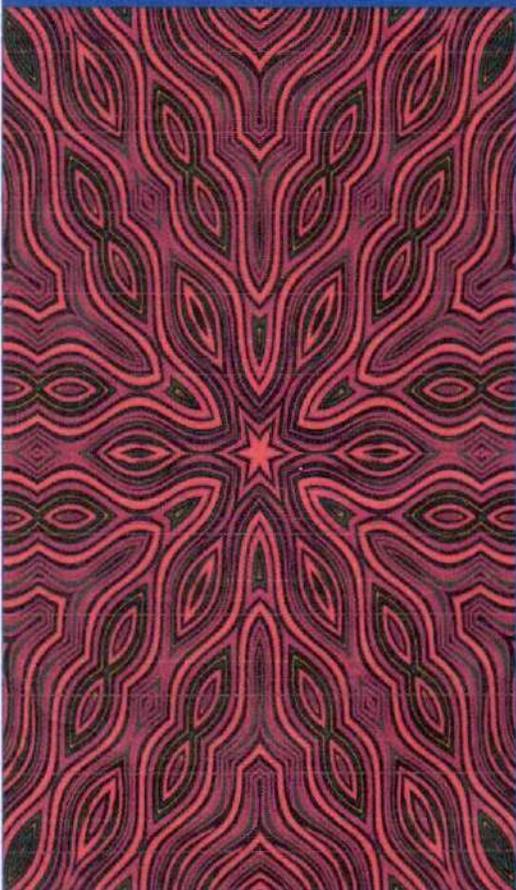


Film has emerged as one of the leading Arts in the present scenario. Even in the underdeveloped countries like India, the film industry has captured a considerable part of the socio-economy. Many times it reflects society, subsequently people construct their ideas like protest, fantasy, passion, devotion, family, nation etc. through the films and vice versa. In short, it not only tenders interests of every age, gender, class, caste and creed but solidly engages them to enhance their understanding of certain concepts. The audio-visual nature of film makes one understand the surrounding rather than 'lyrics', 'theater' and 'pocket-theater' that are the traditional tools to understand human society. Films always blend social reality and the fantasy of youth. The audiences try to understand society and eulogize their dreams through the films.

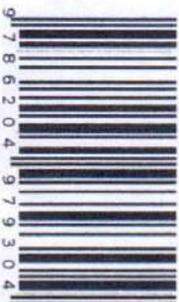


Madhav Yeshwant

Films: A Kaleidoscopic View



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Films: A Kaleidoscopic View

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William Shakespeare from Stage to Page to Screen

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Abstract:

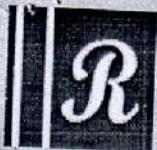
Shakespearean tragedies have been a perennial source of inspiration for all filmmakers across the world. There are many feature-length film and TV versions of William Shakespeare's plays as having been produced, making Shakespeare the most filmed author ever in any language. The practices of displacing the settings is commonly applied to Shakespeare's plays both on stage and screen in order to create the effect of poetry Shakespeare movies are so numerous; they form their own sub-genre. However, the plays are always altered and modified to fit into the context of Indian Cinema and thus, sometimes the movie is unable to do justice to the original script of Shakespeare. In Bollywood Shakespeare has found many admirers, who have turned his plays and stories into Bollywood blockbusters

Keywords: Indian Cinema, setting, Bollywood blockbusters

Introduction:

Hindi cinema, often known as Bollywood, is recognized as the largest film producing industry in the world. It produces films in a variety of genres, like comedy, tragedy, satire, action, romantic, etc. Among these various genres, adaptation films are also seen now and then in the industry. Adaptation is a specific process which includes the changeover of one genre to a new genre: novels and plays into films or musicals, or film adaptation is the transfer of a work or story into a feature film. In doing so, breakdown its original form and structure and add something new to make it more taken as a turn of modification.

Shakespeare tragedies have been a perennial source of inspiration for all filmmakers across the world. There are many feature-lengths film and TV versions of William Shakespeare's plays as



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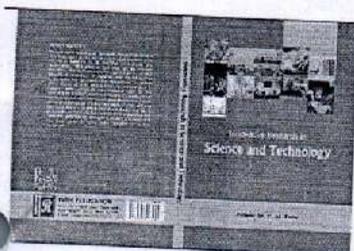
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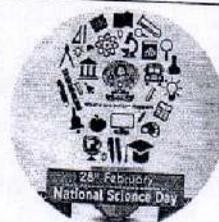
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Letter of Gratitude

To,

Dr. J. M. Bhandari

Department of Physics, Shri Amolak Jain Vidya Prasarak Mandal's
Smt. S. K. Gandhi Arts, Amolak Science and P. H. Gandhi Commerce College,
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Ferrite**, has been accepted. It has also been published on Date, 28 Feb. 2022 on the occasion
of National Science Day.

So, I express my sincere gratitude for your valuable contribution to this academic enterprise.

We appreciate your academic work and expect the same in future also.

With warm regards

Dr. Surekha S. Lakkas
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Initial Permeability Studies of Copper Substituted Nickel Ferrite

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ABSTRACT

Polycrystalline soft spinel ferrite samples having the chemical formula $Ni_{1-x}Cu_xFe_2O_4$ with varying x ($x = 0.0, 0.2, 0.4, 0.6, 0.8, 1.0$) were prepared by standard ceramic technique. The formation of single phase cubic spinel structure of all the samples was characterized by X-ray diffraction technique. X-ray diffractograms did not show any impurity phases. The values of lattice constant increases as Copper (Cu^{2+}) percentage increases. The initial permeability μ_i was measured by measuring inductance (L) using LCR-Q meter. It is found that μ_i increases with Cu substitution. Curie temperature measured through permeability versus temperature plot.

Keywords: Spinel Ferrite, Initial Permeability, Curie temperature.

1. INTRODUCTION

The magnetic oxides, namely ferrites, having the formula MFe_2O_4 have been investigated extensively by many workers because of their interesting combined property of magnetic conductor and electrical insulator. They are of great importance to the technologists and academicians owing to their remarkable electrical and magnetic properties. The high electrical resistivity, low eddy current and dielectric loss, high saturation magnetization, chemical stability etc. are the important aspects of ferrite material which make them useful in many applications. These aspects are highly sensitive to the preparation methodology [1], amount of constituent metal oxide [2], sintering condition [3] etc. Usually, ferrites are prepared by ceramic technique. It is well-known that the properties of ferrite materials are influenced by the material composition and microstructure. The sintering temperature, sintering time, sintering atmosphere etc. also plays an important role in governing the properties of ferrites [4].

Spinel ferrites are important in several applications, hence studies of structural, electrical, magnetic and other properties of spinel ferrites is very essential [5-6]. The interest in these materials is sustained till date because of their applications in the field of drug delivery, multilayer chips, magnetic recording, sensors, catalysts, etc. The substitution of divalent, trivalent and tetravalent ions in spinel ferrites leads to diversification in various properties. The properties of spinel ferrites can be modified by substituting the various kinds of cations. In the literature, many reports are available on the structural, electrical and magnetic properties of Zn, Cd, Al, Cr, Ti, Mn substituted spinel ferrites [7-8].

In the present work, the properties of Nickel ferrites were modified by substituting Cu^{2+} ion in place of Ni^{2+} ions with a view to improve the permeability properties. We report the structural and initial permeability studies of $Ni_{1-x}Cu_xFe_2O_4$ with $x = 0.0, 0.2, 0.4, 0.6, 0.8, 1.0$.

2. MATERIALS AND METHOD

NiCu spinel ferrites of the chemical composition $Ni_{1-x}Cu_xFe_2O_4$ with $x = 0.0, 0.2, 0.4, 0.6, 0.8, 1.0$ were prepared by using the standard ceramic method. A.R. grade NiO, CuO and Fe_2O_3 were used for the preparation of ferrite as a raw material. The compositions of these ferrites are shown in Table 1. The oxides were mixed thoroughly and ground in stoichiometry proportion. First pre-sintering of powder was carried out at 1225K for 12 hr. The sintered powder is again reground and sintered at 1375K for 12 hr. To measure the initial permeability toroids of outer diameter 2 cm and inner diameter 1 cm are prepared. The prepared samples were characterized by X-ray powder

diffractometer (Phillips X-ray diffractometer, Model PW 3710) using Cu-K α radiation ($\lambda = 1.5406\text{\AA}$) in the 2θ range 200-800.

Table 1: Chemical composition of various components of Ni_{1-x}Cu_xFe₂O₄ system in mole percentage.

Composition x	NiO	CuO	Fe ₂ O ₄
0.0	50	0	50
0.2	40	10	50
0.4	30	20	50
0.6	20	30	50
0.8	10	40	50
1.0	0	50	50

3. RESULTS AND DISCUSSION

The structural characterization of all the samples of spinel ferrite system Ni_{1-x}Cu_xFe₂O₄ with x = 0.0, 0.2, 0.4, 0.6, 0.8, 1.0 was carried out using X-ray diffraction technique. Results indicate that these oxides crystalline with a single spinel cubic structure. Fig.1 shows the typical X-ray diffraction (XRD) pattern of Ni_{1-x}Cu_xFe₂O₄ (for x = 0.4) spinel ferrite system. The XRD patterns indicates that all the composition exhibits single phase cubic spinel structure and exclude the presence of any secondary phase. The Bragg's reflection observed in XRD pattern are intense and sharp. The XRD pattern shows the reflections (220), (311), (222), (400), (422), (511), (440) and (533) belonging to cubic spinel structure. The analysis of XRD pattern reveals the formation of single phase cubic spinel structure. No extra peak has been detected in the XRD pattern.

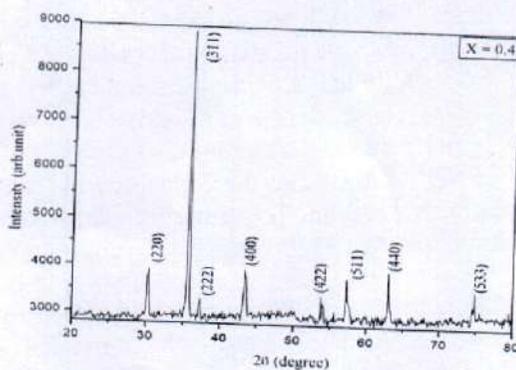


Fig. 1: XRD patterns of Ni_{1-x}Cu_xFe₂O₄ for x = 0.4

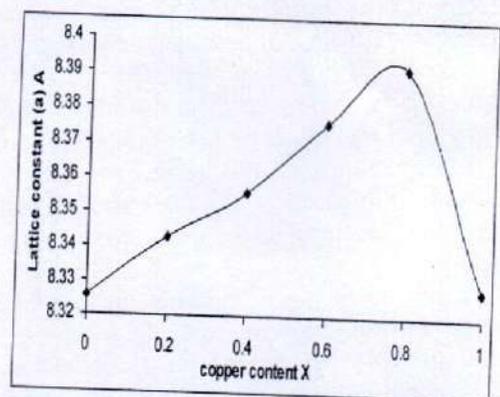


Fig.2: Variation of lattice constant (a) with copper content x for the system Ni_{1-x}Cu_xFe₂O₄

Using XRD data the inter planer spacing (d) was calculated using Bragg's law and the values of lattice constant (a) of all the samples was calculated by the relation

$$a = d_{hkl} (h^2 + k^2 + l^2)^{1/2} \tag{1}$$

Where, 'a' is the lattice constant, d is inter planer spacing and (h k l) is the Miller indices.

The values of lattice constants are given in the Table 2. The variation of lattice constant 'a' with composition x is shown in Fig. 2. From Fig. 2 it is observed that lattice constant increases with Cu substitution. The increase in lattice constant is related to the difference in ionic radii of copper and nickel. In the present case, nickel ions with ionic radii 0.69 Å are replaced by copper ions of ionic radii 0.72 Å, and hence lattice constant of the NiCu system increases with increasing copper content.

The variation of permeability μ_i was measured as a function of temperature. The initial permeability μ_i was calculated using the following relation.

$$L = 0.0046N^2h\mu_i \text{Log}_{10} \left(\frac{d_2}{d_1} \right) \tag{2}$$

HUMAN RESOURCES ACCOUNTING IN BUSINESS ENTERPRISES

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Her research interests include, subject in human resource accounting, valuing intangibles and management intervention into handicrafts.

Contents

Introduction • Literature Review • Research Design • Discussion • Research and Managerial Implications • Implications



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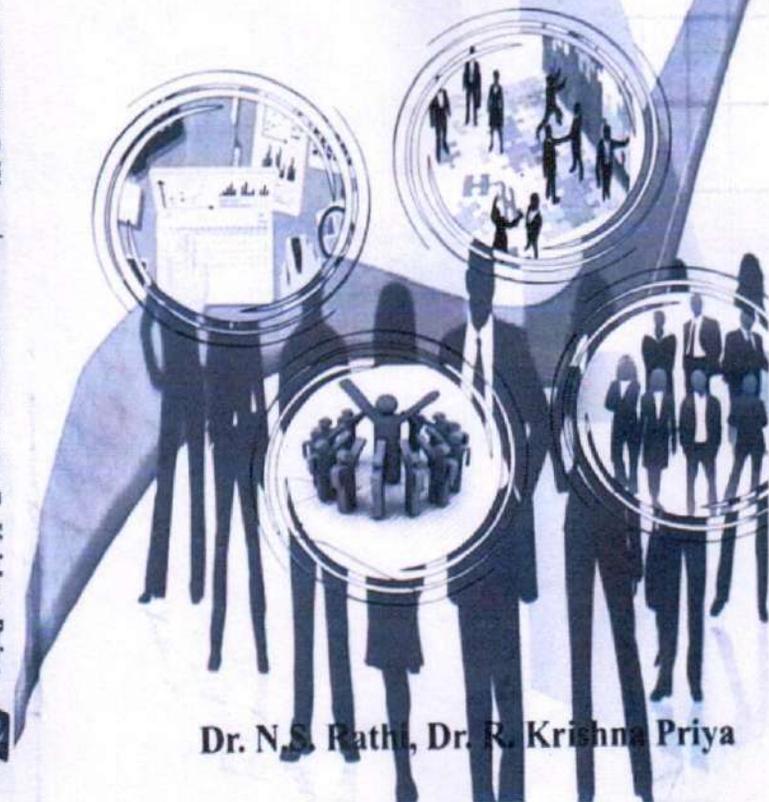
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HUMAN RESOURCES ACCOUNTING IN BUSINESS ENTERPRISES



Dr. N.S. Rathi, Dr. R. Krishna Priya

A Study of Rural Settlements in Ahmednagar District

Sanjay Mahadeo Shinde



Sanjay Mahadeo Shinde



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A Study of Rural Settlements in Ahmednagar District Sanjay Mahadeo Shinde

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BIOGEOGRAPHY

Dr. Udhav Eknath Chavan

Biogeography is the vital link between natural and social sciences and an important tool to place both of them in the right perspective. Biogeography, study of the geographic distribution of plants and animals. It is concerned not only with habitat patterns but also with the factors responsible for variations in distribution. Biogeography is concerned with the phenomena of the biosphere. More specifically and traditionally, biogeography has concerned itself with the study of the geographical aspects of plant and animal life, especially in terms of their distributions. This branch of geography is concerned with the multitudinous forms of plant and animal life which inhabit the densely populated zone over the earth's surface, as well as the complex biological activities which are controlled by natural environment. Biogeographic studies divide the Earth's surface—primarily the continents and islands—into regions exhibiting differences in the average composition of flora and fauna. It is thought that the present-day distribution patterns of plant and animal forms, as reflected in such biogeographic regions, are the result of many historical and current causes. These causes include present climatic and geographic conditions, the geologic history of the landmasses and their climates, and the evolution of the taxon (e.g., genus or species) involved. Investigators have found that rate of dispersal, adaptability to prevailing environmental conditions, and the age of the taxa being studied also have a significant impact on pattern and extent of distribution. This book, written as an introductory manual on biogeography caters perfectly to needs of students of geography or the biological sciences. Serving as an essential key for understanding biodiversity, biogeography is one the most relevant, as well as increasingly studied scientific disciplines today.

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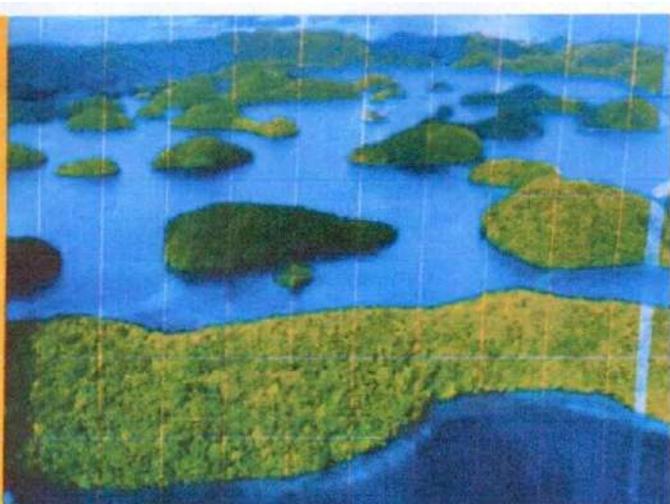
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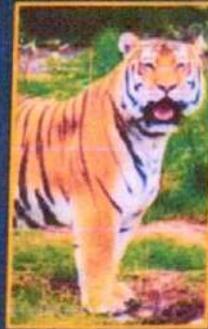
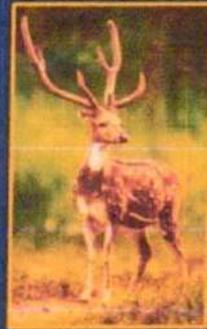


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Dr. Udhav Eknath Chavan



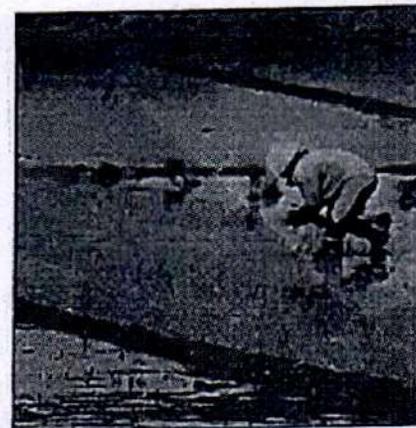
BIOGEOGRAPHY



Dr. Udhav Eknath Chavan

Agricultural Economics

Dr. Ashok M. Korade
Miss. Anuradha Paulbudhe



Agricultural Economics

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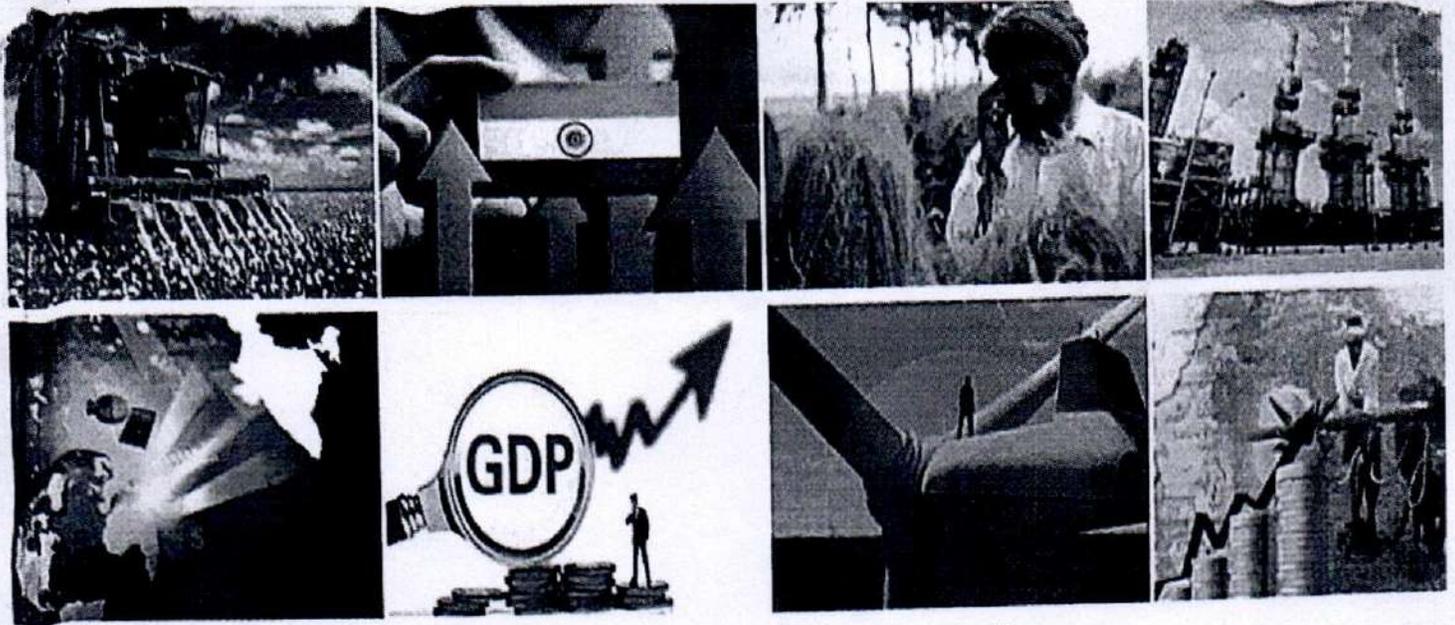


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Dr. Ashok M. Korade
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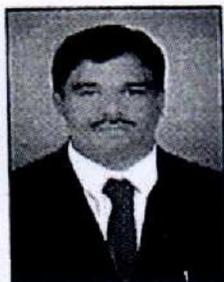


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Business Ethics and Corporate Governance

Dr. Ashok M. Korade
Mr. Kishor Baburao Dalve



Business Ethics and Corporate Governance

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Business Ethics and Corporate Governance

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Mr. Kishor Baburao Dalve is a research scholar pursuing Ph.D in Management Science at Mahatma Gandhi Mission University, Aurangabad (Maharashtra). He completed graduation in B.B.A with specialization in Agriculture then M.B.A in Rural and Agri Business Management and Dual M.B.A in Human Resource Management. He got "Excellent Agri Student State Level Award" from 'Krishithon' at Nashik (M.S). He is an author of higher educational 2 reference books. He participated in 26 National Webinars, 2 National Workshops, 4 National and International Conferences also he published 2 Research papers in National Journals.

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Introduction of Business Ethics ❖ Evaluating Business Ethics ❖ Ethics at workplace ❖ Environmental Ethics ❖ Corporate Governance ❖ The Board and Corporate Governance ❖ Corporate Governance and their Stakeholder Rights ❖ Corporate Social Responsibilities (CSR) and Sustainability ❖ Corporate Governance in Banks and Insurance Companies ❖ Management of Business Ethics, Risk Management and Internal Control.

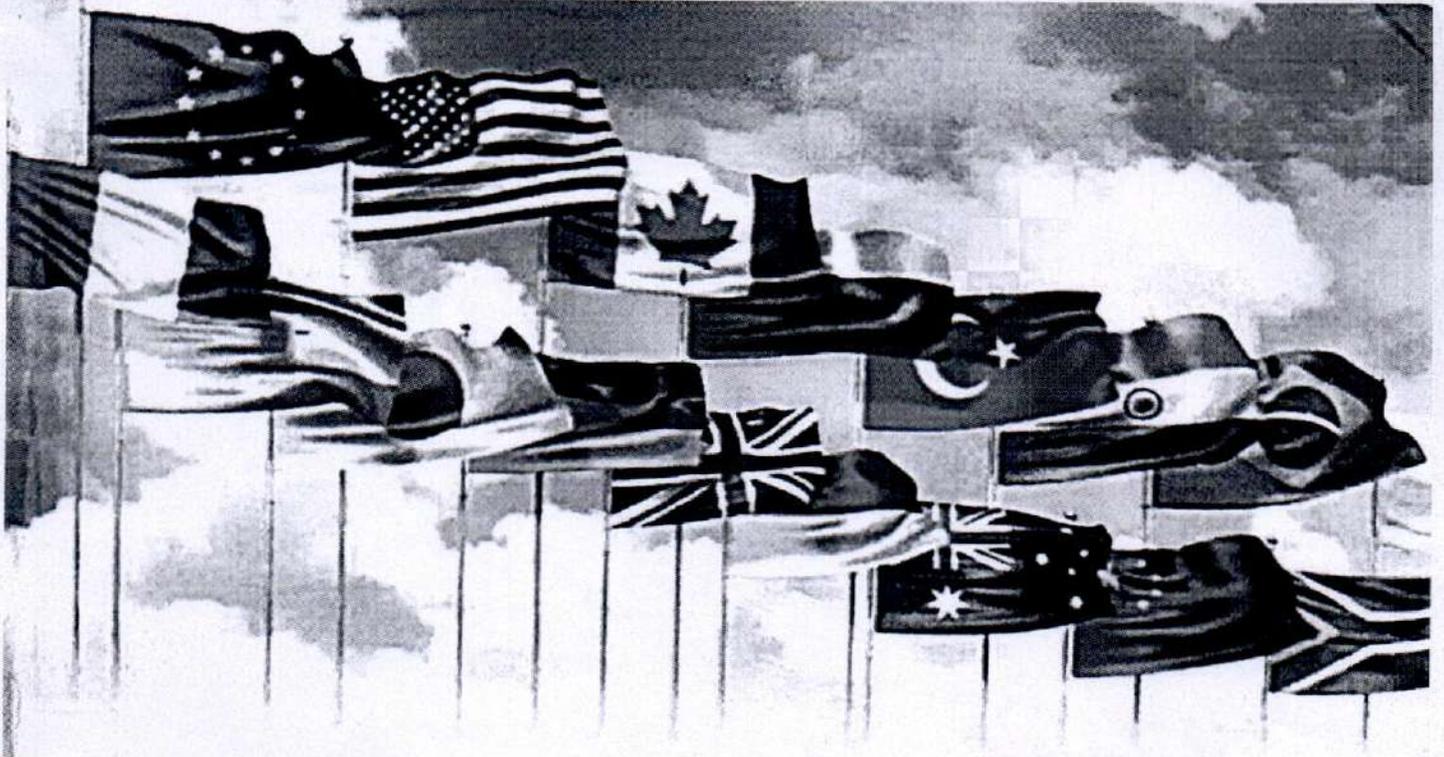


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AGRO-TOURISM

The Way of Sustainable Development

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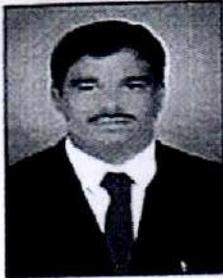
Concept and classification of entrepreneurs; Role of Entrepreneurship development in Agro-Tourism ; Core business information for every successful entrepreneur; (Sources & Methods of raising finance, Types of Demand, Types of market structure, Break Even Analysis, Classification of budgets, Types of risk, Types of working capital)

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Agro-Tourism

the way of sustainable development

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GEOMORPHOLOGY

DR. UDHAV EKNATH CHAVAN

Geomorphology is the study of the nature and history of landforms and the processes which create them. Initially, the subject was concerned to investigate the history of landform development but in this evolutionary approach has been added a drive to understand the ways in which geomorphological processes operate. Geomorphology is closely allied with a number of other scientific disciplines that are concerned with natural processes. Fluvial and coastal geomorphology rely heavily on fluid mechanics and sedimentology, studies of mass movement, weathering, wind action, and soil stress on the atmosphere, sciences, soil physics, and chemistry, and soil mechanics; research on certain landform types entails the principles and methods of geophysics and volcanology; and the study of human impact upon landforms relies on the disciplines of geography and human ecology. Basically, geomorphology is the branch of geology that is concerned with the structure, origin, and development of the topographical features of the earth's crust. Remote sensing may be taken to mean the observation of an underlying information about a target by a device separated from it by some distance. Geomorphologists can piece together the history of such places by studying the remaining landforms and the sediments - often the particles and the organic materials, such as pollen, berries, diatoms and microfossils preserved in the sediments, and peat, can provide evidence on past climate change and processes. It is hoped that the scholars working in the field of applied geomorphology, geology, settlement and land use planning, environmental management, civil engineering and other allied disciplines will benefit from this work and will be quick to follow the methods and techniques used therein to achieve their objectives.

CONTENTS

Historical and Present Geomorphology Theories • Techniques and Fieldwork (including field experiments) in Geomorphology • The Geomorphic System • Concepts of Geomorphology • Cosmology, Response, and Geomorphologic Thresholds • Space and Time in Geomorphology • Quantitative Morphology • Fractals in Geomorphology, Remote Sensing and GIS • Applied Geomorphology: Nature and objectives • Geomorphologic Hazards • Fluvial • Coastal and Slope • Applied Fluvial Geomorphology • Applied Geomorphology in Coastal Zone Management



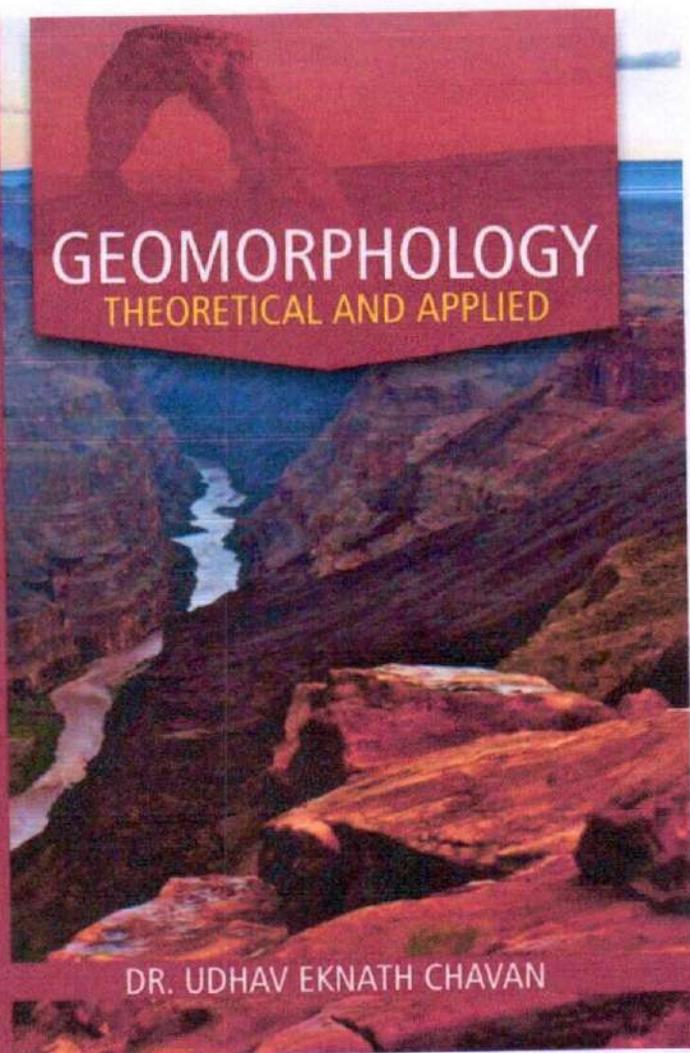
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DR. UDHAV EKNATH CHAVAN

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Introduction to Oceanography

Dr. Udhav Eknath Chavan

Oceanography, alternately known as oceanology or marine science, is a branch of science that studies the open oceans, coastal regions, and seas. The science of oceanography covers a wide variety of aspects and is equally interdisciplinary. Oceanographers are the measurement of oceanic currents, influences of environmental factors on the direction and strength of currents, marine life including its diversity and threats to that diversity, the generation and dynamics of waves, and the interaction of the ocean and the atmosphere. Oceanography applies chemistry, geology, meteorology, biology, and other branches of science to the study of the ocean. It is especially important today as climate change, pollution, and other factors are threatening the ocean and its marine life. Comprising more than 70 percent of Earth's surface, the world's oceans are so vast as to remain unexplored in an enormous way. Navigating these imposing seas and unlocking their secrets is the calling of oceanographers. Oceanography is broader than the sum of its disparate branches. Oceanographers use a variety of tools to study the ocean, and many of these studies involve more than one branch. Oceanographers collect surface, seafloor, and biological samples using ships (Research Vessels). They deploy autonomous sampling systems such as buoys and gliders to collect data over time and space, scales that cannot be done with a ship. Remote sensing from aircraft and satellites allows oceanographers to get a global view of some parameters. Modeling allows oceanographers to look at the past and predict the future state of the ocean (for circulation, sea level rise, salinity, and other parameters of water, etc.). Providing an accessible treatment of physical oceanography, it is perfect for intermediate, advanced students wishing to gain an interdisciplinary introduction to climate science and oceanography.

Contents

Viscosity of Seawater • The Physical Setting • Atmospheric Influences • The Oceanic Heat Budget • Temperature, Salinity, and Density • The Equations of Motion • Equations of Motion with Viscosity • Response of the Upper Ocean to Winds • Geostrophic Currents • Wind-Driven Ocean Circulation • Salinity in the Ocean • Deep Circulation in the Ocean • Equatorial Processes • Numerical Models • Ocean Waves • Coastal Processes and Tides



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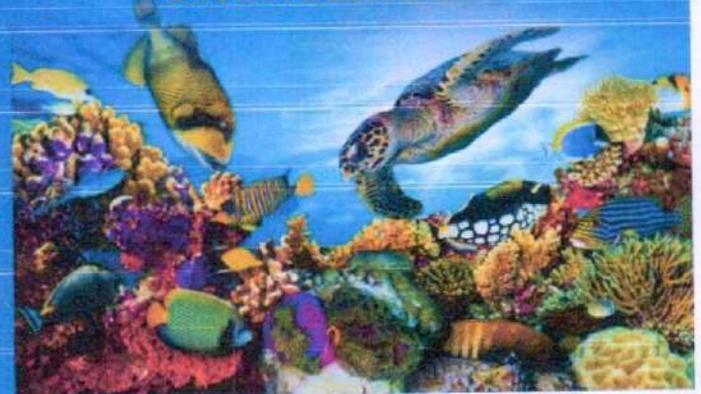
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Dr. Udhav Eknath Chavan



GEOGRAPHY OF SOUTH ASIA

DR. UDHAV EKNATH CHAVAN

South Asia, subregion of Asia, consisting of the Indo-Gangetic Plain and peninsular India. It includes the countries of Bangladesh, Bhutan, India, Pakistan, Nepal, and Sri Lanka; Afghanistan and the Maldives are often considered part of South Asia as well. The term is often used synonymously with "Indian subcontinent", though the latter term is sometimes used more restrictively to refer to Bangladesh, India, and Pakistan. South Asia's Himalaya Mountains are the highest in the world, rising to over 8,800 meters (29,000 feet). Yet, these are also some of the world's youngest mountains, reflecting a region that has experienced significant physical and cultural changes throughout its history. Here, we find one of the earliest and most widespread ancient civilizations, the hearth area for several of the world's great religions, and a region whose population will soon be the largest on Earth. The region is bounded to the north by a series of mountain ranges—the Hindu Kush to the northwest, the Karakoram Range in the central north, and the Himalayas to the northeast. South of the mountains is the Indo-Gangetic Plain, formed from the combined alluvial plains of the Indus, Ganges (Haryana), and Brahmaputra rivers, which lie in a deep troughed depression running north of and parallel to the main range of the Himalayas. It is an area of subsidence into which thick accumulations of earlier marine sediments and later continental deposits have washed down from the rising mountains. Studying the geography of South Asia can also be a way to better understand the people who created or commissioned works of art. In addition, maps and depictions of landscapes can provide insight into transitions of political power, the territorial desires of rulers, as well as the places where artists lived and worked. Contemporary maps of the Indian subcontinent often utilize satellite images and focus on geo-political boundaries. But these contemporary maps are only one perspective of the geography of South Asia. This book attempts to explore the possibility of discovering the roots of unity of the South Asian countries.

Contents

South Asia as Territorial Entity • Physical Issues I: Geology • Physical Issues II: Climate Soils and Vegetation • Relief and Drainage • Agricultural Systems in South Asia: Nature and Contemporary Crisis • Urbanization: Levels and Pattern • Contemporary Issues • South Asia in the Global Economy: Industry • Tourism and Trade • South Asia as a Region in the World System • Population • Poverty and Development • Migration: Trends and Issues • Water Distribution Disputes • Major Environmental Issues • Border Disputes • Regional Integration and Cooperation: SAARC, Introduction and Future Challenges.



Dr. Udhav Eknath Chavan has been working as an Associate Professor of Geography, Head of department of geography (UG & PG) from 1999. He obtained his post graduate degree from University of Pune, M.Phil. from Yashwantrao Chavan Pratishthan, Pune and Ph.D. in Agricultural Geography from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. He started his professional career as an Assistant Professor in Geography in Shri. Amolak Jain Vidya Prasthok Mandal's Smt. S.K. Gandhi Arts, P.H. Gandhi Commerce & Amolak Science College, Kado, Tu, Ashi Dist., Boud. He has been actively engaged in teaching, learning, evaluation and Research for the past twenty years. He has travelled abroad and participated in international conference, presented paper. He published his two dozens of paper in international ISSN journals. He edited Amolak Special Issue Book on Environment Conservation and Geography National Conference research paper ISSN Journal in 2012. He has been actively participated in National and International conference and seminars. He is Life member of Deccan Geographical Society of India Pune. He working in paper series for UG & PG level in Aurangabad University. He has been awarded with Shalodhanan ISSN journal best paper award and 2013, GIS expert National Award by Schell Informatics Pvt. Ltd. Pune. He has been completed twenty one days GIS & Remote Sensing training programme sponsored by ISSRO/ANISS & UTP, Jaipur.

GEOGRAPHY OF SOUTH ASIA

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HEALTH GEOGRAPHY

DR. UDHAV EKNATH CHAVAN

Health geography is the application of geographical information, perspectives, and methods to the study of health, disease, and health care. Medical geography, a sub-discipline of a sister field of health geography, focuses on understanding spatial patterns of health and disease as related to the natural and social environment. The study of health geography has been influenced by repositioning medical geography within the field of social geography, due to a shift towards a social model in health care, rather than a medical model. This advocates for the redefinition of health and health care away from prevention and treatment of illness only to one of promoting well-being in general. Geography and health are inextricably linked. Where we are born, live, study and work directly influences our health experiences; the air we breathe, the food we eat, the viruses we are exposed to and the health services we can access. The social, built, and natural environments affect our health and well-being in ways that are directly relevant to health policy. Health geography considers the significance for physical and mental health of interactions between people and their environment. It investigates why space and place are important for health variation in the population. Approaches in health geography are diverse, drawing on different ways of conceptualizing space, place, and health. This book is the application of geographical information, perspectives, and methods to the study of health, disease, and health care. It explores the patterns, causes, and spread of disease, environmental hazards, environmental mediators of health behaviors, and the planning and revision of health services.

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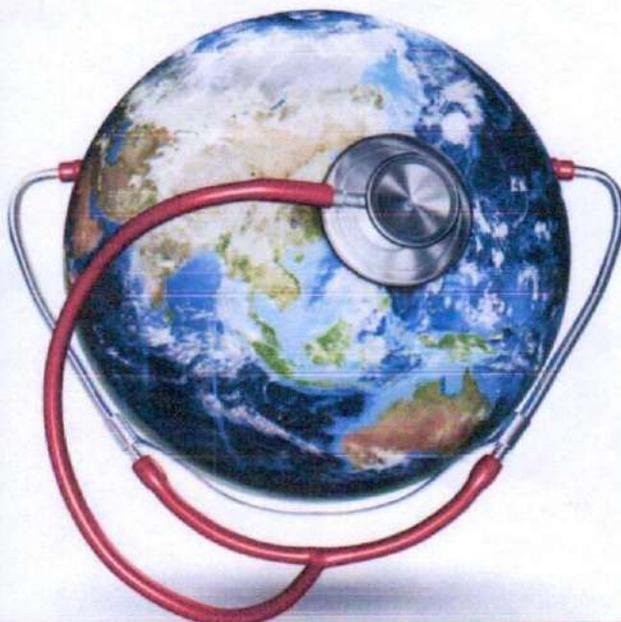
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Smt. S. K. Gandhi College, Kada.

INTRODUCTION:

After the independence of India there are so many problems in every sector. The political leaders do not have a much more experience to resolve the various issue. The government has been sponsored so many program to address the various issues in the country. To address these issues government established the University Education Commission, Secondary Education Commission and University Grants Commission. In 1968 the first education policy was announced by the government of India. This is a first policy on education after independence. This policy based on the report and recommendation of Kothari Commission (1964). This policy called for a “radical restructuring” and proposed equal educational opportunities in order to achieve national integration and greater cultural and economic development.

In 1986 new national policy on education was introduced by the government of India. This is a second policy on education, this policy called “special emphasis on the removal of disparities and to equalize educational opportunity” especially for Scheduled Caste (SC), Scheduled Tribes (ST) and women’s. This policy also modified in 1992 by the government of India on the basis of “Common Minimum Program”.

In 2020 the government of India introduced the “National Education Policy 2020”. It based on the principle of education must develop not only cognitive capacities both the ‘fundamental Capacities’ of literacy and numeracy



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ग्रामीण भागातील उच्च शैक्षणिक संस्थांची स्थिती आणि आव्हाने

डॉ. एस. आर. मगर

श्रीमती. एस. के. गांधी महाविद्यालय,
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सारांश:

"भारताला शैक्षणिक परंपरा फार प्राचीन काळापासून लाभलेली आहे, याचे पुरावे वैदिक काळापासून मिळतात. आज देशातील ग्रामीण भागामध्ये उच्च शिक्षण पोहचले आहे. देशात उच्च शिक्षणाचा दर्जा सुधारावा म्हणून भारत सरकारने वेळोवेळी विविध समित्या आणि आयोगाची स्थापना केली होती. यामध्ये प्रामुख्याने १९६४ सालीकोठारी आयोग, १९६८ चे राष्ट्रीयशैक्षणिक धोरण, १९८६ चे राष्ट्रीयशैक्षणिक धोरण, १९९२ चे सुधारिक राष्ट्रीय शैक्षणिक धोरण आणि २०२० मधी नवीन राष्ट्रीयशैक्षणिक धोरणाचा समावेश होतो. याबरोबरच देशातील शैक्षणिक संस्थांची गुणवत्ता सुधारावी म्हणून २००५ साली राष्ट्रीय ज्ञान आयोगाची स्थापना करण्यात आली आहे. आज देशातील ग्रामीण भागातील शैक्षणिक संस्थांची स्थिती जरी थोड्याफार प्रमाणात सुधारली असली तरी त्यांच्या समोर बरीच आव्हाने आहेत. या आव्हानामध्ये प्रामुख्याने अपुरे संसाधन, शैक्षणिक जनजागृती, अपुरे आर्थिक स्त्रोत, अपुन्या पायाभूत सुविधा, शैक्षणिक साधनाची कमतरता, औद्योगिक क्षेत्र आणि शैक्षणिक संस्थांमधील समन्वयाचा अभाव, विद्यार्थ्यांची गळती, रोजगाराची कमतरता आणि संशोधनाची कमतरता इत्यादी."

प्रमुख शब्द: ग्रामीण, धोरण, संसाधन, गुणवत्ता, आव्हाने,

उद्देश: देशातील ग्रामीण भागातील उच्चशिक्षणाची स्थिती जाणून घेणे. उच्च शिक्षणा संस्था समोरील आव्हानांचा आढावा घेणे.

व्याप्ती: देशातील ग्रामीण भागातील उच्चशिक्षणाची स्थिती काय आहे आणि उच्च शिक्षण संस्था समोरील आव्हाने काय आहेत याची माहिती करून घेणे.

मर्यादा: ग्रामीण भागातील उच्च शिक्षणाच्या स्थितीचा अभ्यास करणे. उच्च शिक्षणा समोरील आव्हानांची चर्चा करणे.

प्रस्थावना:

समाजाचा किंवा व्यक्तीचा विकास व्हायचा असेल तर शिक्षणाशिवाय दुसरा पर्याय नाही. देशाचा विकासशैक्षणिक गुणवत्तेवर अवलंबून असतो. आज जगातील प्रत्येक देश त्याच्या देशातील मनुष्यबळास उच्च शिक्षित करण्यासाठी विविध योजना राबवत आहे. म्हणूनच २१ वे शतक हे ज्ञानाचे शतक म्हणून ओळखले जात आहे. व्यक्ती, समाज आणि राष्ट्राच्याविकासामध्ये शिक्षणाचे स्थान अनन्यसाधारण आहे. भारताला शैक्षणिक परंपरा फार प्राचीन काळापासून लाभलेली आहे. वैदिक काळामध्ये गुरुकुल पद्धत, उपनयन, गुरुसेवा, अध्ययन आणि पठण, इत्यादी पद्धती अस्तित्वात होत्या. प्राचीन काळातील



Principal

Shri Amlok Jain Vidya Prasarak Mandal's
Shrimati Shantabai Kantilal Gandhi
Arts, Amolok Science, Panalal Miralal
Gandhi Commerce College
Kada, Tal. Ashti, Dist. Beed

MODERN OBJECTIVE BOTANY

The study of Botany, dealing with the structure, function, classification and evolution of plants, has inspired many great minds. Plants are unique as solar energy converters and providers of energy for all heterotrophic organisms. It is fascinating to study the wide spectrum of reproductive processes in algae, fungi, lichens, bryophytes, gymnosperms, and flowering plants. Botany is one of the main branches of Biology (zoology being the other); it is the systematic and scientific study of plants. Botany covers a lot of scientific discipline, such as chemistry, pathology, microbiology etc. Botany also covers specific sciences that caters for a specific study area in plant life such as Photochemistry that deals with chemical reaction, product and chemical derivatives in plants as well as its effects on other biological species, Plant Anatomy and Morphology which deals with structures, evolution, process and mechanism of plant parts and Taxonomy which is the science of describing, naming, and classifying of organisms. New sciences such as Genetic Engineering which caters the issue of Genetically Modified Organism (GMO), Economic Botany which deals on how to utilize the plant kingdom and even Forensic Botany that uses plant to find clues for crimes. This book includes classification, different groups of plants and scope of Botany etc. which may be helpful for the students. The book effectively guides the students to facilitate their work in laboratory. Useful for degree and post-graduate students of Botany.

Contents

Introduction to Botany • Anatomy of Plants • Classification of plants • Benefits of Economic Botany • Basics of Algae • Characteristics of Fungi • General characters and classification of Bryophyta • Pteridophyta • Gymnosperms • Angiosperms • Ecology of plants • Evolution of plants • Plant Pathology



Prof. Sayyad Innus Gafur was born in 1st June 1967 at Takali (Kh), tal: Karjat Dist. Alurednagar (M.S). He is warming as Head Department of Botany science 1996 In Smt. S.K. Gandhi Art's, PH Gandhi Commerce, And Amolak Science College Kada, Tal: Ashbi Dist: Beed (M.S). He has 22 years Teaching experience in the subject of Botany He obtained his M. Phil degree from Allagappa University TamilNadu (T.N). He has contributed more than 15 Research paper in National and International conferences, he worked as program officer in National service scheme he had rich experience of conducting several extension activities in rural and slum area to enhance the capability and skills of the community in relation to their service areas through N.S.S



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Modern Practical Botany

Practical Botany aims to provide the students, a useful hand book to guide them in the proper study of the subject material. A systematic, structured and disciplined method of work is necessary in the laboratory to obtain maximum benefit. In order to help the students realize their goal practical manuals indeed play an important role. The book has been written in such a way to develop those skills as they learn about plants, what plants are, how they function, how they interact with each other and the environment, where they came from, and how we use them. As is the nature of all textbooks, it contains an abundance of interesting "facts" but the real emphasis of this practical book is how we know. This laboratory manual must be used in conjunction with textbooks of botany. The Introduction presents general instructions for practical work and for the keeping of practical notebooks and a list of apparatus and instruments required, as well as a summary of the characteristics of living organisms, the differences between plants and animals and the principles of plant classification. The book effectively guides the students to facilitate their work in laboratory. Useful for degree and post-graduate students of Botany. In order to help the students realize their goal practical manuals indeed play an important role. Utmost care is taken in the presentation of matter, style of writing and choice of illustrations so that the book is user friendly.

Contents

Plant Physiology • Laboratory Methods in Algae • Fungi and Its Classification • Methods of Studying Plant Diseases • Plant Bacteria and Viruses • Comparative Study of Pteridophytes • Gymnosperms plant • Plant anatomy • The Cell: Structure and Its Components • Mendel's Laws of Inheritance • Plant Breeding • Crop Improvement • Economic Botany



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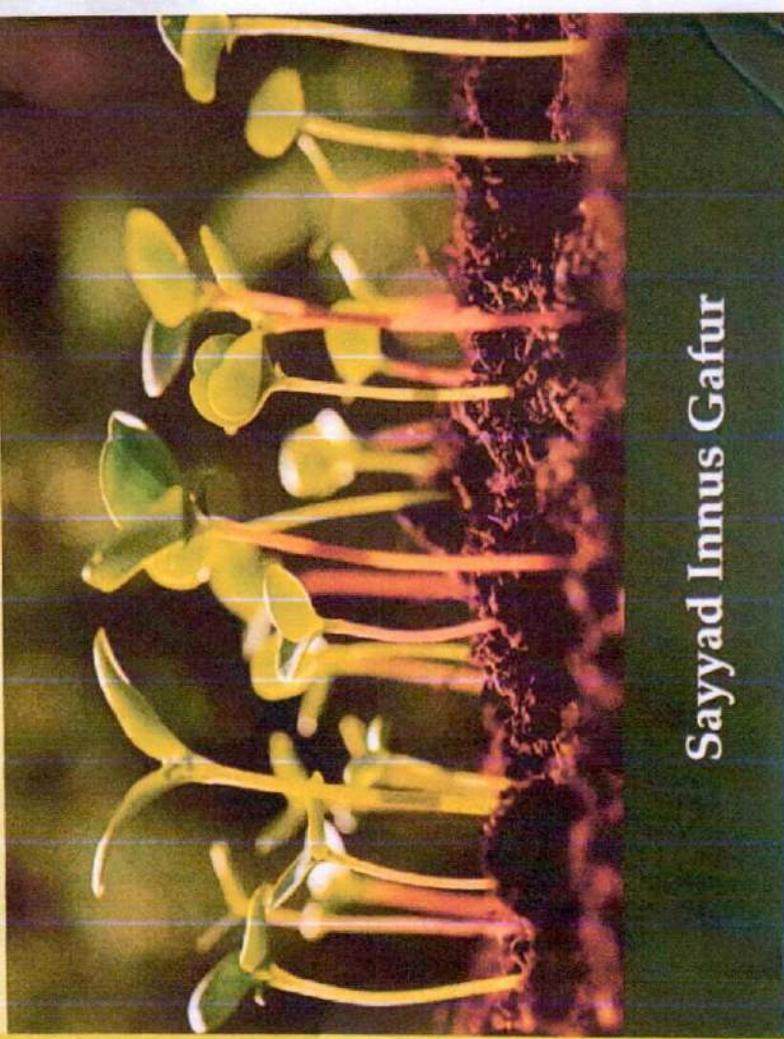
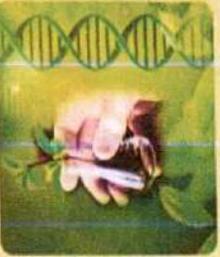


Modern Practical Botany

Sayyad Innus Gafur



Modern Practical Botany



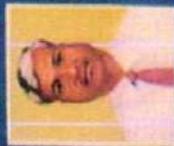
Sayyad Innus Gafur

Geography of Tourism

Tourism geography is the study of travel and tourism, as an industry, and as a social and cultural activity. Tourism geography covers a wide range of interests including environmental impact of tourism, the geographies of tourism and leisure economies, answering tourism industry and management concerns and the sociology of tourism and locations of tourism. Tourism industry in India is growing and it has vast potential for generating employment and earning large amount of foreign exchange besides giving a fillip to the country's overall economic and social development. The culture tourism scenario prevailing in India is dealt in detail. Similarly, the relationship between heritage tourism and rural tourism has been analyzed. The tourism industry generates substantial economic benefits to both host countries and tourists' home countries. Especially in developing countries, one of the primary motivations for a region to promote itself as a tourism destination is the expected economic improvement. As with other impacts, this massive economic development brings along both positive and negative consequences. Tourism is an intensely geographic phenomenon. If we view human geography as being concerned essentially with the patterns and consequences of the economic, social, cultural and political relationships between people, and between people and the spaces and places that comprise their environment, then the annual migration of millions of travellers worldwide within the activity that we label as 'tourism' is a process that human geographers should not ignore. This book tries to delve deep into various aspects of tourism development. This book intends to explore principles of tourism development. This will prove high informative and useful for academics and professionals in the field.

Contents

Introduction to Tourism Geography • Geographical Phenomenon of Tourism • The Nature-based Eco-tourism • Tourism Development in India • Development of International Tourism • Development of Tourism in Maharashtra • Development of Tourist Centres in India • Infrastructure of Tourism • Cultural and Heritage Tourism • Tourism Pilgrimages • Adventure in Tourism • Tourism in the Himalayas • Economic and Social Development in Tourism • Environmental Management of Tourism Development • Economic Impacts of Tourism • Marketing of Modern Tourism • Wildlife Tourism • Tourism Promotion • Tourism in Developing Countries



Dr. Udhav Eknath Chavan has been working as assistant professor of Geography, Head of department of geography (UG & PG) from 1999. He obtained his post graduate degree from University of Pune, M.Phil. from Tilak Maharashtra University Pune and Ph.D. in Agriculture Geography from Dr. Babasaheb Ambedkar Marathiwadi University Aurangabad. He started his professional career as an Assistant Professor in Geography in Shri. Amolak Jain Vidya Prasarak Mandal's Smt. S.K. Gaudhi Arts, P.H. Gandhi Commerce & Amolak Science College Kada, Tq. Ashti Dist. Beed. He has been actively engaged in teaching, learning, evaluation and

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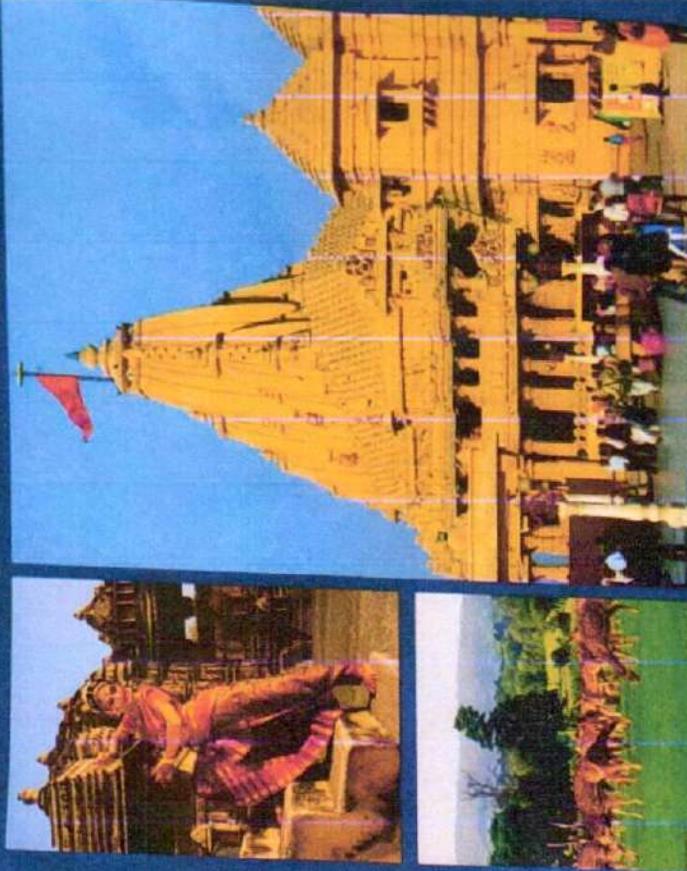
GEOGRAPHY OF TOURISM

Dr. Udhav Eknath Chavan



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GEOGRAPHY OF TOURISM



Dr. Udhav Eknath Chavan

Geography of Environment and Natural Calamities

The whole fabric of a geographical study is based on man-environment relationship. Environmental degradation is intimately associated with the intensifying human impact on his surroundings. Right from the beginning, geographers have not only discussed the various components of an ecosystem and their impact on man but also examined the environmental problems, both global and regional, as well as the question of sustainable development. The present book is an interdisciplinary analysis of the natural and anthropogenic components of the environment. The environment is our physical surroundings. This includes both human social and physical features. Environmental geography deals with the dynamics of earth's surface features. It is linked to hydrology, environmental geology, and other facets of both geography and geology. It is also concerned about human action in the environment. A natural disaster is the effect of a natural hazard - (e.g. flood, tornado, hurricane, volcanic eruption, earthquake, or landslides) that affects the environment, and leads to financial, environmental and/or human losses. Natural disasters are caused by hydro-meteorological, climatological, geophysical and biological phenomena which adversely impact on the natural and built environment of affected regions. Their effects in terms of victims and material damage exceed the capacity for self-recovery of local communities, making external assistance necessary. Natural disasters are changes which are so great they may cause damage to the shape of the land or to the lives of people and other living things. The book is an essential reading for the students of geography and environmental science. It will also be of value to a broader social science audience interested in the application of social knowledge to the understanding of environmental problems at the global and local scale.

Contents

Definition of Environmental Science • Environmental Ecology • Principle and Structure of Ecosystems • Different Types of Ecosystems • Problems of Ecosystem and Environmental Global Warning • Nature and Scope of Natural Calamities • Earthquake and Volcano • Drought and Floods • Biological Hazards • Global Warming and Green House Effects



Dr. Udhav Eknath Chavan has been working as assistant professor of Geography, Head of department of geography (UG & PG) from 1999. He obtained his post graduate degree from University of Pune, M.Phil. from Titik Maharashtra University Pune and Ph.D. in Agriculture Geography from Dr. Babasaheb Ambedkar Marathwada University Aurangabad. He started his professional career as an Assistant Professor in Geography in Shri. Amolaj Jain Vidya Prasarak Mandal's Smt. S.K. Gandhi Arts, P.H. Gandhi Commerce & Amolaj Science College Kadi, Tq. Ashli Dist. Beed. He has been actively engaged in teaching, learning, evaluation and research for the past twenty years. He has travelled abroad and participated in international conference, presented paper. He published his two dozens of paper in international ISSN Journals. He edited Amolaj Special Issue Book on Environment Conservation and Geography National Conference research paper ISSN Journal in 2012. He has been actively participated in National and international conference and seminars. He is Life member of Deccan Geographical Society of India Pune. He working as paper setter for UG & PG level in Aurangabad University. He has been awarded with Shodhkanan ISSN journal best paper award 2013, GIS expert National Award by Schnell Informatics Pvt. Ltd. Pune. He has been completed twenty one days GIS & Remote Sensing training programme sponsored by ISSRO At NBSS&LUP Udaipur.



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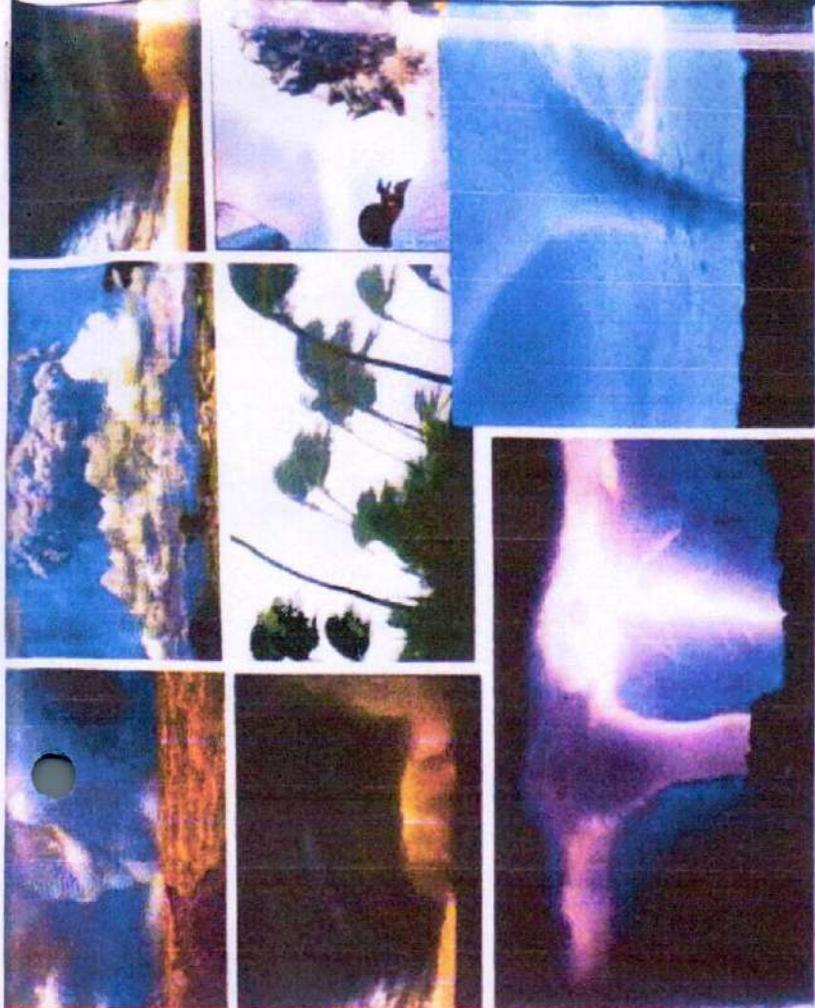
Geography of Environment and Natural Calamities

Dr. Udhav Eknath Chavan



Dr. Udhav Eknath Chavan

Geography of Environment and Natural Calamities



Fundamentals of GIS & Remote Sensing

Geographical Information System (GIS) techniques are being widely used since last two decades, mainly by earth scientists, geologists, geographers, regional planners, environmentalists in the fields of mineral explorations, archaeological excavations, geographical and topographical analysis, terrain studies, urban planning, regional planning, natural resources management, natural disaster management etc. A Geographical Information System combines computer cartography with a database management system. The major components common to a GIS. Remote sensing may be taken to mean the observation of, or gathering information about, a target by a device separated from it by some distance. Remote sensing instruments are of two primary types—active and passive. Active sensors, provide their own source of energy to illuminate the objects they observe. In satellite remote sensing of the earth, the sensors are looking through a layer of atmosphere separating the sensors from the Earth's surface being observed. The book provides a comprehensive coverage of techniques, applications and technologies of remote sensing and Geographical Information System (GIS). This book should be useful to remote sensing scientists and engineers, geographers, geologists, ecologists and environmental scientists, agricultural and soil scientists.

Contents

- Introduction to GIS • Data Models • Data Visualization • Introduction to GIS Software (Open Source) • Introduction to Remote Sensing • Characteristics of Electromagnetic Radiation (EMR)
- Fundamentals of Aerial Photography • Introduction to Digital Photogrammetry • Basics of Satellite Remote Sensing • Platforms and Orbits • Sensors and Scanning Systems • History of Indian Remote Sensing Program



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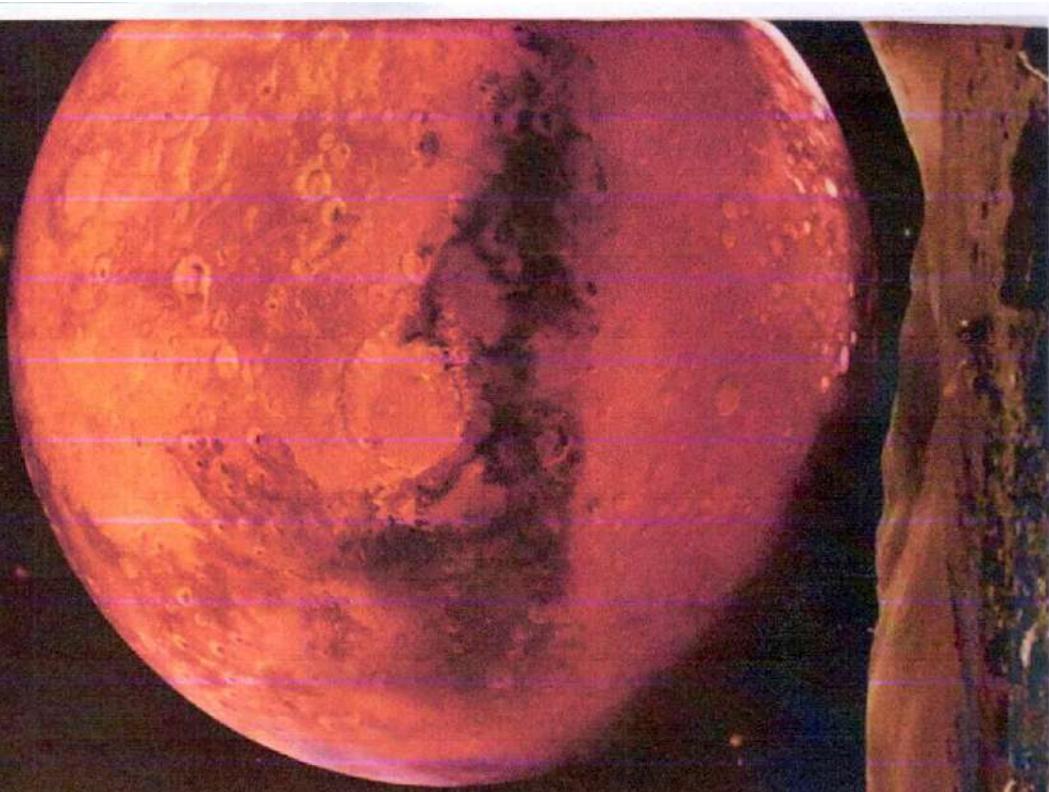
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Dr. Udhav Eknath Chavan



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GLOSSARY OF RESEARCH TERMS



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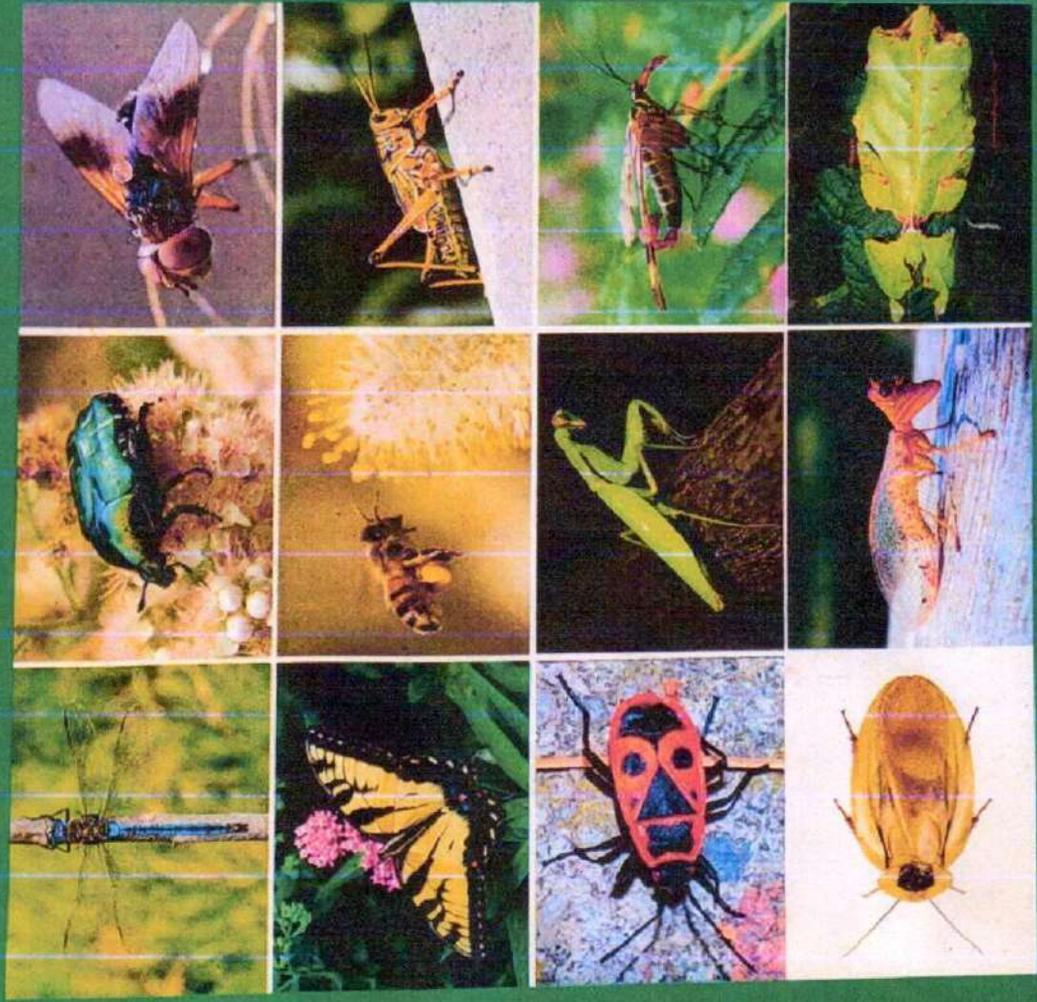
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Dr. Sudam S. Jadhav



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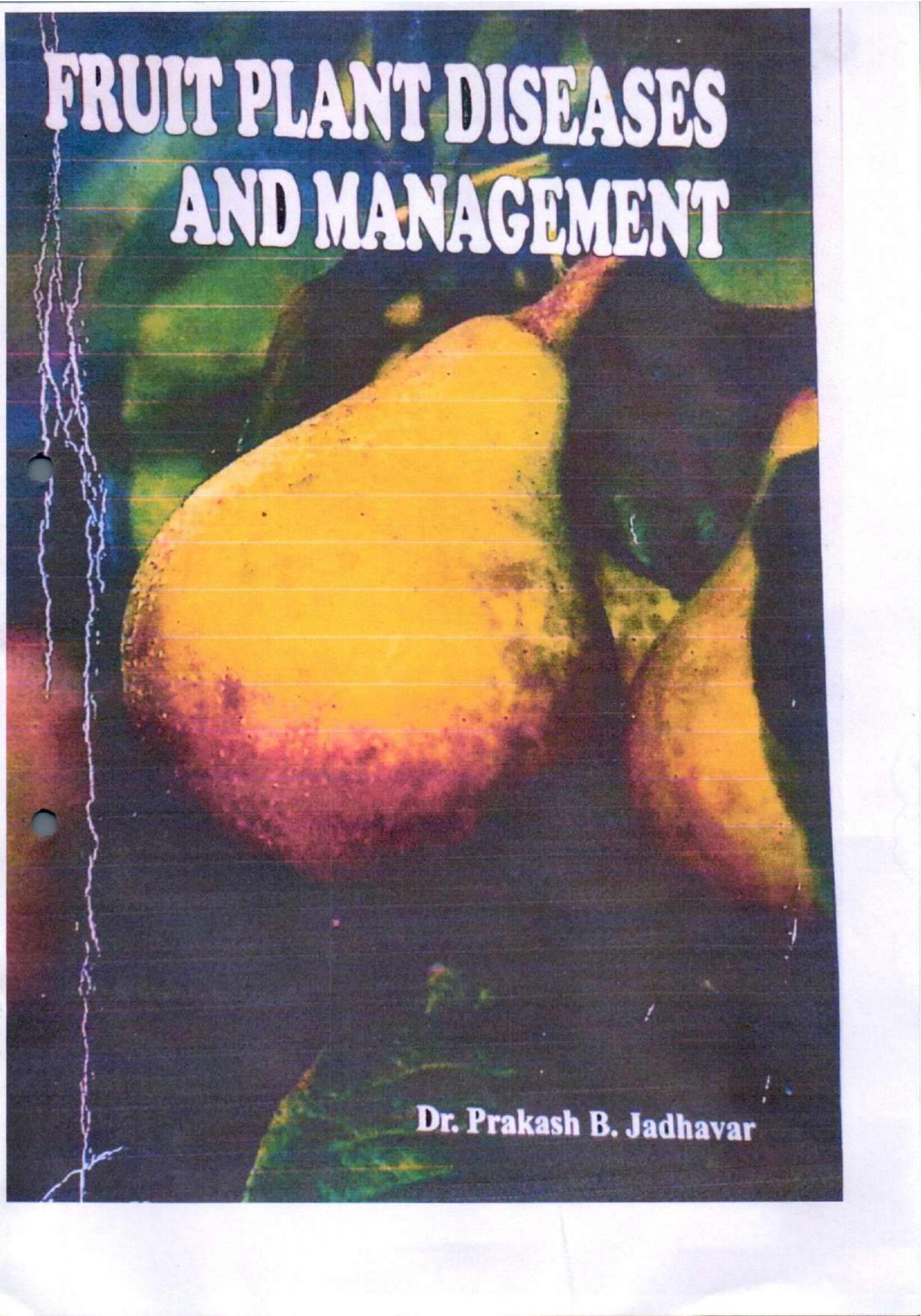
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FRUIT PLANT DISEASES AND MANAGEMENT



Dr. Prakash B. Jadhavar



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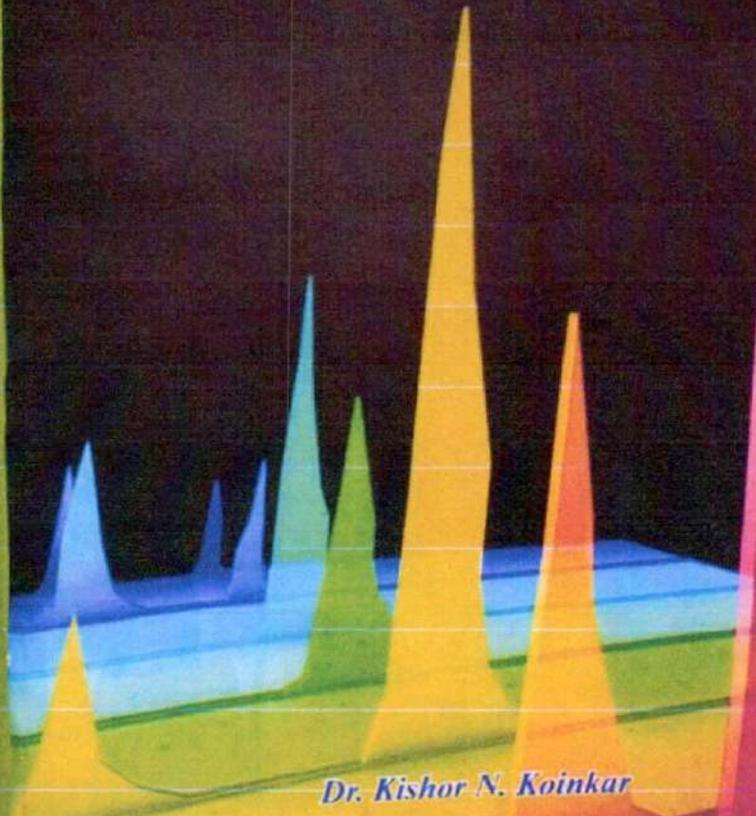
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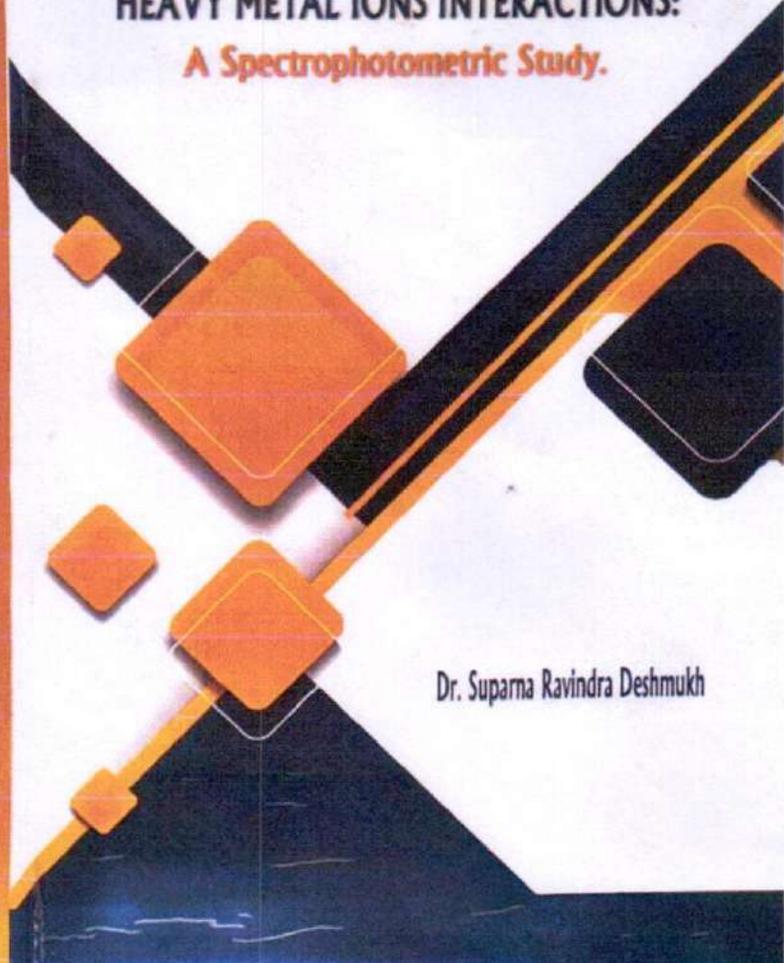
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DYE - SURFACTANT AND HEAVY METAL IONS INTERACTIONS: A Spectrophotometric Study.



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He is Research Guide for faculty of Commerce and Management Science. Under his guidance Nine Students completed Ph.D. and Seven Student completed M.Phil. He has authored Twelve Books and Fifty Six Research Articles in International and National Journals

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He has completed two Minor research Projects sponsored by the University Grant Commission, New Delhi. He has also visited seven countries for International Paper Presentation.

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Her research interests include, subjects in human resource accounting, valuing intangibles and management intervention into handicrafts

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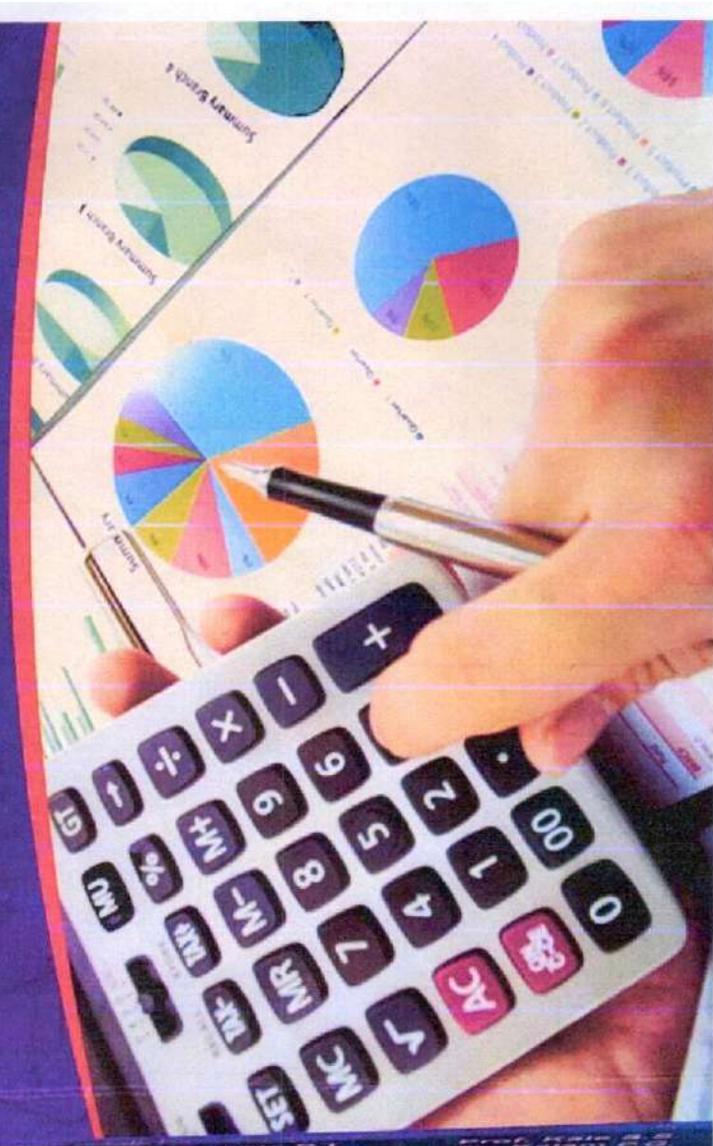
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Role of Biotechnology in Medicinal and Aromatic Plants

Medicine, in several developing countries, using local traditions and beliefs, is still the mainstay of health care. Medicinal plants, since times immemorial, have been used in virtually all cultures as a source of medicine. The widespread use of herbal remedies and health care preparations, as those described in ancient texts such as the Vedas and the Bible, and obtained from commonly used traditional herbs and medicinal plants, has been traced to the occurrence of natural products with medicinal properties. The aromatic plants possess odoriferous and volatile substances which occur as essential oils, gum exudate, balsam and oleoresin in one or more parts, viz. root, wood, bark, foliage, flower and fruit. The chemical nature of these aromatic substances may be due to a variety of complex the chemical compounds. The biotechnological tools are important to select, multiply and conserve the critical genotypes of medicinal plants. In-vitro regeneration holds tremendous potential for the production of high-quality plant-based medicine. Indian has one of the oldest, richest and most diverse cultural traditions associated with the use of medicinal plants. We also have a vast and inexhaustible resource of drugs of plant origin as nature has provided us with a rich storehouse of herbal remedies to cure all mankind's ailments. Some of them are widely cultivated and others are found in plenty. Medicinal plants have their values in various chemical compounds available in various parts such as leaves, stems, roots, seeds, bark, wood etc. Sensing the importance and antidisease properties of the medicinal and aromatic plants, articles of this book have been compiled to give a clear idea on the subject and also help the medical practitioners to keep abreast of the latest developments.

CONTENTS

Introduction • Micropropagation of medicinal and aromatic plants • Aromatic Plants • Micropropagation and conservation of medicinal plants • Biotechnological investigations in medicinal plants • Role of biotechnology in spices crop improvement • Tissue culture in spice crops • Ayurvedic Medicinal Plants • Role of Plant Biotechnology in Production of Secondary Metabolites • Biotechnological approaches on medicinally Important Species • Cultivation Practices of Medicinal Plants • Role of micropropagation in Conservation of Medicinal Plants • Production of herbal drugs in vitro • Genetic Engineering, Breeding of Aromatic Plants



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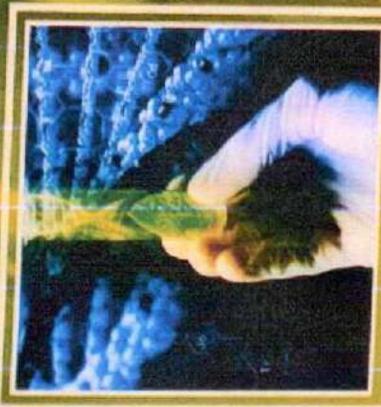
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Role of Biotechnology in Medicinal and Aromatic Plants



Role of Biotechnology in Medicinal and Aromatic Plants

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An Introduction to Fungi and Plant Pathology

Fungi are living organisms that are distantly related to plants, and more closely related to animals, but rather different from either of those groups. Fungi is a group of simple plants that have no chlorophyll. There are some species of fungi that are single celled organisms, and there are other kinds of fungi that are multi-cellular organisms. Fungi are made up of filaments called hyphae that are stacked together from end to end. Some kinds of fungi live on land and other types of fungi live in water environments. Plant pathology (also phytopathology) is the scientific study of diseases in plants caused by pathogens (infectious organisms) and environmental conditions (physiological factors). Organisms that cause infectious disease include Fungi, oomycetes, bacteria, viruses, viroids, virus-like organisms, phytoplasmas, protozoa, nematodes and parasitic plants. Not included are ectoparasites like insects, mites, vertebrate, or other Pests that affect plant health by consumption of plant tissues. Plant pathology also involves the study of pathogen identification, disease etiology, disease cycles, economic impact, plant diseases epidemiology, plant disease resistance, how plant diseases affect humans and animals, pathosystem genetics, and management of plant diseases. Initially the book covers the description about the history of microbiology, taxonomy, morphology and reproduction of microorganisms, wherein, a brief account of eukaryotic microorganism is also explained with reference to its characteristics features.

CONTENTS

Contents • Introduction to Fungi • Basic of Fungus • Biology of Fungi • Physiology of Fungi Pathogens • Plant Disease of Fungi • Plant Pathogenic Fungi • Structure of Fungi • Parasitology • Mycology • Plant Pathology • Nature and Importance of Plant Diseases • Plant-Parasitic Nematodes • Bacterial Plant Pathogens



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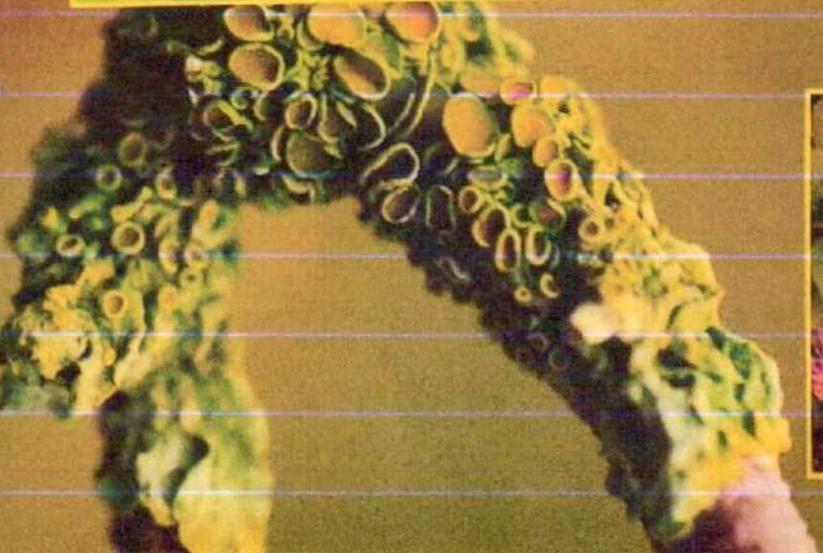
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An Introduction to Fungi and Plant Pathology

Sayyad Innus Gafur



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Fungi and Plant Pathology

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History of Modern Maharashtra (1818 AD to 1960 AD)

Maharashtra is a state in the western region of India and is India's second-most populous state and third-largest state by area. Although the present-day state in India was only formed in 1960, the region that comprises the state has a long history dating back to the 4th century BCE. The present book aims at focusing the socio-economic conditions of Maharashtra, a state of Indian union, which has evolved its distinct culture i.e. the Marathi culture. The evolution of this Marathi or Maharashtrai culture is a long drawn process, which seems to have begun during the time of the Satavahans. The East India company controlled Mumbai since the 17th century as one of their main trading post. The company slowly expanded areas under its rule during the 18th century. Their conquest of Maharashtra was completed in 1818 with the defeat of Peshwa Bajirao II in the Third Anglo-Maratha War. People from Maharashtra played an important part in the social and religious reform movements as well as the nationalist movement of the late 19th and early 20th centuries. Notable civil society bodies founded by Marathi leaders during 19th century include the Poona Sarvajanik Sabha, the Prarthana samaj, the Aya Mahila Samaj and the Satya Shodhak Samaj. The non-Brahmin Hindu castes of Maharashtra started organizing at the beginning of the 20th century with the blessing of Chhatrapati Shahu of Kolhapur. The campaign took off in the early 1920s under the leadership of Keshavrao Jedhe and Bhuburao Javalkar. Both belonged to the Non-Brahmin party. Capturing the Ganpati and Shivaji festivals from Brahmin domination were their early goals. Maharashtra was a part and parcel of erstwhile Bombay state along with Gujarat. It was popularly known as Bombay Presidency, which was created by the British when they became undisputed power of the Western part of India. Maharashtra came into existence on 1st May 1960, as a separate state on the linguistic basis. The book is of tremendous value to students, teachers, tourists, historians, guides and general readers.

Content
History of Maharashtra • Early Socio-Religious and Economic Conditions of Maharashtra • Early Phase of British Rule • Administration, Education, Press, Activities of Christian Missionaries • Early Socio-Religious Reformers • Early Resistance of Colonial Rule • National Movement in Maharashtra • National Movement (1905-1920) in Maharashtra • National Movement (1920-1947) • Social Movements • Hyderabad Freedom Struggle (Marathwada Region) • Making of Maharashtra



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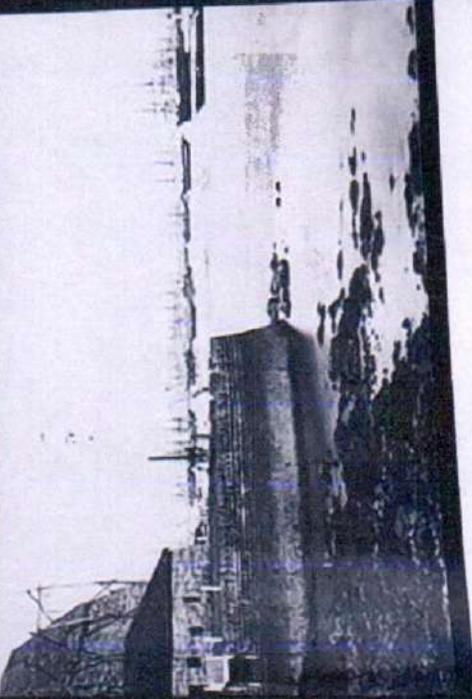
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(1818 AD to 1960 AD)



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HISTORY OF INDIAN CULTURE

This book delves deeply into the major cultural streams that made an impact on India, during the ancient and modern times. The cultural spheres created by Harappans, Aryans, Jainism, Buddhism, Christianity, Islam, invaders, and the West have been discussed with amazing finesse. The resultant culture of the Indian subcontinent was an amalgamation of these vital cultural components. The culture of India refers collectively to the thousands of distinct and unique cultures of all religious and communities present in India. India's languages, religions, dance, music, architecture, food, and customs differs from place to place within the country, often labeled as an amalgamation of several cultures, spans across the Indian subcontinent and has been influenced by a history that is several millennia old. Many elements of India's diverse cultures, such as Indian religions, philosophy, cuisine, languages, martial arts, dance, music, and movies have a profound impact across the Indosphere, Greater India and world. India's history and culture is dynamic, spanning back to the beginning of human civilization. It begins with a mysterious culture along the Indus River and in farming communities in the southern lands of India. The history of India is punctuated by constant integration of migrating people with the diverse cultures that surrounded India. Available evidence suggests that the use of iron, copper and other metals was widely prevalent in the Indian sub-continent at a fairly early period, which is indicative of the progress that this part of the world had made. By the end of the fourth millennium BC, India had emerged as a region of highly developed civilization. This book is an endeavor to present our sense of proportion and sacrifice the wisdom of our ancestors at the altar of antiquity. We have a right to a bright future, based on the character, intellect and strength of our past. That is what this book points out.

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HISTORY OF INDIAN CULTURE

Dr. Radhakrishna L. Joshi
Prof. Dr. Ashok K. Kanade

Dr. Radhakrishna L. Joshi
Prof. Dr. Ashok K. Kanade



PUBLIC LIBRARY LEGISLATION IN THE NEW MILLENNIUM

Legislation is the only way for a systematic and planned development of library service. The work of library legislation in India during the last 50 years has been slow. Even after five decades of independence, only thirteen states enacted library legislation. Act means preparing the format of law or legislation. In the context of libraries, the Library Act means to give legal provision for establishing a library system, its maintenance, services, functions, right and management under any state or a national government. Library legislation is capable of regulating various organs of public library services. It is an instrument for the development of public libraries in a planned manner to ensure establishment, development and maintenance of libraries in a uniform pattern. It can help in promoting a sense of self consciousness among the people who would feel it obligatory on their part to use services offered by the library. This is possible with proper amendments in existing library legislation in states and proper vision of the central government and state governments in India.

Contents

- Public libraries, legislation and information technology • Components of public library legislation • Model state library and information services policy • Model public library and information services Act • Public Library: Origin and Growth
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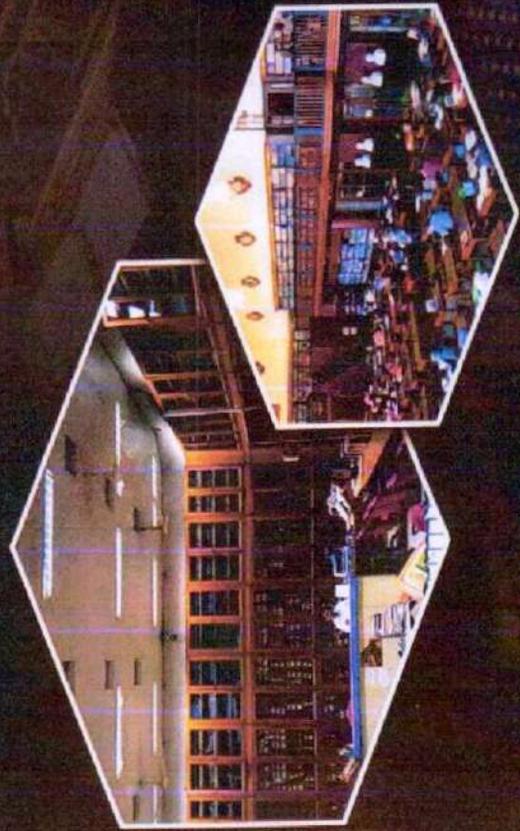


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Dr. Rajkumar H. Thorwe

Role of Public Library in the Socio Economic Development

Finance plays a crucial role in all developmental activities of an organisation. Public libraries being spending organisations do not earn revenue for its services rendered. Therefore, public libraries need constant financial support both from the government and non-government agencies to provide its services smoothly and effectively. Public libraries are the new village green. They are public spaces where everyone is welcome and can participate. They make a vital contribution towards the social capital, educational and recreational development of local communities and are an important foundation of democracy. Moreover, public libraries are facing fundamental changes internationally caused by fundamental changes of society, especially the IT development and digitizing, the growth of multiculturalism and fragmenting of local communities and, not least, the continuous economic pressure on the public sector. The financial crisis has a heavy impact on all these issues and is increasing the stress on the public economy dramatically. The contribution of public libraries for social and economic developments of the society are much appreciated. Their roles are to be recognised by the society as they are known as temple of learning and part and parcel of the social system.

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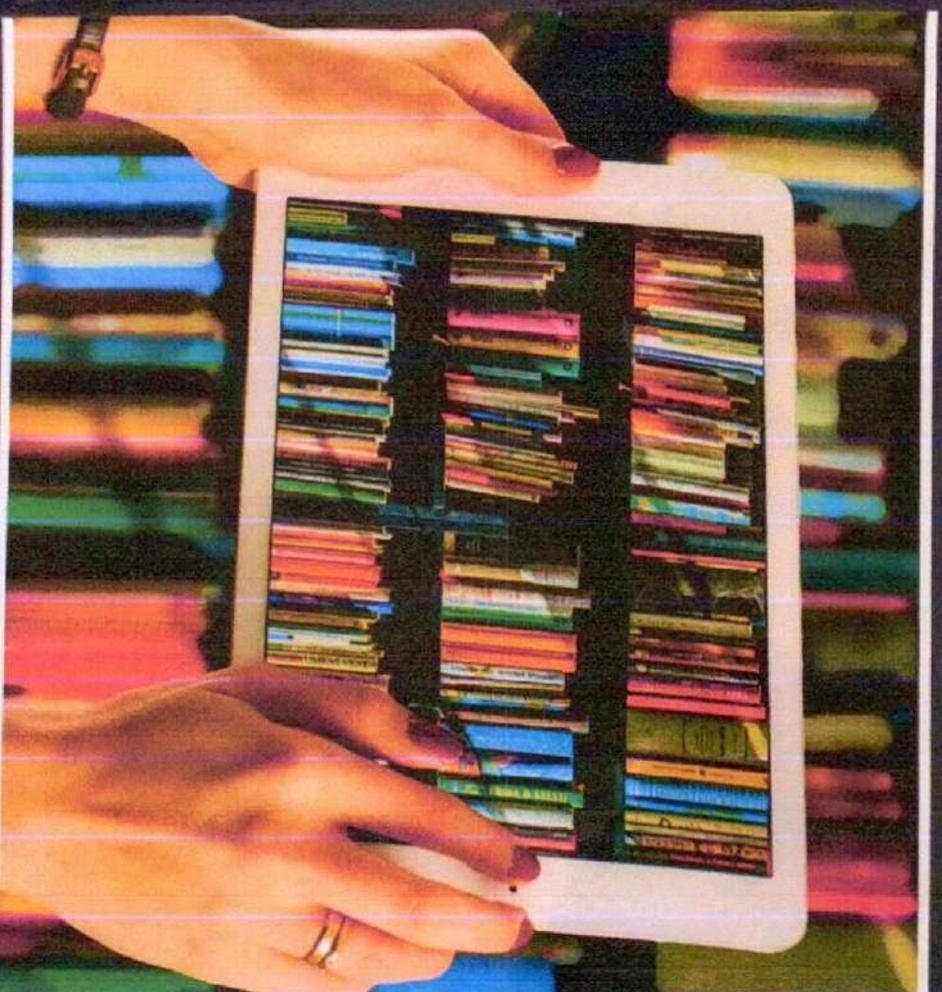
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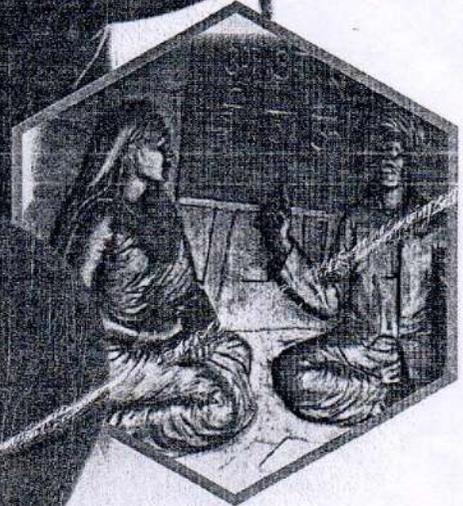
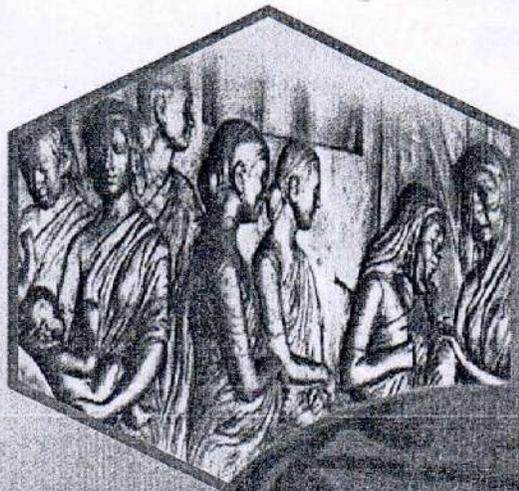
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वेदिका टाईपसेटर्स, औरंगाबाद

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ओंकार प्रिंटर्स,

औरंगाबाद.

मुखपृष्ठ

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नोट : या पुस्तकातील सर्व शोधनिबंध लेखकाची मौखिक परवानगी ग्राह्य धरूनच एकत्रित करण्यात आलेले असून, तनी शोधनिबंध जसे पाठविले होते तसेच मुद्रित शोधन न करता छापावे लागल्यामुळे त्यात मुद्रणदोष असू शकतात. शोधनिबंधातील मते ही प्रत्येकाची वैयक्तिक मते असून, त्या मतांशी संपादक, सहसंपादक किंवा प्रकाशक सहमत असतीलच असे नाही.

प्रा. भोसले एस. ई.

गांधी महाविद्यालय, कडा

ता. आष्टी जि. बीड

प्रस्तावना :

समाजजीवनाचा जेव्हा तोल ढळतो, तत्वांना ग्लानी येते, नीतीचा विपर्यास होतो आणि माणसाचा पशू होतो. तेव्हा समाजाला सावरणारा कोणीतरी महात्मा प्रकट होतो. हा समाजपुरुष वेदनेच्या वाटेने चालत राहतो. त्यांच्या वाट्याला विषाचा प्याला, मानखंडना आणि टाकीचे किंवा शस्त्राचे घाव येतात हे सहन करण्याची शक्ती त्यांच्या अंगी असते. घाव घेत घेत सत्याच्या दिशेने धाव घेणे हा या व्यक्तींचा मनोधर्म असतो. त्यांच्या पावलांनी तयार होणारी वाट लोकजीवनात नव्या जाणिवांची पहाट घेऊन येते. सामाजिक गुलामगिरीचा अंधार सर्वत्र दाटला असतांना त्यांच्या पावलांनी सार्वजनिक सत्यधर्माची पहाट देशाच्या दारी आली त्या परमपावन पुरुषाचे नाव महात्मा ज्योतीबा फुले असे होते.

डॉ. आंबेडकर यांनी ज्योतिबांना आपले गुरु मानले. गांधीजींनी खरा महात्मा म्हणून त्यांचा गौरव केला. स्वातंत्र्यवीर सावरकर यांनी सामाजिक क्रांतिकारक म्हणून त्यांचे जयगान केले. महाराष्ट्रातील अठरापगड प्रजेने समारंभपूर्वक ज्योतीबांचे महात्म्य महाराष्ट्राच्या मुंबईत उद्घोषित केले. महर्षि विठ्ठल रामजी शिंदे यांच्या मते घसत्याचा पालनवाला | धन्य ज्योतिबा इ गालाड भारतातील स्त्रिया, दलित, शेतकरी आणि इतर उपेक्षित घटकांसाठी ज्योतिबा आयुष्यभर झगडत राहिले.

फुलेंच्या काळातील सामाजिक स्थिती :

महात्मा ज्योतिबा फुलेंचा जन्म १८२७ मध्ये झाला. फुलेंच्या काळातील सामाजिक स्थितीचा अभ्यास करता असे लक्षात येते की त्या काळात भारतात राजशाही संपुष्टात येऊन नुकतिस इंग्रजांची सत्ता स्थापन केली होती. भारत पारतंत्र्यात गेला होता. काही भागात लहान मोठे संस्थानिक इंग्रजांच्या गुलामीत राज्य करत होते. महाराष्ट्रात नुकतिस पेशवाई संपुष्टात आली असली तरी सामाजिक दृष्ट्या समाजात पेशवाईने घट्ट पाय रोवले होते. हिंदू समाज विकलांग झाला होता. जातीयता मोठ्या प्रमाणात माजली होती. त्यातूनच अस्पृश्यतेची अमानुष प्रथा तीव्रतेने पाळली जात होती. अस्पृश्यांना जनावरापेक्षाही वाईट वागणुक मिळत होती. अठरापगड जातींना शुद्र मानले जात होते. गरीबांचे हाल होत होते. शेतकऱ्याची चोहोबाजूंनी लुट सुरू होती. शेतकरीही हलाखीचे जीवन जगत होता. आणखी एक घटक होरपळत होता तो म्हणजे स्त्री. त्याकाळी स्त्रियांवर अनेक बंधने लादली गेली होती. अस्पृश्य आणि स्त्रियांचे हाल वाईट होते. स्त्रियांना पुरुषांच्या पायाजवळची दासी म्हणून जगावे लागत होते. अशा भयाण सामाजिक परिस्थितीमध्ये ज्योतिबा फुलेंचा जन्म झाला. महात्मा फुलेंनाही समाजातील उच्च जातीच्या लोकांकडून त्रास झाला. परंतु या भयाण परिस्थितीतून समाजातील शुद्र, स्त्रिया, शेतकरी गरीब लोकांना बाहेर काढण्यासाठी महात्मा ज्योतिबा फुले आयुष्यभर झगडत राहिले. फुलेंच्या समाजसुधारणेच्या कामाला प्रचंड विरोधही झाला. परंतु शेकडो संकटावर मात करून या महात्म्याने समाजातील दुर्बल घटकांच्या उधाराचे कार्य केले.

फुलेंच्या काळातील स्त्रियांची स्थिती :

महात्मा फुलेंच्या काळात महाराष्ट्रातील स्त्रियांची समाजातील स्थिती अत्यंत वाईट होती. स्त्री ही उपभोगाची वस्तू आहे. स्त्रिने केवळ चूल आणि मूलच पहावे एवढाच अधिकार स्त्रीला होता. स्त्रियांना शिक्षणाचा अधिकार नव्हता. समाजात बालविवाह,

कुमारी - जरठ विवाह, सतीप्रथा किंवा वैधव्यात जीवन, केशवपन करणे, विधवांना पांढरे वस्त्र इत्यादी अनेक वाईट प्रथा स्त्रीयांवर लादल्या होत्या. विधवांना पुर्नविवाहाचा अधिकार नव्हता. बहुपत्नित्वाची प्रथा प्रचलित होती. मुरळी प्रथा, देवदासी इ. वाईट प्रथा प्रचलित होत्या. अशा अनेक बंधनात स्त्रीची आवस्था अतिशय दयनीय झाली होती. म्हणूनच महात्मा फुले यांनी स्त्री उध्दाराचे कार्य हाती घेतले.

महात्मा फुलेंचे स्त्रीयांविषयक कार्य :

समाजात स्त्री आणि शुद्रांवर होणाऱ्या अत्याचारातून त्यांची मुक्तता करण्यासाठी ज्योतिबा फुल्यांनी जन्मभर कष्ट केले. स्त्रियांना सामाजिक गुलामगिरीतून मुक्त करण्यासाठी ज्योतिबांनी दिलेले योगदान पुढीलप्रमाणे आहे.

१) स्त्री शिक्षणासाठी समाजात जागृती :

स्त्रिया आणि शुद्रांना शिक्षण घेण्याचा अधिकार नसल्याने त्यांची अधोगती झाली. त्यामुळे त्यांना शिक्षण देणे महात्मा फुलेंना आवश्यक वाटत होते. हिंदू धर्मशास्त्राच्या मते, स्त्रिया आणि शुद्रांना शिक्षण घेण्याचा अधिकार नाही स्त्रीला शिक्षण दिल्यास ती कुमार्गास लागेल असे मानले जाई. शिक्षण घेतल्याने मुली विधवा होतात आणि शिक्षणही भ्रष्ट होते असे मानले जात होते. त्यामुळे सूक्ष्म शिक्षणावर बंदी लादली होती. स्त्रियांच्या अशा वाईट स्थितीला पाहून महात्मा फुलेंनी स्त्रियांच्या उध्दाराचे आणि त्यांचे दुःख निवारणाचे कार्य हाती घेतले. विद्येच्या प्रसाराशिवाय स्त्रियांचा उध्दार होणार नाही असा विचार करून त्यांनी समाज जागृतीला सुरुवात केली.

२) मुलींसाठी शाळा :

महात्मा फुले यांनी स्त्री शिक्षणाचे महत्त्व ओळखून स्त्री शिक्षणाला सुरुवात केली. भारतात महात्मा फुलेंच्या अगोदर इ.स. १८९९ मध्ये अमेरिकन मिशनने कलकत्ता येथे मुलींसाठी पहिली शाळा सुरु केली होती. तसेच १८४० मध्ये पुण्यात देखील ख्रिस्ती मिशनने पुण्यात मुलींसाठी शाळा सुरु होती. स्कॉटिश मिशनने ही एक शाळा सुरु केली होती परंतु ती बंद पडली होती. भारतातील उच्चवर्णीयांकडे स्त्री शिक्षणाला होणारा विरोध आणि लोकांची पारंपारिक मानसिकता याच्या विरोधात मुलींची शाळा काढणे सापे काम नव्हते. यांची जाणीव फुल्यांनाही होती. तरी देखील फुलेंनी सामाजिक रुढी परंपरेविरुद्ध बंड उभारून १८४८ मध्ये पुण्यात मुलींची पहिली शाळा सुरु केली. उच्च जातीतील स्त्रिया तसेच शुद्रातिशुद्र जातीतील स्त्रियांना शिक्षण देण्यासाठी महात्मा फुलेंनी सुरु केलेली शाळा ही देशातील पहिलीच शाळा ठरली. त्यामुळे महात्मा फुले स्त्री शिक्षणाचे जनक ठरतात. पुढील काळात ज्योतीरावांनी आर्थिक आडचर्णीचा सामाजिक आडचर्णीचा सामना करत पुणे आणि परिसरातील मुलींसाठी अनेक शाळा काढल्या. सावित्रीबाईना शिक्षण देऊन त्यांना शिक्षकेचे काम दिले. समाजातील दानशूर व्यक्तींनी ज्योतीबांच्या कार्यास आर्थिक हातभार ही लावला. काही लोकांनी प्रचंड प्रमाणात आउथळेही आणले. यावर परिस्थितीवर मात करून स्त्री शिक्षणाची मुहुर्तमेढ महात्मा फुलेंनी रोवली.

३) बाल हत्या प्रतिबंधक गृहाची स्थापना :

तत्कालीन परिस्थितीमध्ये माहाराष्ट्रात विशेषतः पुण्यात रुढी- परंपरांचा प्रभाव तिब्र स्वरूपाचा होता. त्यामुळे महात्मा फुलेंनी विधवा पुर्नविवाहाचा पुरस्कार केली. असला तरी समाजात त्याला प्रतिसाद मिळत नव्हता त्या काळी स्त्रियांना पतीच्या निधनानंतर एकतर सती जावे लागत होते किंवा विधवेचे खडतर जीवन जगावे लागत होते. समाजात विधवांना अनेक समस्यांना सामोरे जावे लागत होते. बालविवाहाच्या प्रथेमुळे बालविधवांचे प्रमाण प्रचंड होते. अशा विधवा स्त्रीयां कुटूंबातील पुरुष किंवा समाजातील पुरुषांच्या लैंगिक अत्याचाराला बळी पडत असत. त्यातून अनेक मुली गरोदर ही राहत. अशावेळी समाजाच्या निंदेला धाबळून अनेक विधवा अत्महत्या करत तर अनेक विधवा गर्भपात करत तर काही विधवा मुल जन्मताच त्याची हत्या करत असत अशा दुर्दैवी विधवांना समाजाच्या छळातून मुक्त करण्यासाठी महात्मा फुलेंनी इ. स. १८३३ मध्ये पुण्यात बालहत्या प्रतिबंधक गृहाची स्थापना केली. या बालहत्या प्रतिबंधक गृहाची स्थापना केली. या बालहत्या प्रतिबंधक गृहात येऊन अनेक गरोदर

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डॉ. अनिल गर्जे

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- मुखपृष्ठ :
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- मुद्रण :
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आमची इतर दर्जेदार प्रकाशने

● स्पर्धा परीक्षा

आधुनिक महाराष्ट्राचा इतिहास

- डॉ. एस. एस. गाठाळ

महाराष्ट्रातील समाजसुधारक

- डॉ. एस. एस. गाठाळ

आधुनिक भारताचा इतिहास

महाराष्ट्राच्या विशेष संदर्भात

- डॉ. एस. एस. गाठाळ

भारतीय राष्ट्रीय चळवळीचा इतिहास

- डॉ. एस. एस. गाठाळ

लोकप्रशासनाचे सिद्धांत व कार्यपद्धती

- डॉ. शांताराम भोगले

पंचायतराज आणि नागरी प्रशासन

- प्रा. अर्जुनराव दर्शनकार

आधुनिक भारताचा इतिहास

- डॉ. सतीश ठोंबरे

भारतीय राज्यपद्धती

- डॉ. सतीश ठोंबरे

ग्राम प्रशासन

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सार्वजनिक ग्रंथालये आव्हाने व

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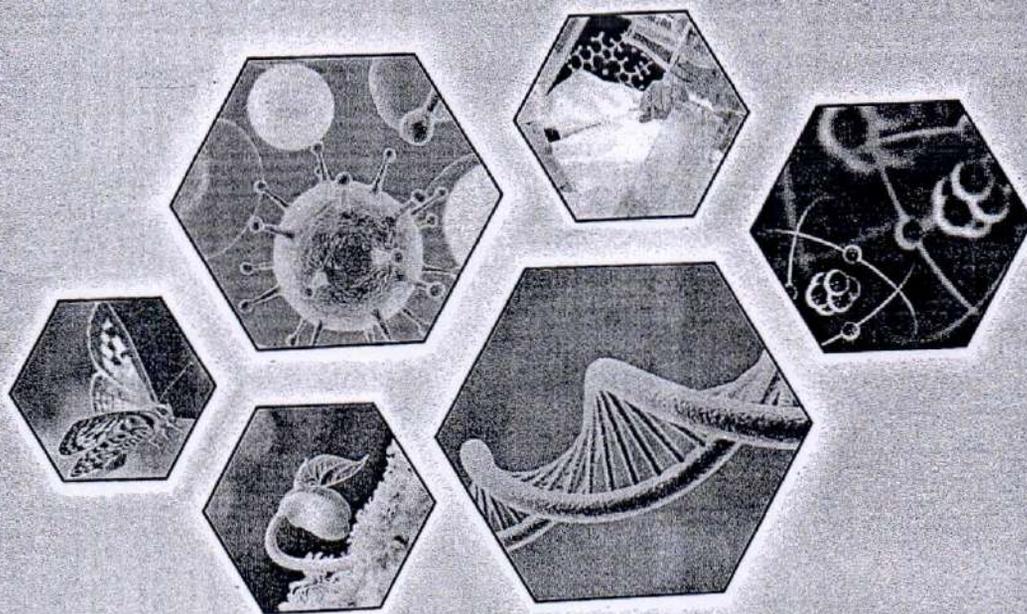
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Recent Trends in Life Sciences for Sustainable Development

23rd December 2017

● Dr. Navnath G. Kashid ●



EXCEL PUBLISHERS

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TO STUDY THE EFFECT OF PHOSPHORUS SOURCES ON CELLULOSE ENZYME BY *ALTERNARIA ALTERNATA* ON BRINJAL

Anarse P.S. & Sayyad I.G.

Department of Botany, Gandhi College Kada Tq.Ashti Dist. Beed.

Abstract:-

It is reported that the action of hydrolytic enzyme are extremely important in pathogenesis because they provide the pathogens chemical means of entrance in the host and a process whereby nutrients can be digested. These enzymes are secreted by the infecting pathogens are activated in the host tissues during infection and this determines the ability of pathogen to cause disease ports are available that several species of *Alternaria alternata* produce cellulolytic enzymes which degrade plant cell wall. *Alternaria alternata* were capable to producing pectinase and cellulose type of enzymes which results in post harvest biodeterioration pectolytic, cellulolytic and proteolytic enzymes secreted by pathogen have been reported to be involved in pathogenesis.

Introduction :-

Brinjal (*solanum melongena*. L.) is a popular and widely cultivated vegetable crop grown almost worldwide. India is considered to be the centre of origin of cultivated brinjal from where of it spread to other parts of world. It is regarded as a cash crop in the tribal dominant . Through it is suffer by different viral and fungal diseases , then also we are use this vegetable for best diet. It contains different vitamin sources and also contains many cellulose enzymes such as phosphorus and many others. Cellulose activity has been reported is bean hypocotyls tissue infected by *Alternaria alternata*. The maximum production of CMcase was achieved in the culture containing lactose or wheat bran as phosphorous source reported by Moharram et al., (2004).

Komarajah and Reddy (1984) reported the production of celluloses by *C.cassicola*, the seed borne fungi of methi . The fungus penetrates the host cell wall and by destroying the native cellulose (kanotora etal, 1988)

Material and method:-

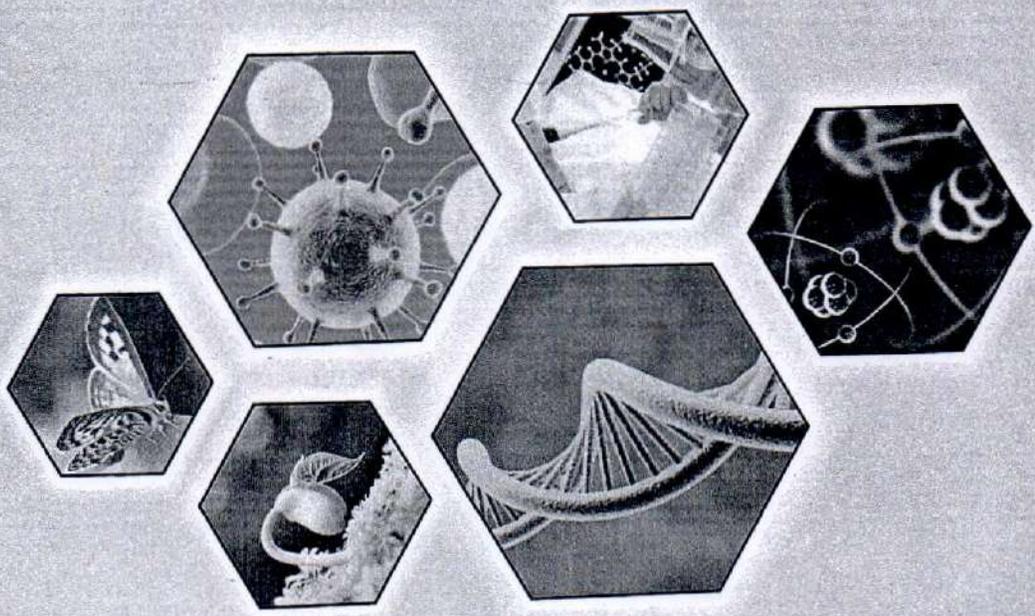
For the study of phosphorus sources of cellulose by *Alternaria alternata* of brinjal the experiment were conducted in the laboratory and we have taken six phosphorous source on cellular enzyme for our work. They are such as sodium hydrogen phosphate, Disodium hydrogen phosphate , potassium hydrogen phosphate, Ammonium phosphate, Ammonium bi phosphate and $\text{KH}_2(\text{PO}_4)_2$ (control) Nema, 1992) reported that *Alternaria alternata* were capable of producing phosphorus and cellulose type of enzymes. Hydrolysis of phosphorus ultimately yields glucose which is an important energy source for pathogenic microorganisms. (Wilkie, (1975). The optimum effect of phosphorous Cellulose produced by *Chaetomium globosum*. (El- Said 2001) . Enzyme was also achieved in culture medium supplemented with starch, pectin and cellulose as phosphorous sources observed by Amir Ijaz etal, (2011)

Result and Discussion :

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Result and Discussion :

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