysis novels of Sigmund Freud. Virginia Woolf's Stream of Consciousness gave new dimension to English literature and language. Literature is the mirror of society. In C. S. Lewis' words "Literature adds to reality, it does not simply describe it. It enriches the necessary competencies that daily life requires; and in these respect, it irrigates the desert that our leaves have already become."

Technology has sprout out so fast and left the everlasting effect on everything. In rural area, backward classes left away from the use of technology. Mobile phone is one crucial invention of technology for communication and digitalization. As mobile phone has the communication functions and made it easier than earlier. It is possible to access information all over the world. As the communication and information services have been growing



## गडचिरोली जिल्ह्यातील शैक्षणिक महाविद्यालयाच्या ग्रंथालयातील डिजीटलाईझेशन प्रक्रीयेचा अभ्यास

विनोद प्रकाश पत्तीवार

ग्रंथपाल, भगवंतराव कला व विज्ञान महाविद्यालय, एटाल्ली, जिल्हा गडचिरोली  
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### 1.0 प्रस्तावना:

एकविसाव्या शतकात जागतिक स्तरावर ज्ञान किंवा माहिती हे एक खणखणीत वाजणारे चलन बनले आहे. त्यामुळे ज्ञान व्यवस्थापनशास्त्रात संगणक प्रशिक्षित डिजिटल ग्रंथपालाला महत्त्व आले आहे. डिजिटल ग्रंथालय युगातील ज्ञानव्यवस्थापन उद्योजकांना म्हणजेच ग्रंथपालांना आपल्या माहिती व तंत्रज्ञान संबंधित कौशल्याचा निरंतर करणे आवश्यक आहे. कुठल्याही विषयावर आम्ही माहिती देऊ हे ग्रंथालयीन वैशिष्ट्य सतत आचरणात आणणाऱ्या काही विशिष्ट ग्रंथालयातील अपारंपरिक ग्रंथालयीन सेवेमुळे विविध प्रकारची अचूक माहिती मिळविणे डिजीटल ग्रंथालयांना शक्य झाले आहे. पारंपरिक पुस्तके व मासिके या संबंधित सेवा देणाऱ्या या ग्रंथालयात काळानुरूप संगणकीय ग्रंथालयाच्या (डिजिटल लायब्ररी) युगातील ई-माहितीपत्रकाद्वारे निवडक माहिती वितरण वृत्तपत्र कात्रण, भाषांतर, पेटंट व ट्रेडमार्क, मानके (स्टॅंडर्ड्स), ट्रेड कॅटलॉग्स इ. अपारंपरिक ग्रंथालयीन सेवा उपलब्ध होऊ लागल्या आहेत.

या सेवांना मिळणारा वाचकांचा वाढता प्रतिसाद लक्षात घेता डिजीटल ग्रंथालय सेवा हा एक महत्वाचा भाग झालेला आहे. विशेष म्हणजे, पारंपरिक ग्रंथालयसेवेला इंटरनेटच्या आधुनिक माध्यमातून डिजिटल लायब्ररीचे स्वरूप आल्यानंतर महाविद्यालयातील ग्रंथालयांची कार्यक्षमता वाढत आहे. ग्रंथालयीन सेवा, अचूक व्यवस्थापन व माहिती तंत्रज्ञान या शास्त्रांचा योग्य वापर केल्यास महाविद्यालयीन स्तरावर ज्ञानव्यवस्थापन (नॉलेज मॅनेजमेंट) लाभकारी होण्यास भरपूर वाव आहे.

आधुनिक डिजिटल ग्रंथालयाचे वैशिष्ट्य म्हणजे, संगणकाच्या 'माऊस' वर 'क्लिक' करा व तात्काळ माहिती मिळवा असे आहे. मात्र इंटरनेटच्या अफाट ज्ञानसागरातून अचूक माहिती शोधून योग्य वाचकाला, योग्य वेळी तात्काळ पुरविण्याचे महत्त्वाचे कार्य डिजिटल लायब्ररीअनच करू शकतो. आधुनिक डिजिटल ग्रंथालयात इंटरनेटपासून ते अलीकडील 'टच स्क्रीन' तंत्रज्ञानाचा वापर सुरू झाला आहे. संगणकीय युगातील 'डिजिटल लायब्ररी, नॉलेज मॅनेजमेंट, मशिन लर्निंग' या शास्त्रांचे काळानुरूप वाढते महत्त्व लक्षात घेता ज्ञानव्यवस्थापन क्षेत्रात संगणक-प्रशिक्षित ग्रंथालय पदवीधारकांना भरपूर संधी उपलब्ध आहेत. विशेष म्हणजे, इंटरनेटच्या माध्यमातून विविध ग्रंथालयीन सेवा 'ऑनलाइन' माध्यमातून देता येते.

प्रचंड लोकसंख्या, वेगाने वाढणारी अर्थव्यवस्था, डिजिटलायझेशनचा वेगाने केला जाणारा स्वीकार, तंत्रज्ञान निर्मिती क्षमता, उद्योगक्षेत्री वातावरण ही आजच्या भारताची ताकद आहे. त्यासाठी सरकारने उद्योग, स्टार्टअप्स, शिक्षण या क्षेत्रांसोबत एकत्रितरित्या काम करण्याची गरज आहे. डेटा आधारित तंत्रज्ञानाचा व्यावसायिक व समाजासाठी जास्तीत जास्त उपयोग करून घेणे ही काळाची गरज आहे. त्यासाठी नावीन्यपूर्ण गोष्टी, आकर्षक व्यवसाय मॉडेल, नवे संशोधन, बौद्धिक मालमत्ता आणि तंत्रज्ञान आधारित



आकर्षक धोरणांची आवश्यकता आहे. वरील सर्व बाबींचा विचार करून गोंडवाना विद्यापीठ गडचिरोलीशी संलग्नित निवडक शैक्षणिक महाविद्यालयात डिजिटलायझेशन संदर्भात काय कार्य झाले आहे/अथवा सुरू आहे या अभ्यास प्रस्तुत शोधकार्यात करण्यात आला आहे.

## 2.0 संशोधन पद्धती

प्रस्तुत संशोधनकार्यात निर्दोश माहिती मिळण्यासाठी व संशोधनाची उद्देशपुर्ती होण्यासाठी सर्वेक्षण व विश्लेषण पद्धतीचा उपयोग करण्यात आला. प्रस्तुत संशोधन अध्ययनामध्ये गुगल फॉर्मद्वारे सर्वेक्षण करून माहिती मिळविण्यात आली आहे.

### 2.1 संशोधनाचे कार्यक्षेत्र:

प्रस्तुत संशोधन करण्यासाठी संशोधन क्षेत्र म्हणून विदर्भातील गडचिरोली जिल्ह्याची निवड केली.

### 2.2 अध्ययन विश्व व जनसंख्या:

प्रस्तुत अध्ययनात गडचिरोली जिल्ह्यातील गोंडवाना विद्यापीठ गडचिरोलीशी संलग्नित सर्व शैक्षणिक महाविद्यालयातील ग्रंथालयांचा अध्ययन विष्व म्हणून विचार करण्यात आला. तसेच, या शैक्षणिक महाविद्यालयात कार्यरत सर्व ग्रंथपालांचा विचार जनसंख्येत करण्यात आला.

### 2.3 नमुना निवड व न्यादर्श:

प्रस्तुत संशोधनकार्या अध्ययनाकरीता रॅन्डम सॅम्पलींग पद्धतीचा वापर करण्यात आला आहे. एकुण 65 ग्रंथपालांची माहिती संकलनासाठी न्यादर्श म्हणून निवड करण्यात आली.

### 2.4 संशोधन आराखडा:

प्रस्तुत संशोधनात वर्णनात्मक संशोधन आराखड्याची निवड करण्यात आली आहे.

### 2.5 तथ्य संकलन - संशोधनाची साधने:

प्रस्तुत अध्ययनात माहिती संकलित करण्याकरिता प्रमाणीकृत पद्धतीचा व प्रश्नावलीचा उपयोग करण्यात आला. अध्ययनाच्या उद्दिष्टांना अनुसरून व वापर करून प्रश्नावली तयार करण्यात आली संशोधनकत्र्याने ग्रंथपालांकडून प्रश्नावली गुगल फॉर्मच्या माध्यमातून भरून घेतली.

### 2.6 सांख्यिकीय विश्लेषण

प्रस्तुत संशोधनकार्यात प्राप्त झालेल्या माहितीचे सांख्यिकीय विश्लेषण करण्यात आले. प्राप्त माहितीवरून वारंवारीता (Frequency) व बहुलक (Mode) काढण्यात आले व माहितीच्या पुढील विश्लेषणाकरीता काई वर्ग मूल्य चाचणीचा (Chi-Square Test- $X^2$ ) वापर करण्यात आला. Significance Level 0.05 निर्धारित ठेवण्यात आली.





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74.	EPP-074	Vishranti M. Dhadate	SKILL INDIA AND EMPLOYMENT - A ROAD MAP AHEAD	43
75.	EPP-075	Amir Ahmed Khan	RELATION OF ATHLETIC IDENTITY WITH TOUGHNESS, ATTITUDE TOWARDS PAIN, INJURY AND HELP SEEKING TENDENCIES OF ALLIGATOR LEVEL PLAYERS OF MAHARASHTRA	44
76.	EPP-076	Aarti B. Padole	ATTITUDES AND AWARENESS TOWARDS ENVIRONMENTAL MANAGEMENT PRACTICE	45
77.	EPP-077	A. N. Shende A. N. Korpenwar R. R. Dahegaonkar	AEROBIOCOMPONENTS IN THE INDOOR ATMOSPHERE OF NAGBHDUMSI	46
78.	EPP-078	Bina Madhukar Moon	COMMERCE EDUCATION IN THE CHANGING BUSINESS WORLD	45
79.	EPP-079	D. S. Wahane R. N. Singru	SYNTHESIS AND EFFECT OF METAL OXIDE ON TRANSPORT PROPERTIES OF POLYPYRROLE COMPOSITE	46
80.	EPP-080	Mohammad Rizwan Sheikh	TECHNOLOGICAL DEVELOPMENT -IT'S IMPACT ON SOCIAL AND NATURAL RESOURCES	46
81.	EPP-081	S. M. Satpute	POPULATION AND ENVIRONMENT	47
82.	EPP-082	Vijaykumar B. Khandate	INNOVATION AND SUSTAINABLE DEVELOPMENT	47
83.	EPP-083	Mangala D. Bansod	IMPACT OF WATER POLLUTION IN ENVIRONMENT AND HUMAN BEING	48
84.	EPP-084	Maroti Uddhaomao Tiple	INTERNET OF THINGS ENABLING TECHNOLOGIES AND ITS APPLICATIONS	48
85.	EPP-085	N. G. Rangari A. S. Lanje	BIO-SYNTHESIS OF ZINC OXIDE (ZnO) NANOPARTICLES USING IXORA COCCINEA PLANT LEAF'S	49
86.	EPP-086	Pratibha Ashok Jiwatode	HUMAN COMPUTER INTERACTION AND EDUCATION A REVIEW	49
87.	EPP-087	Pratibha B. Sakhare Pradeep B. Dahikar	A REVIEW ON GREEN NANOTECHNOLOGY KEY TO ENHANCE ENVIRONMENTAL SUSTAINABILITY AND HUMAN HEALTH MEDICINE	50
88.	EPP-088	Rahul Arun Ghotekar	NEED OF AN ECO-ENVIRONMENTAL SUSTAINABLE DEVELOPMENT IN INDIA	50
89.	EPP-089	Rajeshkumar Wamanrao Soor	THE ECONOMICS OF ENVIRONMENT, CULTURE AND SOCIETY	51
90.	EPP-090	Rita Sontakke (Sheware)	THE PORTRAYAL OF ECO-CRITICISM IN INDIAN ENGLISH LITERATURE - A BRIEF STUDY	52
91.	EPP-091	S. D. Gubbawar	ENVIRONMENTAL RESOURCES AND MANAGEMENT A REVIEW	52
92.	EPP-092	Kiran Kumar Manure SUNIL M. SAKURE	A STUDY OF WOMEN SARPANCHES IN PANCHAYATS AND DISCRIMINATION	53
93.	EPP-093	Surekha M. Ningade Sanjay W. Patil Rajesh R. Dahegaonkar	DECCAN INTERTRAPPEAN LOCALITIES OF CHANDRAPUR DISTRICT (M.S.) INDIA	53
94.	EPP-094	Roshan P. Gajbhiye	ROLE OF LIBRARIES CHANGING AND DEVELOPMENT OF SOCIO-ECONOMICS IN SOCIETY	54
95.	EPP-095	S. M. Kowe R. R. Dahegaonkar Dahegaonkar N. R., S. D. Petkar	IMPACT OF PHYSICO-CHEMICAL PARAMETERS ON DIVERSITY OF PHYTOPLANKTON OF ERAI RESERVOIR OF CHANDRAPUR DISTRICT, MAHARASHTRA, INDIA	54



## ENVIRONMENTAL RESOURCES AND MANAGEMENT: REVIEW\*

BY

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### Abstract

The leading global provider of safety, risk, environmental, etc is ERM-Environmental Resources Management. Around the world they are having offices more than 160 in almost 40 countries and territories in which people more than 4500 are working on it. Their commitment is to provide consistent and professional service that is for the clients and that is of the highest quality to create values for them. They have been working with almost 500 global fortune companies that help to deliver innovative ideas for the business and the one who is helping them in understanding and managing the challenges are the clients of selected government. For the purpose of helping them in understanding and managing their risks, safety, etc, they are working with clients from all over the world and also in the sectors of diverse industry for more than 40 years. Oil and gas, mining, power, etc are the key sectors in which they are providing services. The ability of assisting them in operating more sustainability which is giving positive impact on the earth are the factors on which all critical sustainability challenges and clients in such areas reply upon.

**Key words:** Environmental, resources, management etc.

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### Introduction

This concept is for sure dynamic and emerging one. It is basically concerning with management for the environment that encompasses a business. For implementing an environmental corporate policy, it is representing responsibilities sequence, processes, etc. All the organism that are inanimate and the forces that are functioning in the nature are brought together by the environment and that includes men also.

There are basic functions of managing good environment and those are:

- "goal setting"
- "information management"
- "Support of decision making"
- "organizing and planning of environmental management"

- "environmental management programs"
- "piloting"
- "implementation and control"
- "communication"
- "Internal and external auditing, etc".

It has become important for broadening the understanding of the management of the natural environment by the present situation of economic development that also includes the environmental state. In the coming year it, the way in which industrialization is emphasizing for economy's development, it will be ecological nightmare for the environmental pollution.

Taking into account the consequences related to ecology has become important at the time of creating an industrial unit. For reducing the pollution, we are having technology and therefore it must be used properly for correcting excesses of brutality that is happening on ecology and also for minimizing environmental degradation's degree.

### **Environment and natural resources**

We can observe pressure mounting on the scarce natural resources due to growth in the population and changes in the climate. Functioning and the quality of the watershed and the land those are irrigated are getting deteriorated, as the growth for the demand of water is growing in uses of households, industries and agriculture. Particularly in the countries that are developing, we can see increase in salinization, deforestation, etc. "As a result, precious natural resources—from fertile soil to freshwater streams—are rapidly diminishing, with devastating impacts on the poor, who rely on these resources to generate most of their income and subsistence goods".

### **Importance of Environmental Management**

All the conditions that are needed for corporate sector's survival are taken into consideration by the environment. Serious damage in ecology can be made because of the absence of the considerations on environment. We can observe that the one that are creating unparallel social and environment related issues at both the levels i.e., national and global are poverty, lacking of the resources, pressure of the population and resources' inequity globally. There is tendency for striking balance in between economic development's demands and urge for the management in the process of environment by sustainable development. "Precise knowledge of various facets of sound environmental management is the sine qua non for sustainable development which meets not only the requirements of the present generation but also of the future generation". With particular focus on environment, the management is particularly valuable for the initiatives of internal management such as supply chain management, cleaner production, etc.

They are also using the data of the type of environmental management for the purpose of