

3.3.2 Number of Book or Book chapters published per teacher in the Journals as notified on the UGC CARE list during the last five years:

S. No.	Year	No. of Book or book chapters	Page No.
1	Jan-Dec 2024	03	1 to 09
2	Jan-Dec 2023	05	10 to 39
3	Jan-Dec 2022	05	40 to 52
4	Jan-Dec 2021	07	53 to 82
5	Jan-Dec 2020	03	83 to 90

2 BOOK
(CHAPTER)

Industrial Applications of Soil Microbes

(Volume 3)

Edited by

Ashutosh Gupta

*Department of Agriculture Science
AKS University, Satna (MP)-485001
India*

Shampi Jain

*Department of Agriculture Science
AKS University, Satna (MP)-485001
India*

&

Neeraj Verma

*Department of Agriculture Science
AKS University, Satna – 485001 (MP)
India*

Industrial Applications of Soil Microbes (Volume 3)

Editors: Ashutosh Gupta, Shampi Jain, and Neeraj Verma

ISSN (Online): 2811-0773

ISSN (Print): 2811-0765

ISBN (Online): 978-981-5079-75-3

ISBN (Print): 978-981-5079-76-0

ISBN (Paperback): 978-981-5079-77-7

© 2024, Bentham Books imprint.

Published by Bentham Science Publishers Pte. Ltd. Singapore. All Rights Reserved.

First published in 2024.

Stress Tolerance and Resistance	154
Phytoremediation	155
Soil Structure and Fertility	155
Soil Health and Soil Quality	155
COMMERCIAL APPLICATIONS OF MYCORRHIZA	155
CONCLUDING REMARKS	157
REFERENCES	157
CHAPTER 9: SOIL INHABITANT BACTERIA: JOURNEY FROM RHIZOSPHERE TO ECOLOGICAL APPROACH	161
<i>Harshada Zodge, Pallavi Koyande, Darshana Salaskar and Sayaji Mehetre</i>	
INTRODUCTION	161
DIFFERENT COMPONENTS OF RHIZOSPHERE	162
IMPORTANCE OF RHIZOSPHERE	163
RHIZOSPHERE ENGINEERING	164
Role of Trichoderma in Engineering Rhizosphere	165
Holobiont Approach	165
Rhizophagy	166
CONCLUDING REMARKS	167
REFERENCES	168
CHAPTER 10 CYANOBACTERIUM: USES AS A BIOCONTROL AGENT, BIOFERTILIZER, AND PLANT GROWTH PROMOTER IN AGRICULTURE AND ENVIRONMENTAL SUSTAINABILITY	171
<i>Balaji Vikram and Purnima Singh Sikarwar</i>	
INTRODUCTION	171
CYANOBACTERIA IN SUSTAINABLE MANAGEMENT	173
CYANOBACTERIA IN EXTREME ENVIRONMENTS	175
CYANOBACTERIA AS BIOFERTILIZERS	175
CYANOBACTERIA AS BIOCONTROL AGENTS	176
CYANOBACTERIA IN THE RECLAMATION OF SALT AFFECTED SOILS	177
CYANOBACTERIA AS PLANT GROWTH PROMOTERS	178
CYANOBACTERIA IN CO₂ SEQUESTRATION AND CLIMATE CHANGE MITIGATION	178
CYANOBACTERIA IN THE REDUCTION OF METHANE EMISSIONS	180
CYANOBACTERIA AS FOOD SUPPLEMENTS	180
CONCLUDING REMARKS	181
REFERENCES	181
CHAPTER 11 INDUSTRIAL ASPECTS OF SOIL MICROBES	183
<i>Mukul Sharma and Shivani Dubey</i>	
INTRODUCTION	183
BACTERIA	184
Biocontrol Agent	185
Production of Gums (Xanthan Gum)	186
Production of Organic Compounds	186
Microbial Decomposition of Petroleum Products	187
Waste Processing for Bio-Fuel Production	187
ACTINOMYCETES	187
Commercial Production of Useful Compounds by Actinomycetes	188
Enzymes	188
Antibiotics	188

CHAPTER 11

Industrial Aspects of Soil Microbes

Mukul Sharma^{1*} and Shivani Dubey²

¹ Faculty of Pharmacy, Medi-Caps University, Indore, M.P., India

² Acropolis Institute of Management Studies and Research, Indore, M.P., India

Abstract: The multifaceted potential of soil microorganisms is being exploited in various fields like agriculture, food and cosmetic industries, for the sustainability of the environment and in the industrial production of useful compounds. On the one hand, these microorganisms play an essential role in the nutrient cycling of minerals like phosphorus and nitrogen that are crucial for their survival and sustenance, along with making the soil fertile by releasing important growth-promoting hormones like ethylene, auxin, and cytokinin. On the other hand, the potential of soil actinomycetes like *Dactylosporangium*, *Ampullariella*, *Actinoplanes*, *Actinomadura*, and *Actinosynnema* is being explored extensively for the industrial production of new life-saving antibiotics. Many of the enzyme producing species like *Streptomyces ruber*, *S. lividan*, and *S. rutgersensis* are used in supplements for detergents, textiles, animal additives, paper, and pulp. *Xanthomonas* produces xanthan gum, which is used to thicken and stabilize foods and cosmetics. Screening desired microorganisms and manipulating them to obtain maximum production is a crucial step in industrial production. Hence, it can be concluded that soil microorganisms are important for diverse metabolite production useful in agriculture and industry as well as having the capability to transform recalcitrant compounds to reduce environmental pollution.

Keywords: Soil Microbes, *Xanthomonas*, Industrial Production, *Actinomycetes*, Single Cell Protein.

INTRODUCTION

Microorganisms have existed for a very long time on earth. Our planet is 4.6 billion years old, approximately. As per literature, the first microorganisms were about 3.86 billion years ago in the form of stromatolites, layered sedimentary formations that are created by photosynthetic cyanobacteria. We are all surrounded by microorganisms and can not imagine life without them. Some of them are harmful, but many of them are useful for human and industrial purposes. They are crucial for the production of a variety of metabolites that help in agricul-

* Corresponding author Mukul Sharma: Faculty of Pharmacy, Medi-Caps University, Indore, M.P., India; E-mail: mukulscsharma@gmail.com

Sustainable Innovation and Entrepreneurship Development

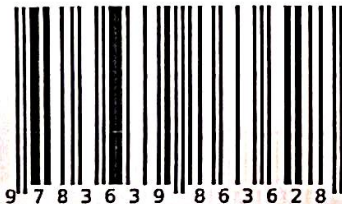
Our knowledge of business sustainability has evolved in recent years from corporate environmental management to sustainable entrepreneurship, from exploitation to exploration, and from efficiency to creativity. However, the present trends in sustainability point to the necessity of radical innovation through new enterprises within established organizations or entrepreneurial start-ups. The marketing and funding of these programmes, however, continue to be issues. This fascinating curated book explores how we may combine economic, social, and environmental sustainability to create novel new business models, including both conceptual and actual research.

With the help of this book, academics, researchers, and educators will be able to examine businesses whose tactics and goods are intended to provide creative answers to some of the most challenging social issues of the twenty-first century. To balance tackling social and ecological issues with our goals for economic development, a new generation of prosperous companies is actively involved in clean technology, renewable energy, and financially viable product system design and supply chain strategies.

Dr. Saumendra Das is Head of the Department at the School of Management Studies, GIET University, Gunupur, Odisha.

Dr. Smruti Rekha Sahoo is an Assistant Professor at the School of Management Studies, GIET University, Gunupur.

Dr. Rohit Bansal is working as faculty in Department of Management Studies in Vaish College of Engineering.



9 7 8 3 6 3 9 8 6 3 6 2 8

FOR AUTHOR USE ONLY

Scholars'
Press

Saumendra Das (Ed.)
Smruti Rekha Sahoo (Ed.)
Rohit Bansal (Ed.)

**Sustainable Innovation and
Entrepreneurship Development**

Das, Sahoo, Bansal (Eds.)

Contents

Preface	5
Acknowledgements	6

1.	A Conceptual Study of Role of Technology towards Green Banking to promote Sustainable Development in India Author (s): Mrs. Shrutika; K. Wani; Dr. Neelima; P. warke; Dr. Anubhuti; P. Shinde	8
2.	Sustainable Finance Author (s): Mala. C	20
3.	Social entrepreneurial spectrum: Understanding the need for social ecosystem through two schools of practice Author (s): Khushboo Vachhani Talati; Dr. Krishna Parmar	35
4.	Price Forecasting of Green gram for the state of Odisha to make farmers sustainable the year ahead Author (s): Dr. Rojalin Pani; Dr. SmrutirekhaSahoo; Soumya Ranjan Behera; Sunil Sanket Das	61
5.	AI-Powered Solutions for Successful Promotions with Marketing Opportunities and Challenges: The Fashion of Sustainable Marketing Author (s): Mr. Pramod Ranjan Panda; Mrs. Swapnamayee Sahoo	74
6.	Sustainable Societies: The Novel Theory Framework Author (s): Tapaswini Panda; Udaya Sankar Patro	111
7.	Challenges and Trends in Organizational management Author (s): Kruthi B. H; Lavanya S; Dr. Mynavathi L	139
8.	Management Education for Promoting Entrepreneurship in The Globalized Business Environment: Issues and Challenges Author (s): Mr. Pramod Ranjan Panda; Mrs. Swapnamayee Sahoo	164

Chapter-1

A Conceptual Study of Role of Technology towards Green Banking to promote Sustainable Development in India

Mrs. Shrutika K. Wani

Assistant Professor

Acropolis Institute of Management Studies & Research, Indore

Dr. Neelima P. Warke

Associate Professor

Godavari Institute of Management & Research, Jalgaon

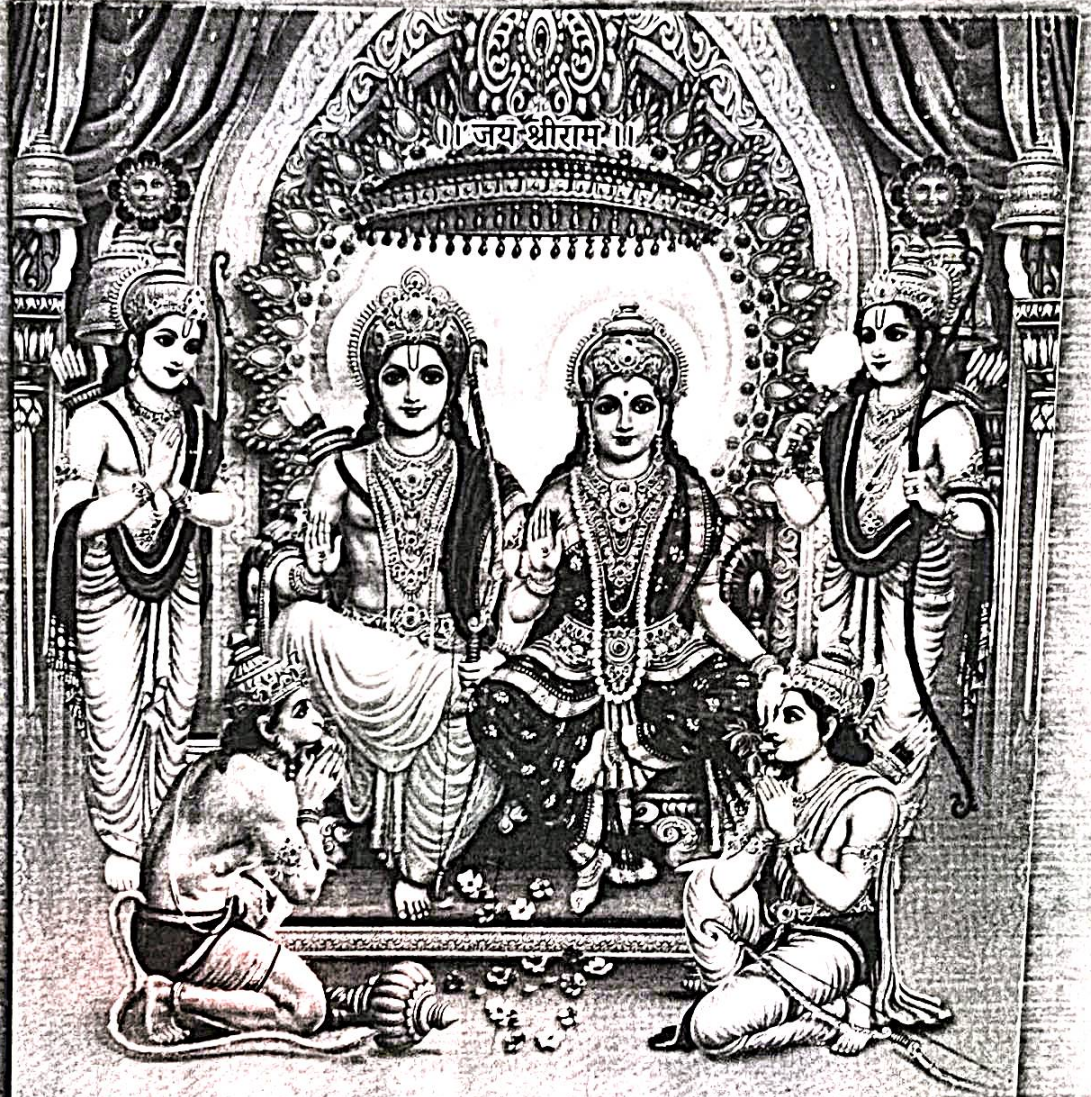
Dr. Anubhuti P. Shinde

Assistant Professor

S. D. Bansal College, Indore

Abstract:

In the 21st century where the era of globalization prevails, the depletion of greenery is being missed badly and it is time to sustain environmental balance. The society is becoming more and more concerned about the natural environment hence business organizations and corporations have started to modify their working habits. Most of Indian banks too adopting various technological changes in their working area. One of such major change is Green Banking. Green Banking refers to adopting environment friendly practices in banking sector and thereby reducing internal and external carbon footprints. It also ensures merging technological advancements in the banking industry. The paper focuses on various strategies adopted by Indian banks to promote green banking which will result in the sustainable development. The conclusion states that there is an urgent need to raise vulnerability, adopt, as



सीता निर्वासन

मत्य अथवा षडयंत्र



मेरे प्रिय रामभक्तों,

सीता-निर्वासन की कथा 'वाल्मीकि-रामायण' के उत्तरकाण्ड में आई है। मेरे द्वारा आप सभी के समक्ष प्रभु श्रीराम की कृपा से वाल्मीकि-रामायण एवं उत्तरकाण्ड में वर्णित प्रसंगों के माध्यम से यह सिद्ध करने का प्रयास किया गया है कि सीता-निर्वासन की कथा श्रीराम विरोधियों द्वारा रचा गया एक षडयंत्र है। सच क्या है, वह तो सिर्फ राम ही जानें। मेरे शोध परक प्रयास से मैंने यह जाना है कि मानव-मात्र को प्रेरणा देने वाले मेरे आराध्य प्रभु श्री राम ऐसा कदापि नहीं कर सकते।

॥ जय श्रीराम ॥

लेखक - परिचय



डॉ. पवन कुमार मित्तल

प्रभु श्रीराम में आगाध आस्था रखने वाले, इन्दौर शहर के श्रमिक क्षेत्र में पले-बढ़े डॉ. पवन कुमार मित्तल विगत 22 वर्षों से शिक्षा के क्षेत्र में कार्यरत हैं। वर्ष 2013 में मित्तल सर कैंसर रोग से पीड़ित थे। इसी दौरान सर ने 'डॉक्टर ऑफ फिलॉसफी' की उपाधि प्राप्त की। शिक्षण-कार्य के प्रति सर के समर्पण एवं जुझारू व्यक्तित्व के कारण रेनेसा महाविद्यालय द्वारा उन्हें वेलोर अवार्ड से सम्मानित किया गया। दृष्टिहीन विद्यार्थियों के शिक्षण में सहायता हेतु मित्तल सर द्वारा अनेक प्रयास राष्ट्रीय दृष्टिहीन कल्याण संघ के साथ मिलकर सम्पन्न किए गए हैं। मित्तल सर वर्तमान समय में एक्रोपोलिस महाविद्यालय में प्राध्यापक के पद पर कार्यरत हैं।

ISBN 93340035-6-7



9 789334 003567

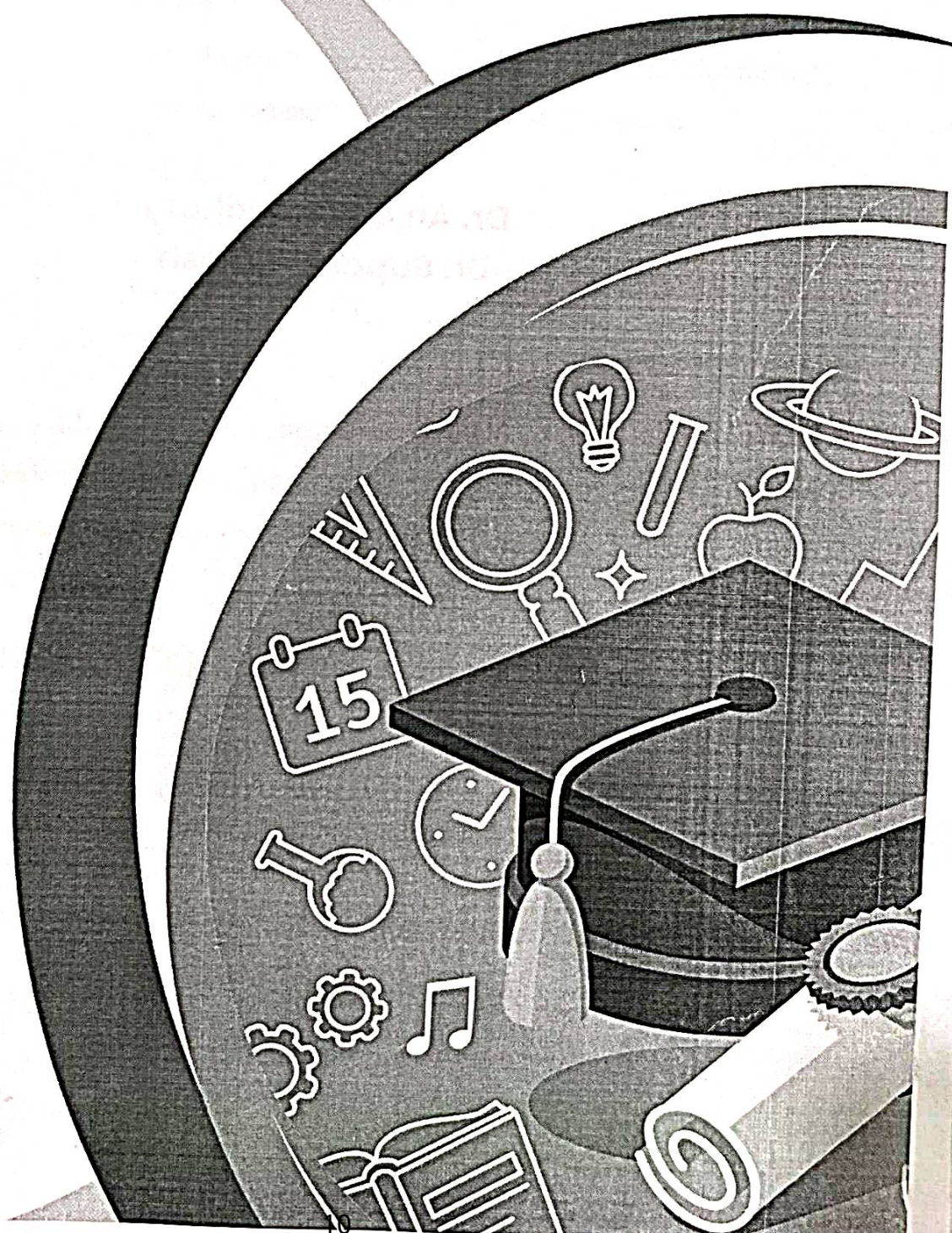
₹ 100/-

ISBN 978-81-961703



3

Synchronization of NAAC and NEP-2020



Editors
Dr. Suparna Ghosh
Dr. Anjali Choudhary

Synchronization of NAAC and NEP-2020

**Dr. Anjali Choudhary
Dr. Suparna Ghosh**

**CAREER[®]
COLLEGE
(Autonomous)**

Published by : Career Society, Bhopal

Website : <https://www.careersociety.in>

E-Mail : info@careersociety.in

Publisher's Address : ZS Enterprises

Raj Express Press Complex, Siddarth Enclave, Raisen
Road, Anand Nagar, Bhopal, M.P. - 462021

Edition Details : (I) 2023-24

ISBN : 978-81-961703-1-8

Cover Design : Mr. Azhar Uddin

Copyright@ : Authors

All rights reserved by author. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the author.

Index

S.No	Name	Title	Page No.
1	Miss Shalini Panjwani	Examining the Role of Resources and Governance in implementing the National Education Policy (NEP) in India.	1
2	Dr. Jayshree Siddhpuria,	Comparative Study between National Education Policy 1986 vs. 2020	10
3	P. Diana Josephine	Elements of Holistic Multidisciplinary Education– An inspiration from State Education Policy	20
4	Ms. Preeti Kalra	Value Education and the National Education Policy 2020: A Comprehensive Analysis	27
5	Dr. Priyaka Khanna	The role of teachers in promoting the National Education Policy (NEP) among students	36
6	Dr. Ranjan Jaykant Sabhaya	Challenges in teaching and learning in the context of NEP 2020	44
7	Dr. S.S. Vijayvargiya, Shristi Bhowmick	Role of Experiential Learning in Higher Education	54
8	Dr. N.B. Patil (Mail)	Role of Research in Higher Education in Context of NEP 2020	65
9	Mrs. Sukhvinder Kaur Walia	Predictive Analytics: An Effective Evaluation tool under NEP 2020	70
10	Mr. Swapnil Justin	Role of ICT in Effective Teaching and Learning	77
11	Dr. Suparna Ghosh, Dr. Shweta Sharma, Dr. Anita Singh, Dr. Ruchi Dubey Sharma, Dr. Anita K	Best Practices in Higher Education for the Implementation of National Education Policy 2020	86
12	Shriji Seth	The Role of a New Education Policy in Driving Educational Development	91
13	Prof. Shashi Patel, Dr. Niharika Gupta, Dr. Mohita Kulshrestha	Study of Information and Communication Technology on National Education Policy for Effective Teaching & Learning	92
14	Dr. Selvarani Michael,, Prof. Namitha	Equitable and Inclusive Education Under Nep-2020	100
15	Jitendra Kumar Jain	Enhancing Teaching and Learning: Harnessing the Power of ICT for Effective Education	106
16	Dr. Dalima Parwani	Delineate Academia-Industry Partnership for Exemplary Opportunities for Educationist, Researchers and Graduates: A More to skilled workforce	112
17	Anjul Dadoria, Suman Malik, Bharti Jain and Archana Singh	NEP 2020 – A Step towards a more Holistic and Multidisciplinary Education	118
18	Dr. Aarti Kaushal and Dr. Anamika Dubey	Role of Teacher's to Promote NEP Among Students	124
19	Dr. Nisha Raghuwanshi	कौशल आधारित उच्च शिक्षा	127
20	Dr Megha Singh	Reviving Multidisciplinary and Holistic Education Through NEP 2020	130
21	Shweta Adlak	The Impact of Information and Communication Technology on National Education Policy for Effective Teaching & Learning	140
22	Mr. Dayaram Rajpoot	Comparative Effects of Plank and Weight Training Exercises on Legs Strength of College Students	149
23	Dr. Harsha Chaturvedi	Skill Based Learning Necessary For Development Of Nation	155
24	Hari Krishan	Role of ICT in Teacher Training Education and Learning	161
25	Priyanka Chawke, Dr. Rakhi Saxena	Implementing Skill Based Learning In Higher Education In India	167

2

PROCEEDINGS OF THE

Examining the Role of Resources and Governance in implementing the National Education Policy (NEP) in India.

Miss Shalini Panjwani

Assistant Professor

Acropolis Institute of Management Studies & Research, Indore
professorshalinipanjwani@gmail.com Ph. No. 8989890875

Abstract

The National Education Policy (NEP) is a comprehensive framework that aims to transform India's education system to meet the needs of the 21st century. The successful implementation of the NEP requires effective governance at all levels, including the national, state, and local levels. To ensure effective governance, the government needs to provide clear policy direction, allocate adequate resources, empower local stakeholders, establish transparency and accountability mechanisms, prioritize teacher training, engage stakeholders, promote flexibility and adaptability, encourage collaboration and partnership, prioritize data-driven decision making, establish innovative financing mechanisms, promote inclusive governance, foster innovation and experimentation, address equity and inclusion, ensure alignment with other policies, strengthen the role of research, promote digital literacy, and encourage public-private partnerships. By prioritizing these elements of governance, India can transform its education system and provide quality education for all students. Effective governance of the education system is critical for the successful implementation of the NEP and the realization of India's educational goals.

Key words – NEP 2020, National Education Policy 2020, Education, Indian Education system.

Introduction

The National Education Policy (NEP) is a landmark policy framework in India that aims to revolutionize the education system to meet the evolving needs of the 21st century. The successful implementation of the NEP requires careful consideration of two key factors: resources and governance.

Resources, both financial and infrastructural, form the backbone of any educational reform. Adequate funding is essential to support infrastructure development, curriculum design, teacher training programs, technology integration, and the creation of learning materials. Without the necessary resources, the implementation of the NEP may face significant challenges and hinder the realization of its goals.

2

**PROCEEDINGS OF THE
NATIONAL WEBINAR ON BIODIVERSITY
AND CONSERVATION - 2023**

Aug 28, 2023

ISBN 978-93-90146-60-4

Editors

Dr. Sunil Prasad

Sri. Vasudev Jatawan

Reviewer

Dr. Muthumula Chandra Mohan Reddy

Organized by

Government College, Nagda, Ujjain, Madhya Pradesh, India

Proceedings of the National Webinar on Biodiversity and Conservation – 2023

ISBN 978-93-90146-60-4

Copyright © 2023, IMRF INTERNATIONAL PUBLICATIONS

All rights reserved.

No part of this book may be reproduced in any form of print & electronic means without the written permission of the copyright owner.

August 2023 Print.

Published by

International Multidisciplinary Research Foundation

1-90, Near VTPS Main Gate, Ibrahimpatnam, Krishna Dt, A.P., India

DISCLAIMER

The authors are solely responsible for the contents of the papers compiled in this volume. The Publishers or editors do not take any responsibility for the same in any manner. Errors, if any, are purely unintentional and readers are requested to communicate such errors to the editors or publishers to avoid discrepancies in future.

Typeset & Printing by

IMRF INTERNATIONAL PUBLICATIONS

1-90, Near VTPS Main Gate,

Ibrahimpatnam, Krishna Dt, A.P., India

Website : www.imrfedu.org | Email: info@imrf.in

Tel: +91 9618777011

CONTENTS

1	SYNERGIZING SUSTAINABLE DEVELOPMENT AND BIODIVERSITY CONSERVATION: STRIKING THE VITAL BALANCE	21
	<i>Shalini Panjwani</i>	
2	BIODIVERSITY OF MADHYA PRADESH: A COMPREHENSIVE REVIEW	22
	<i>Savita Marmat, Asaram Chouhan</i>	
3	BIODIVERSITY MONITORING AND MAPPING: TOOLS AND TECHNOLOGIES	23
	<i>Dr. Aradhna Kumari, Dr. Santosh Kumar Singh, Dr. P.K. Mishra, Dr. Satish Kumar Sharma</i>	
4	ROLE OF WILDLIFE CONSERVATION FOR SUSTAINABLE DEVELOPMENT	24
	<i>Neetu Pandey</i>	
5	BIODIVERSITY AND AGRICULTURE: ENHANCING SUSTAINABLE FOOD PRODUCTION. GROWING GREEN: HARNESSING BIODIVERSITY FOR SUSTAINABLE AGRICULTURAL DEVELOPMENT	25
	<i>Dr. Santosh Kumar Singh, Dr. Aradhna Kumari, Dr. Aparna Jaiswal, Dr. Rashmi Mishra</i>	
6	BIODIVERSITY CONSERVATION AND SUSTAINABLE DEVELOPMENT	26
	<i>Prahlad Dube</i>	
7	TRADITIONAL ECOLOGICAL KNOWLEDGE (TEK) IN BIODIVERSITY CONSERVATION	29
	<i>Sonakshi Solanki, Chandini Jaiswal, Usha Verma, Rachna Khandelwal</i>	
8	STUDIES ON FISH DIVERSITY AND INTERACTIONS WITH ZOOPLANKTONS IN RELATION TO WATER QUALITY	32
	<i>Bhawna Srivastava, Reddy P.B</i>	
9	IMPACT OF URBANIZATION ON BIODIVERSITY	47
	<i>Pratibha Tripathi, Arun Kumar Tewari</i>	
10	COMPARATIVE ANALYSIS OF BIODIVERSITY INDEXES SOFTWARE FOR ACCURATE ASSESSMENT	53
	<i>Bhawna Srivastava</i>	

Proceedings of the National Webinar on Biodiversity and Conservation - 2023

ISBN 978-93-90146-60-4

SYNERGIZING SUSTAINABLE DEVELOPMENT AND BIODIVERSITY CONSERVATION: STRIKING THE VITAL BALANCE

SHALINI PANJWANI

Abstract: This research paper delves into the intricate synergy between sustainable development and biodiversity conservation, highlighting the imperative of achieving a harmonious equilibrium. In an era marked by growing environmental concerns, this paper explores the strategies and challenges associated with striking a delicate balance between advancing human progress and safeguarding Earth's rich biodiversity. By investigating case studies, policy frameworks, and interdisciplinary perspectives, the research sheds light on the multifaceted connections between sustainable development goals and the preservation of diverse ecosystems and species.

The paper emphasizes the critical need to align economic, social, and environmental objectives, acknowledging that the unchecked pursuit of development can lead to detrimental consequences for biodiversity. Through a comprehensive analysis of successful integration, it showcases instances where conservation initiatives have concurrently supported local livelihoods, fostered resilience, and maintained ecological integrity. Furthermore, the abstract underscores the pivotal role of education, community engagement, and policy coherence in navigating the path towards sustainable coexistence.

This research paper contributes to the ongoing discourse by highlighting that a symbiotic relationship between sustainable development and biodiversity conservation is not only desirable but also essential for long-term global well-being. By recognizing the intricate interplay between human aspirations and the natural world, societies can collectively strive for progress that respects the intricate web of life on Earth. As such, the abstract encapsulates the urgency of synergizing sustainable development and biodiversity conservation, advocating for a future where humanity thrives while preserving the planet's invaluable biological heritage.

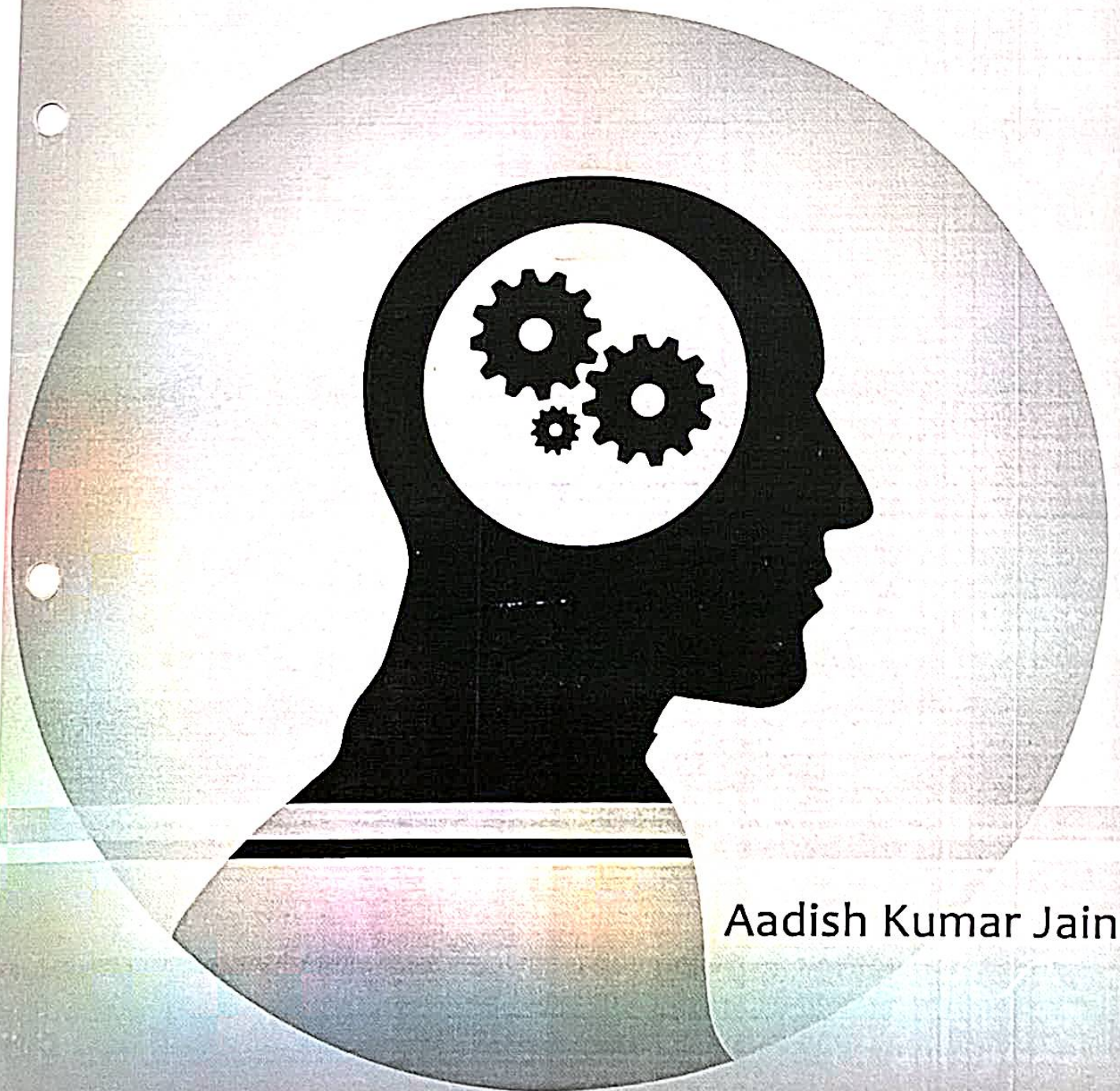
Keywords: Sustainable Development, Biodiversity, Environment, Social, Earth.

Shalini Panjwani

Assistant Professor, Acropolis Institute of Management Studies & Research

Email: professorshalinipanjwani@gmail.com

SKILL BASED LEARNING AND **EMPLOYABILITY**



Aadish Kumar Jain

Skill Based Learning and Employability

Mr. Aadish Kumar Jain



Text © Mr. Aadish Kumar Jain 2023

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, resold, or otherwise circulated without the copyright owner's prior written consent in any form of binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser and without limiting the rights under copyright reserved above.

No part of this publication may be reproduced, stored in or introduced into a retrieval system or transmitted in any form or by any other means without the permission of the copyright owner.

Publisher

ASIAN PRESS BOOKS
612, Saltee Plaza, 6th Floor,
1/G Khudiram Bose Sarani
Jessore Road, Kolkata-700080
Mob: 7001813717
www.asianpress.in

ISBN: 978-93-5788-083-1

1st Edition September 2023

MRP ₹599/-

Table of Contents

S.No.	Title of Chapter	Author's Name	Page No.
01.	Learning and Employability in India : A Comprehensive Analysis	Dr. Mahesh Bansiya	4
02.	Promoting Social Equity and Inclusive Higher Education for Employment in India	Priyanka Chawke	14
03.	A Comparative Study of Skill Based Learning Educational Programmes Towards Success of Adolescent's Life Skills Abilities	Jyotsana Pachoriya	18
04.	Skill Development and Employment	Mrs. Sonal Godha	27
05.	Role of Higher Education in Employability	Aadish Kumar Jain	31
06.	Importance and Effectiveness of Skill Based Learning	Dr Ayushi Paliwal	36
07.	Key Employability Skills in NEP-2020: A Special Reference to India	Dr. Hansraj Patidar	40
08.	Learning Chemistry via Skill-Based Practical's	Manohar Solanki & Reena Gami	51
09.	Importance and Effectiveness of Skill Based Learning	Dr. Smita Derashree	56
10.	Role of Skill Based Learning in Enhancing Employability	Akanksha Shrivastava	65
11.	Skill India Mission Vision: An Initiative for transformation of Education System	Dr.Garima Choubey	73
12.	Empowering Careers: Navigating the Role of Higher Education in Employability	Shalini Panjwani	84

Empowering Careers: Navigating the Role of Higher Education in Employability

Shalini Panjwani
Assistant Professor

Acropolis Institute of Management Studies & Research, Indore

Email: professorshalinipanjwani@gmail.com

Abstract: This research paper thoroughly examines the intricate relationship between higher education and employability, showcasing higher education institutions as key contributors to students' success in an evolving job market. It investigates how these institutions equip students with essential skills and attributes, both technical and soft, through proactive strategies aligned with industry demands. The paper underscores that employability goes beyond academics, embracing qualities like a growth mindset and adaptability, which institutions foster through diverse curricula and support services. By facilitating experiential learning, industry partnerships, and career development integration, higher education bridges theory and practice, ensuring graduates are job-ready. Ultimately, the paper underscores higher education's vital role in cultivating a skilled, resilient, and innovative workforce, supported by a comprehensive review of literature in the field.

Key words: Higher Education, Growth, Job, Employment, Technical skills, Soft skills etc.

Introduction

In today's ever-changing job market, characterized by continuous technological advancements and shifting skill demands, higher education institutions hold a crucial role in equipping individuals for successful careers. This research paper extensively examines the intricate link between higher education and employability, emphasizing how these institutions significantly contribute to graduates' readiness for the swiftly evolving workforce.

As the job landscape evolves due to technological integration and skill evolution, higher education's significance in molding corporate-ready professionals becomes evident. This paper delves into the dynamic interaction between higher education and employability, exploring how these institutions enhance skills, attributes, and experiential knowledge essential for graduates to navigate complex professional terrains.

This paper acknowledges the transformative shift in today's job market, highlighting the symbiotic relationship between higher education and employability. It meticulously explores how higher education institutions enhance graduates' preparedness for workforce demands, bridging theoretical knowledge and real-world application to cultivate adaptable and innovative professionals.

Central to this investigation is the understanding that higher education serves as more than a knowledge conduit. It cultivates not only subject expertise but also critical thinking,

Integrative Strategies for Bioremediation of Environmental Contaminants, Volume Two

Contents

List of contributors	xvii
CHAPTER 1 Bioaugmentation: an emerging ecofriendly technology for wastewater treatment.....	1
<i>Anita V. Handore, Vinita S. Jagtap, Sharmila S. Ghangale, Sharad R. Khandelwal, Avinash D. Bholay, Rajib Karmakar and Dilip V. Handore</i>	
1 Introduction	1
1.1 Need of bioaugmentation	2
1.2 Significance of bioaugmentation.....	2
1.3 Factors affecting bioaugmentation efficiency.....	2
1.4 Advantages of bioaugmentation.....	4
1.5 Bioaugmentation products.....	7
1.6 Reasons for failures/limitations of bioaugmentation technologies	7
1.7 Promising strategies—mechanisms for efficient bioaugmentation	8
1.8 Applications of bioaugmentation	10
1.9 Future prospects of bioaugmentation for wastewater treatment	12
2 Conclusions	13
Acknowledgment	14
References.....	14
CHAPTER 2 Role of biochar and modified biochar for effective removal of heavy metals.....	17
<i>Parul Chugh, Ritika Kapoor, Lashika Batra and Rachana Singh</i>	
1 Introduction	17
2 Heavy metal pollution in soil	18
3 Biochar	19
3.1 Preparation of Biochar	19
3.2 Properties of Biochar.....	20
4 Role of biochar in effective removal of heavy metals.....	21
4.1 Ion exchange.....	22
4.2 Precipitation.....	22
4.3 Complexation.....	22
4.4 Adsorption	23
5 Modifications of biochar in effective removal of heavy metals	23
5.1 Chemical oxidation	24
5.2 Chemical reduction	24
5.3 Metal impregnation	24

v

CHAPTER 10 Application of biochar for soil remediation	163
<i>Jagdish Gabhane, Sneha T. Bankar and Vivek P. Bhangre</i>	
1 Introduction	163
2 Significance of feedstock	165
2.1 Quantitative importance of feedstock availability	165
2.2 Significance of chemical composition on quality of biochar.....	166
3 Methods of biochar preparation.....	167
3.1 Slow pyrolysis	167
3.2 Fast pyrolysis.....	169
3.3 Microwave heating	169
3.4 Magnetic biochar.....	170
3.5 Vacuum pyrolysis	170
3.6 Torrefaction	170
3.7 Hydrothermal carbonization.....	170
4 Biochar as soil remediation	171
4.1 Soil health stimulator	171
4.2 Biochar as nutrient sink	173
4.3 Effects of biochar on microbial diversity	174
4.4 Effects of biochar on soil enzymes.....	176
4.5 Effects of biochar amendment on immunity of plants.....	179
5 Summary	180
References.....	181
Further reading	185
CHAPTER 11 Microbe-assisted heavy metal phytoremediation	187
<i>Pranoti Belapurkar, Shivani Dubey and Seema Kelotra</i>	
1 Introduction	187
1.1 Microbe-assisted heavy metal remediation by plants.....	188
2 Metal detoxification	189
2.1 Bioaccumulation.....	189
2.2 Bioleaching.....	190
2.3 Bioexclusion	190
3 Metal mobilization	191
3.1 Acidification	191
3.2 Protonation.....	191
3.3 Chelation.....	191
4 Metal immobilization.....	192
4.1 Precipitation.....	192
4.2 Alkalinization	193
4.3 Complexation.....	193

Microbe-assisted heavy metal phytoremediation

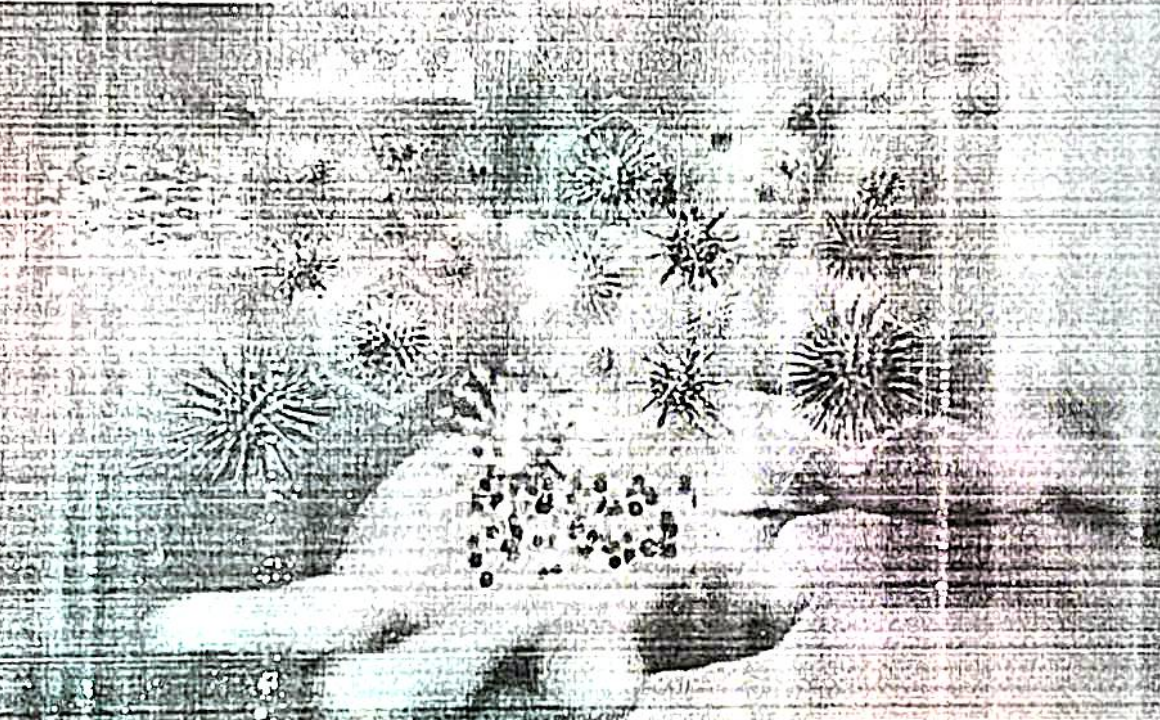
Pranoti Belapurkar, Shivani Dubey and Seema Kelotra

Department of Biosciences, Acropolis Institute, Indore, Madhya Pradesh, India

1. Introduction

All living organisms including microorganisms dwell on natural resources like soil, water, and air. Indiscriminate release of heavy metals resulting from different modernization and anthropogenic activities is presenting a great threat not only to these natural resources but also to the food safety and security. The ever-increasing population of humankind adds to the anthropogenic pressure resulting in change in traditional agricultural practices and fast industrialization causing disruption of the natural ecosystems (Sarwar et al., 2017). Globally, around five million sites have been identified with heavy metal/metalloid pollution where their concentration in soil well exceeds the regulatory levels (Li et al., 2019). The major heavy metal pollutants are arsenic, chromium, cadmium, lead, copper, zinc, and mercury (Liu et al., 2013; Henao and Herrera, 2021). These heavy metal pollutants are extremely toxic to living forms even at extremely low concentration (Atobatele and Olutone, 2015). They are nonbiodegradable and hence become an integral part of the food chain and adversely affect human health by acting as carcinogen, mutagen, and teratogen (Ali et al., 2013; Ahemad and Kibret, 2013) as well as affect soil fertility and soil microbial diversity (Huang et al., 2009). Thus a lot of remediation strategies have been developed to relieve the soil from the heavy metal stress and preserve the environment to protect life which includes physical, chemical, and biological technologies. The physico-chemical techniques are costly and are with many deficiencies as they produce secondary pollutants which further add to the adversity on soil fertility (Glick, 2010; Henao and Herrera, 2021). Biological techniques on the other hand are sustainable, environment friendly, and benign (Henao and Herrera, 2021). Bioremediation is a technique where microorganisms remove heavy metal pollutants via different strategies, while phytoremediation involves heavy metal pollutant removal using plants (Kumar Mishra, 2017; Doble and Kumar, 2005). Both of these bioremediation methods are economic, eco-friendly, and effective. Major bioremediation techniques include biosorption, biomineralization, and biooxidation (Jin et al., 2018). Phytoremediation involves plant–soil–atmosphere interactions such as phytoextraction, phytostabilization, phytovolatilization, and rhizofiltration. All of these techniques are dependent on soil, water, and climatic conditions making phytoremediation a slow and seasonal process (Laghlimi et al., 2015). Studies have shown that heavy metal-resistant microbe and plant interactions are very effective in heavy metal remediation. This synergism results in very fast, safe, and effective remediation making it an alternative method of choice for heavy metal remediation (Khan and Doty, 2011; Glick, 2014; Ahemad, 2015; Ma et al., 2016; Mishra et al., 2017; Henao and Herrera, 2021).

Developments in Applied Microbiology and Biotechnology



Integrative Strategies for
Bioremediation of Environmental
Contaminants, Volume Two
Avenues to a Cleaner Society

Edited by
Riti Thapar Kapoor
Maulin P. Shah



①

BOOK CHAPTER

Contents

List of contributors xvii

CHAPTER 1 Bioaugmentation: an emerging ecofriendly technology for wastewater treatment..... 1

*Anita V. Handore, Vinita S. Jagtap, Sharmila S. Ghangale,
Sharad R. Khandelwal, Avinash D. Bholay, Rajib Karmakar and
Dilip V. Handore*

1	Introduction	1
1.1	Need of bioaugmentation	2
1.2	Significance of bioaugmentation.....	2
1.3	Factors affecting bioaugmentation efficiency	2
1.4	Advantages of bioaugmentation.....	4
1.5	Bioaugmentation products.....	7
1.6	Reasons for failures/limitations of bioaugmentation technologies	7
1.7	Promising strategies—mechanisms for efficient bioaugmentation	8
1.8	Applications of bioaugmentation	10
1.9	Future prospects of bioaugmentation for wastewater treatment	12
2	Conclusions	13
	Acknowledgment	14
	References.....	14

CHAPTER 2 Role of biochar and modified biochar for effective removal of heavy metals..... 17

Parul Chugh, Ritika Kapoor, Lashika Batra and Rachana Singh

1	Introduction	17
2	Heavy metal pollution in soil	18
3	Biochar	19
3.1	Preparation of Biochar	19
3.2	Properties of Biochar.....	20
4	Role of biochar in effective removal of heavy metals	21
4.1	Ion exchange.....	22
4.2	Precipitation.....	22
4.3	Complexation.....	22
4.4	Adsorption	23
5	Modifications of biochar in effective removal of heavy metals	23
5.1	Chemical oxidation	24
5.2	Chemical reduction	24
5.3	Metal impregnation	24

v

CHAPTER 10 Application of biochar for soil remediation 163
Jagdish Gabhane, Sneha T. Bankar and Vivek P. Bhange

1	Introduction	163
2	Significance of feedstock	165
2.1	Quantitative importance of feedstock availability	165
2.2	Significance of chemical composition on quality of biochar	166
3	Methods of biochar preparation	167
3.1	Slow pyrolysis	167
3.2	Fast pyrolysis	169
3.3	Microwave heating	169
3.4	Magnetic biochar	170
3.5	Vacuum pyrolysis	170
3.6	Torrefaction	170
3.7	Hydrothermal carbonization	170
4	Biochar as soil remediation	171
4.1	Soil health stimulator	171
4.2	Biochar as nutrient sink	173
4.3	Effects of biochar on microbial diversity	174
4.4	Effects of biochar on soil enzymes	176
4.5	Effects of biochar amendment on immunity of plants	179
5	Summary	180
	References	181
	Further reading	185

CHAPTER 11 Microbe-assisted heavy metal phytoremediation 187
Pranoti Belapurkar, Shivani Dubey and Seema Kelotra

1	Introduction	187
1.1	Microbe-assisted heavy metal remediation by plants	188
2	Metal detoxification	189
2.1	Bioaccumulation	189
2.2	Bioleaching	190
2.3	Bioexclusion	190
3	Metal mobilization	191
3.1	Acidification	191
3.2	Protonation	191
3.3	Chelation	191
4	Metal immobilization	192
4.1	Precipitation	192
4.2	Alkalinization	193
4.3	Complexation	193

Microbe-assisted heavy metal phytoremediation

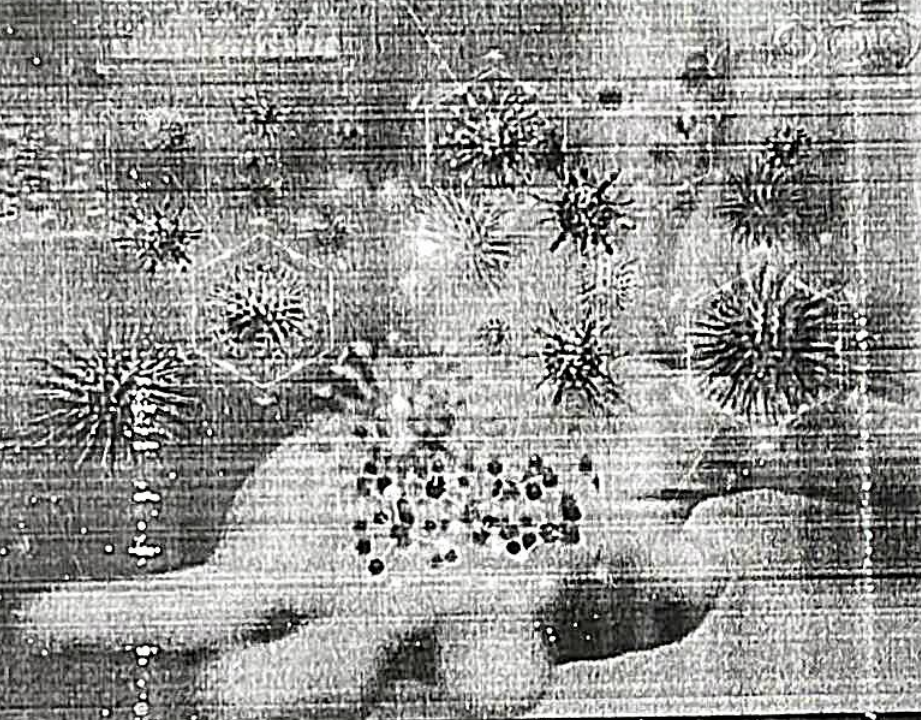
11

Pranoti Belapurkar, Shivani Dubey and Seema Kelotra
Department of Biosciences, Acropolis Institute, Indore, Madhya Pradesh, India

1. Introduction

All living organisms including microorganisms dwell on natural resources like soil, water, and air. Indiscriminate release of heavy metals resulting from different modernization and anthropogenic activities is presenting a great threat not only to these natural resources but also to the food safety and security. The ever-increasing population of humankind adds to the anthropogenic pressure resulting in change in traditional agricultural practices and fast industrialization causing disruption of the natural ecosystems (Sarwar et al., 2017). Globally, around five million sites have been identified with heavy metal/metalloid pollution where their concentration in soil well exceeds the regulatory levels (Li et al., 2019). The major heavy metal pollutants are arsenic, chromium, cadmium, lead, copper, zinc, and mercury (Liu et al., 2013; Henao and Herrera, 2021). These heavy metal pollutants are extremely toxic to living forms even at extremely low concentration (Atobatele and Olutone, 2015). They are nonbiodegradable and hence become an integral part of the food chain and adversely affect human health by acting as carcinogen, mutagen, and teratogen (Ali et al., 2013; Ahemad and Kibret, 2013) as well as affect soil fertility and soil microbial diversity (Huang et al., 2009). Thus a lot of remediation strategies have been developed to relieve the soil from the heavy metal stress and preserve the environment to protect life which includes physical, chemical, and biological technologies. The physico-chemical techniques are costly and are with many deficiencies as they produce secondary pollutants which further add to the adversity on soil fertility (Glick, 2010; Henao and Herrera, 2021). Biological techniques on the other hand are sustainable, environment friendly, and benign (Henao and Herrera, 2021). Bioremediation is a technique where microorganisms remove heavy metal pollutants via different strategies, while phytoremediation involves heavy metal pollutant removal using plants (Kumar Mishra, 2017; Doble and Kumar, 2005). Both of these bioremediation methods are economic, eco-friendly, and effective. Major bioremediation techniques include biosorption, biomineralization, and biooxidation (Jin et al., 2018). Phytoremediation involves plant–soil–atmosphere interactions such as phytoextraction, phytostabilization, phytovolatilization, and rhizofiltration. All of these techniques are dependent on soil, water, and climatic conditions making phytoremediation a slow and seasonal process (Laghlimi et al., 2015). Studies have shown that heavy metal-resistant microbe and plant interactions are very effective in heavy metal remediation. This synergism results in very fast, safe, and effective remediation making it an alternative method of choice for heavy metal remediation (Khan and Doty, 2011; Glick, 2014; Ahemad, 2015; Ma et al., 2016; Mishra et al., 2017; Henao and Herrera, 2021).

2



Integrative Strategies for
Bioremediation of Environmental
Contaminants, Volume Two
Avenues to a Cleaner Society

Edited by
Riti Thapar Kappor
Maulin P. Shah



CHAPTER 10 Application of biochar for soil remediation	163
<i>Jagdish Gabhane, Sneha T. Bankar and Vivek P. Bhangre</i>	
1 Introduction	163
2 Significance of feedstock	165
2.1 Quantitative importance of feedstock availability	165
2.2 Significance of chemical composition on quality of biochar	166
3 Methods of biochar preparation	167
3.1 Slow pyrolysis	167
3.2 Fast pyrolysis	169
3.3 Microwave heating	169
3.4 Magnetic biochar	170
3.5 Vacuum pyrolysis	170
3.6 Torrefaction	170
3.7 Hydrothermal carbonization	170
4 Biochar as soil remediation	171
4.1 Soil health stimulator	171
4.2 Biochar as nutrient sink	173
4.3 Effects of biochar on microbial diversity	174
4.4 Effects of biochar on soil enzymes	176
4.5 Effects of biochar amendment on immunity of plants	179
5 Summary	180
References	181
Further reading	185
CHAPTER 11 Microbe-assisted heavy metal phytoremediation	187
<i>Pranoti Belapurkar, Shivani Dubey and Seema Kelotra</i>	
1 Introduction	187
1.1 Microbe-assisted heavy metal remediation by plants	188
2 Metal detoxification	189
2.1 Bioaccumulation	189
2.2 Bioleaching	190
2.3 Bioexclusion	190
3 Metal mobilization	191
3.1 Acidification	191
3.2 Protonation	191
3.3 Chelation	191
4 Metal immobilization	192
4.1 Precipitation	192
4.2 Alkalinization	193
4.3 Complexation	193

Microbe-assisted heavy metal phytoremediation

11

Pranoti Belapurkar, Shivani Dubey and Seema Kelotra

Department of Biosciences, Acropolis Institute, Indore, Madhya Pradesh, India

1. Introduction

All living organisms including microorganisms dwell on natural resources like soil, water, and air. Indiscriminate release of heavy metals resulting from different modernization and anthropogenic activities is presenting a great threat not only to these natural resources but also to the food safety and security. The ever-increasing population of humankind adds to the anthropogenic pressure resulting in change in traditional agricultural practices and fast industrialization causing disruption of the natural ecosystems (Sarvar et al., 2017). Globally, around five million sites have been identified with heavy metal/metalloid pollution where their concentration in soil well exceeds the regulatory levels (Li et al., 2019). The major heavy metal pollutants are arsenic, chromium, cadmium, lead, copper, zinc, and mercury (Liu et al., 2013; Henao and Herrera, 2021). These heavy metal pollutants are extremely toxic to living forms even at extremely low concentration (Atobatele and Olutone, 2015). They are nonbiodegradable and hence become an integral part of the food chain and adversely affect human health by acting as carcinogen, mutagen, and teratogen (Ali et al., 2013; Ahemad and Kibret, 2013) as well as affect soil fertility and soil microbial diversity (Huang et al., 2009). Thus a lot of remediation strategies have been developed to relieve the soil from the heavy metal stress and preserve the environment to protect life which includes physical, chemical, and biological technologies. The physico-chemical techniques are costly and are with many deficiencies as they produce secondary pollutants which further add to the adversity on soil fertility (Glick, 2010; Henao and Herrera, 2021). Biological techniques on the other hand are sustainable, environment friendly, and benign (Henao and Herrera, 2021). Bioremediation is a technique where microorganisms remove heavy metal pollutants via different strategies, while phytoremediation involves heavy metal pollutant removal using plants (Kumar Mishra, 2017; Doble and Kumar, 2005). Both of these bioremediation methods are economic, eco-friendly, and effective. Major bioremediation techniques include biosorption, biomineralization, and biooxidation (Jin et al., 2018). Phytoremediation involves plant–soil–atmosphere interactions such as phytoextraction, phytostabilization, phytovolatilization, and rhizofiltration. All of these techniques are dependent on soil, water, and climatic conditions making phytoremediation a slow and seasonal process (Laghlimi et al., 2015). Studies have shown that heavy metal-resistant microbe and plant interactions are very effective in heavy metal remediation. This synergism results in very fast, safe, and effective remediation making it an alternative method of choice for heavy metal remediation (Khan and Doty, 2011; Glick, 2014; Ahemad, 2015; Ma et al., 2016; Mishra et al., 2017; Henao and Herrera, 2021).



Shri Rajendra Suri Govt. College, Sardarpur- Rajgarh



College Code: 2206

National Webinar on
“Higher Education in Context of NEP 2020”

Date: 23rd August, 2023

पालन प्रतिवेदन





**Shri Rajendra Suri Govt. College,
Sardarpur (Dhar)**

Is Organizing National Webinar

On

**राष्ट्रीय शिक्षा नीति 2020 के
संदर्भ में उच्च शिक्षा
Higher Education in Context
of NEP 2020**

on 23rd August 2023 (11.30 Am Onwards)

Sponsored by Higher Education

Dept. Govt. of M.P



Eminent Speaker
Dr. Parth Rashmikant Bhatt
Assistant Professor, GES-II,
R. C. College of Commerce,
Ahmedabad



Eminent Speaker
Prof. Vikas Sharma
Assistant Professor,
PGDAV College,
Delhi University

About the College:



Shri Rajendra Suri Govt. College Sardarpur- Raigarh, Dha was established in the year 1987 in the tribal area. Th college has been endeavoring to cater to the needs c higher/advanced academic knowledge in arts, commerce computer in Raigarh- Sardarpur Region. The college aims t equip the students with the best possible holistic knowledge to make them able to contribute their best to the nation i this present era of globalization. The college has studer strength of more than 1700. The admissions are made as pe the department of higher education, Government of M.I The stipulations of the government are followed regardin access to disadvantaged communities and they are give financial and academic support accordingly. The campus i a confluence of teachers with variety of skills an experiences in diverse fields offering students not only a abundant academic wealth but also moral and ethic values.

About the Webinar:

The realisation of one's full potential as well as the creation of a just and equitable society are both essential for th advancement of one's country. Education is a ke foundation of any society. In order to adapt to the evolvn state of knowledge and establish international education standards, the new National Education Policy-2020 (NEP

2020) aims to implement considerable reforms in higher education. This necessitates a full comprehension of the provisions and the strategy for their efficient implementation.

This conference aims to provide a common forum for all education stakeholders, including policymakers, managers, faculty members, researchers, students, and representatives from the private sector, to discuss various viewpoints on the New National Education Policy-2020, comprehend its role in transforming higher education, and talk about any potential practical challenges.



Chief Patron
Dr. Kiranbala Saluja
Additional Director,
Dept. of Higher Education
Indore Division



Chief Guest
Shri Darmendra Mandloi
President, JBS
SRS Govt. College,
Sardarpur



Patron
Prof. L.S. Alawa
Incharge, Principal,
SRS Govt. College,
Sardarpur



Convenor
Dr. Sapna Kasliwal
Asst. Professor,
SRS Govt. College,
Sardarpur



Co-ordinator
Dr. D.S. Mujalda
Asst. Professor,
SRS Govt. College,
Sardarpur

Advisory Committee:

1. Prof. Sarita Jain, NAAC/IQAC Incharge, HOD Dept. of Arts
2. Prof. B.K. Jain, HOD Commerce
3. Dr. Mamta Das, HOD, Hindi
4. Prof. Surendra Rawat, HOD, Science
5. Dr. Rakesh Shinde, HOD, Sociology
6. Dr. Ranjana Patidar, HOD, English

Supporting Committee:

7. Dr. Jitendra Bhagore, Guest Faculty, Zoology
8. Dr. Nidhi Bajpai, Guest Faculty, Botany
9. Mrs. Lalima Vijayarajya, Guest Faculty, History
10. Mrs. Basanti Mujalda, Guest Faculty, Mathematics
11. Mr. Mohit Singh Chouhan Guest Faculty, Chemistry
12. Mrs. Reena Khandekar, Guest Faculty, Sports
13. Mrs. Snehlata Mandloi, Guest Faculty, Library
14. Dr. Mohan Singh Dawar, Lab Technician

Technical Committee:

15. Mr. Mahendra Alawa, Guest Faculty, Computer
16. Mr. Dipesh Dangl

Call for Research Paper/Article

We are soliciting manuscripts with the purpose of providing reference material for scholars, educationalists, scholars practitioners, and university students who need to learn more about the NEP 2020 and to visualize a unique education system to meet the global standards of education.

Sub Themes : (But Not Limited To)

- ❖ Road Map for Implementation of National Education Policy राष्ट्रीय शिक्षा नीति के कार्यान्वयन के लिए रोड मैप
- ❖ Re-imagining Vocational Education व्यावसायिक शिक्षा ई

पुनः कल्पना

- ❖ Reforms in Professional Education for Better Outcomes बेहतर परिणामों के लिए व्यावसायिक शिक्षा में सुधार
- ❖ Towards a More Holistic Education अधिक सम-शिक्षा की ओर
- ❖ Value Based Education for Socially Responsible Citizens सामाजिक रूप से जिम्मेदार नागरिकों के लिए मूल्य आधारित शिक्षा
- ❖ Optimal Learning Environment and Support System for Students छात्रों के लिए इष्टतम शिक्षा वातावरण और सहायता प्रणाली
- ❖ Multidisciplinary Education बहुविषयक शिक्षा
- ❖ Transforming India into a Vibrant Knowledge Society भारत को एक जीवंत ज्ञान समाज में बदलना
- ❖ Re-vamping Curriculum Pedagogy Assessment and Student Support for Enhanced Experiences उन्नत अनुभवों के लिए पाठ्यक्रम शिक्षाशास्त्र, मूल्यांकन और छात्र सहायता को फिर से तैयार करना
- ❖ Equity and Inclusion in Higher Education उच्च शिक्षा में समानता और समावेशन

Guidelines for the Paper/ Article

- **Paper/ Article is accepted in both the languages Hindi English.** Full paper whether in English or Hindi should not be more than 6-8 pages including figures, tables and references.
- **Title of the Paper** (Font size 14 Times New Roman)

Body of the paper: Font size 12, Font Style: Times New Roman, 1.5 Spacing, For Hindi, use Arial Unicode MS Font Size 12 or in Kruti Dev Font Size 14.

● Name of the Author, Designation, Affiliating organization, Email id and Mobile no. should be provided after the title of the paper.

● **References:** The list of all references should be alphabetically arranged.

Important Dates

- ❖ Submission of Chapter/Paper: 16th August 2023
- ❖ Publication of the Book (Tentative): 02nd week of September 2023.
- ❖ Registration and Presentation of Paper is free.

Submission & Registration Link

Google Form Link for Registration

<https://forms.gle/UTG5kECH45H5JWg36>

Contact Details

All other Information Regarding the Webinar will be shared in WhatsApp Group. Link to Join WhatsApp Group:

<https://chat.whatsapp.com/Dw8qtYRstH0v7GnrB7dlC>

Dr Sapna Kasliwal : 9826789525

Dr D.S.Mujalda : 7000505922



Higher Education in Context of NEP 2020

Patron

Prof. L.S. Alawa
Incharge Principal

Editors

Dr. Sapna Kasliwal
Asst. Professor, Commerce
 Dr. D.S. Mujalda
Asst. Professor, Commerce
 S.R.S. Government College
 Sardarpur, Dist- Dhar (M.P.)



Higher Education in Context of NEP 2020

Copyright- Editors- Dr. Sapna Kasliwal & Dr. D.S. Mujalda
 First Edition- August- 2023
 ISBN : 978-81-964267-3-6

Published By :

Sadbhawana Publication
 Near Rajeev Gandhi School Ambah
 Distt Morena (M.P.) - 476111
 Contact - 7987484155
 Email- sadbhanapublication@gmail.com
 website- www.sadbhanapublication.com

Printed At :

Thomson Press (INDIA)Ltd.
 New Delhi – 110020

Cover By: Krishna Sharma

Cover Photo by: Pinterest
 Book Design & Layout By: Krishna Sharma

No part of this book may be reproduced or stored in any form, mechanical, electronic, photocopying, recording or otherwise, in any form, without the prior written permission of the author and publisher. The views and opinions expressed are solely those of the author and do not necessarily reflect the official policy or position of the editor, publisher and printer. The content provided herein is solely the responsibility of the author and the author shall take full responsibility, liability and blame for any libel or lawsuit that results from anything written in the contents of the book.

Index

S.no	Title	Author Name	P.no
01	Revamping of Higher Education Policy is the outset for Holistic Education	Dr. Deevya Agrawal	01
02	NEP's 2020 Multidisciplinary Approach to Education: A Boon to Countless	Dr. Ruby Bhatt	06
03	Digitization through Online Teaching and Learning Tools: Opportunity Box for Rural India	Dr. Meenakshi Rathi	13
04	Preserving and Transmitting Traditional Indian Knowledge:	Dr. Sapna Kasliwal	24
05	Tech-Enabled Reforms: Investigating the Digital Framework for NEP 2020	Kapil Tarey	31
06	Analysis of New National Education Policy 2023	Dr. Priyanka Jain	41
07	NEP - For Better Opportunities & Outcomes	Dr. Prabha Soni	46
08	New Education Policy 2020: issues and challenges	Dr. Pallavi Mane	53
09	Role of Vocational Education in nep-2020	Dr. Bhavik Vora Dr. Anil Sharma Dr. Pranav Shrotriya	61
10	A Theoretical Review Study on National Education Policy 2020	Dr. Sakshi Motwani	66

1- Revamping of Higher Education Policy is the outset for Holistic Education

Dr. Deevya Agrawal

Assistant Professor

Acropolis Institute of Management Studies & Research, Indore

Abstract:

Indian History is loaded with the fact that Ancient India has proficiency in education system. Our Rishis Charak, Sushruta, Ved Vyas are still considered as most enlightened sages whose knowledge and work is still prototype for today's modern education. The facts which scientists are proving today were written by our Rishis millions of years back. Indian Universities like Takshasila, Nalanda, Vallabhi, and Vikramshilla are not new names. Here thousands of students studied in vibrant multi-disciplinary environment and thus demonstrated great success. It was the need of time to bring back this great Indian tradition which is already transforming other countries. This chapter an attempt to study the impact of NEP on the higher education.

Introduction:

A country is made by its people and thus for getting sustainable development it is very much essential that its people are well versed and educated. Government always seeks novel solutions to expand the access of education to every citizen and thus on 29th July 2020 our cabinet approved NEP. It's third time when India is witnessing changes in its education policy. It was very essential to make our citizen according to changing scenario of global ecosystem. Its time where a child should not only learn but should know how to learn. He must develop critical thinking and problem solving attitude. He should be quick enough to absorb, adopt and creative according to changing scenario and make himself adaptive to stand strongly in

~ 1 ~



Socio Economic Challenges after COVID Pandemic

Editors:
Dr. Partosh Awasthi
Dr. Manish Dubey



Socio Economic Challenges after COVID Pandemic
Dr. Partosh Awasthi, Dr. Manish Dubey



ISBN: 978-81-955202-0-2



HERF Publication
HIV 207 7al Prakash Ward Main Road Panagar,
Jabalpur MP



Copy Right @ 2022

First Edition 2022

ISBN – “978-81-953202-0-2”

Price: 230 INR

Size: A5

Copyrights © 2022

All rights reserved.

Bibliographic Information:

Title:

Socio Economics Challenges After COVID Pandemic

Editors

Dr. Paritosh Awasthi, Dr. Manish Dubey

Publisher

JHERF

Year - 2022



Publisher:

Publisher & Editor in Chief, RFI (registered under the government of India book Publication acts) India.

www.publication.rfiindia.com

Printing & Publisher Address:

H.No. 207 Jai Prakash Ward Main Road Panagar, Jabalpur, MP

A CONCEPTUAL STUDY ON CHANGES INTRODUCED IN EDUCATIONAL SYSTEM DURING COVID-19

Dr. Lalit Kumar Dubey

Associate Professor, Acropolis Institute of Management Studies and
Research Indore

Abstract- Covid-19 has inserted a dramatic change in teaching technology after 2019. The research focuses on an online telephonic conversation with private school teachers in Indore. 5 Schools have been selected area wise randomly. 16 teachers responded for answers about the topic discussed with them. As consequences of COVID-19 teachers responded that it is directly affecting their livelihoods. COVID-19 has changed overall pattern of education. Direct face to face classes have been turned in online classes. The distance between teachers and students is increased. Technology of audio visual presentation is being used to add the students online. This paper is reflecting light on gap between students and teacher to continue the learning process through online.

Keywords: COVID-19, online, Education system, Technology, Pattern of Education.

1 INTRODUCTION

Since January 2020 after starting growth of COVID-19 the education, students, teachers, parents all have been affected negatively in term of learning. Government has ordered to close all the educational institutions and only learning through online mode is permissible. The pandemic situation is adversely affected teaching and learning process all over the session. This research is conducted during the period of lock down on the basis of direct conversation with school teachers on mobile phones. This article is the brief effort to record their responses in limited time period. The responses of teachers in this regard are as under.

BOOK CHAPTER

Emerging Trends and Opportunities In The Field Of Commerce And Humanities

Editors

Dr. Sapna Kasliwal Dr. Dilip Kumar Gupta Dr. Snehlata Singh

Dr. D. S. Mujalda

Dr. Varsha Patel

First Edition 2024

AKSHARWARTA PUBLICATIONS, Ujjain, M.P., India

Crowd Funding : Emerging as an Exotic Means of Financing

Dr. Deevya Agrawal

Asst. Professor

Acropolis Institute of Management & Research

Abstract: Dynamism is must for sustainability. Economy also transforms itself many times to become friendlier to its determiners. Out of them one is crowd funding. There are many examples of one night sensation which proves power of digital crowd. In this chapter an attempt has been made to explore more about an unconventional means of finance i.e. crowd funding .Also this chapter tried to answer the question whether crowd funding has replaced the traditional mode of financing or it is an alternative .

Introduction:"Crowd funding is about storytelling, communication, technology and consumer behaviour coming together. It's not the amount of money raised that's important but the impact that it creates," says Ranganath Thota, Founder and CEO, Fuel A Dream.

Social media & digital platform has brought many changes which were never thought before. The power of crowd can be realised by seeing an innovative way of funding a project i.e. Crowd funding , where a project finds funds by pooling money of crowd in small amount collected through various online platforms via social media or crowd funding platforms after getting convinced by the campaign launched by the fund raiser . It is different from traditional approach of fund raising in which one had to contact banks, financial institutions, angle investors or venture capital firms etc. for the investment.

Here crowd funds a project or a business, rather than one or two investors (Belleflamme et al., 2012; Riedl, 2013). For this entrepreneur has to launch a campaign and seek the attention of large number of people and convince them that he has a unique idea and worthy project for the investment.

Keyword: Crowd Funding, Investors, Entrepreneurs, Investment, fund raiser

Objective:

1. To explore the financing mode of new generation.
2. To give suggestions on the basis of study.

Methodology:

ISBN. No.
978-81-950893-6-9

Emerging Trends and Opportunities In
The Field Of Commerce And Humanities

25

ISBN

ISBN:- 978-93-91941-94-9.

4

ANORA: Aeon of New Organized Research and Academics

Edition IVth

Indian Women's Role at Achieving an Equal Future in the World.

15 March 2022

Chief Editor

Dr. Indrajeet Ramdas Bhagat

**HoD, Faculty of Commerce Yeshwantrao Chavan College Ambajogai
District - Beed, State -Maharashtra**



Chapter 13

Contribution of Women Entrepreneurs in Development of Social Status of Slum Dwellers in Indore City

Dr. Lalit Kumar Dubey Associate Professor, Acropolis Institute of Management Studies and Research Indore

Introduction

The up gradation of slum society is based at least 50% in the hand of women population. The process of development starts from slum women's education, respect in family, eradication of domestic violence and opposition by the women itself results the up gradation in life style of their family members as living with physically and residential cleanliness, Improvement in tongue and communicational skill, understanding in dressing sense, enhanced learning ability and stimulating to become self-employed after being trained through government schemes and financial assistance, learning the importance of saving of money, use of safety techniques for escaping self from antisocial elements etc.

Key Words: Social Welfare Societies, Slum Women,

The research is being conducted in the slum areas Bheem Nager, Aheerkheri, Niranjapur, of Indore city, randomly selected from slum areas from the data have been collected. The study is focused on working women residing in slum areas. the noticeable efforts are being done by the entrepreneur women residing in slum area.

(i) Improved Entrepreneurial Skills:

Women also have benefited the option to pursue two or three petty businesses, change from one type of business to another, combine wage employment with small business like selling of vegetables and fruits etc.

(ii) Easy Access to Credit.

They are now at ease in their reach they can avail monies when they need, without having to pay any collateral. The most important effect of entrepreneurial activities performed by women in slum areas is to escape the slum dwellers from the clutches of the money lenders. Pledging on assets is also reduced.

(iii) Setting-Up of Businesses:

The slum women are now running their own business in kind of shop of grocery material, clothes, vegetables and fruits, handy crafts etc. Some women are running tailoring shops, making toys, envelopes like material from west material and earning

C.V.
Business case Studies pub.
②

SANITATION LAW

A Necessity

Foreword by
Shri Ganga Prasad, Hon'ble Governor of Sikkim

Editor-in-chief
Prof. (Dr.) Shefali Raizada

Editors
Ms. Ekta Gupta
Ms. Swati Kaushal



ABOUT THE BOOK

Prof. (Dr.) Shefali Raizada
Editor-in-Chief

Editor-in-Chief, Prof. (Dr.) Shefali Raizada, has two Masters and two Ph.D degrees in World History and Law. She is currently working as Additional Director & Joint Head in Amity Law School, Amity University, Noida Uttar Pradesh. She hails from renowned judicial family. She has done higher education from Lucknow University and other good universities. Her areas of specialization are Indian Legal History, International Relations, Intellectual Property Rights, Arbitration Dispute Resolution and Interdisciplinary stream.

She has travelled widely in India and abroad to participate in various conferences and presented several papers. She has chaired the conference sessions on various occasions. She received award for 'Best Research Paper' and 'Best Presentation' in International conference for her paper on ADR and other academic excellence awards. She has a number of articles to her credit and authored a book on North-East. She has been engaged in the reviewer and editorial team for two years for International Journal of University of Malaysia and passionate about writing and research. She has contributed her best in content writing for UG and PG courses for various universities. She is the Chief Editor of 'Amity International Journal of Legal and Multidisciplinary Studies', since 2017. She has been actively involved in Amity University uniform course coding and other scholastic activities and the Editor-in- Chief of more than eighteen books on diverse and interdisciplinary issues.

She has pursued and took initiatives for international collaborations with number of foreign universities and signed MoUs. In the recent years she has been conferred with 'Teaching Excellence Awards' from different agencies, 'Best Researcher Award 2018', in 2019 Global leaders Award-The Most Promising Women of the Year 2019, 'Visionary Leadership Award' and few more. She is an active member of Centre for Gender studies and actively involved in projects concerning social and women rights' issues. While serving in Amity Law School for past more than fourteen years, she has contributed to the development of Law school and provided opportunities for education, research and capacity building in the university. She has done voluntarily social work for skill development and women upliftment and employability.

Ms. Ekta Gupta
Editor

She is a double post-graduate in political science and masters in law. Ms. Ekta Gupta has been an academicians from past 13 years while associated with Amity Law School, Noida. She has published around 120 articles, chapters and research papers in various magazines, journals and books. She is the editor of around 15 books which were published by international publishers of repute. She has keen interest in doing innovative research in Multidisciplinary dimensions such as gender studies, sports law, space laws, media laws etc.

She is appointed as the national coordinator of Youth Parliament by the Ministry of Parliamentary Affairs. Due to her intriguing interest in serving the society and research, she is the editor of Amity International Journal of Legal and Multidisciplinary Studies. She is also the Convenor of Amity Centre for Gender Justice and Child Rights.

Ms. Swati Kaushal
Editor

She is an Assistant Professor of Law with Amity Law School, Amity University, Noida, AUUP. She is pursuing Ph.D in Criminology from Christ University and is an alumnus of Faculty of Law, University of Delhi for her postgraduate program. She completed her integrated law course, B.A. LL.B (Hons.) from Dr. Ram Manohar Lohiya National Law University. She is extensively involved in research with keen interest in criminology, socio-legal issues, jurisprudence, intellectual property laws. She has published research papers with various reputed journals. She is the editor of International Multi-disciplinary Journal of Amity Law School, Noida. She has presented papers in various national and international conferences including National Law University Delhi, Indian Law Institute and Jamia Millia Islamia. She has organized four Transdisciplinary conferences at Amity Law School, Noida. She has edited five books.



9 789391 345181

SATYAM LAW
INTERNATIONAL

Price : Rs. 995.00
\$ 45.00

Chapter 3	Gender Disparity in Availability of Sanitation Facilities at Workplaces- A Bottleneck to Equality....	25
	<i>Mr. Faiz Ayat Ansari</i>	
Chapter 4	Demystifying Right to Sanitation in India.....	39
	<i>Dr. Ruchi Lal</i>	
Chapter 5	Sanitation Laws - Implications, Challenges, and Innovations with respect to AWCs and Schools	57
	<i>Dr. Apeksha Kumari</i>	
Chapter 6	Sanitation Laws in India: Juxtaposition with W.H.O. or WHO Guidelines	71
	<i>Ms. Lovleen Sharma</i>	
Chapter 7	Swachh Bharat Abhiyan: A Case Study Based on Uttarakhand	85
	<i>Dr. Swati Bijawat & Ms. Manya Gupta</i>	
Chapter 8	Right to Health and Women Right to Have Safe and Clean Toilets.....	99
	<i>Dr. Kush Kalra & Ms. Bhanu Tanwar</i>	
Chapter 9	Menstrual Hygiene.....	115
	<i>Dr. Manu Gupta & Dr. Snehal Wamanrao Pakhale</i>	
Chapter 10	Water and Sanitation Hygiene Knowledge, Attitude and Practices in Rural Areas: A Case Study Based on Punjab.....	139
	<i>Dr. Rupinder Kaur & Ms. Neelma Devi</i>	
✓ Chapter 11	Impact of Inadequate Access to Water, Sanitation and Hygiene (WASH)	149
	<i>Dr. Geetanjali Chandra & Ms. Devika Ramachandran</i>	
Chapter 12	Understanding India's Urban and Rural Landscape Through the Lens of Sanitation and Sustainable Practices.....	163
	<i>Mr. Tharun Rana Vuyyuru</i>	
Chapter 13	We Spread the Dirt, they Get Killed for Scavenging – A Critical Study on Rights of Sanitation Workers and Manual Scavengers	177
	<i>Ms. Aarushi Relan & Ms. Kavya Budhiraja</i>	

Chapter 11

Impact of Inadequate Access to Water, Sanitation and Hygiene (WASH)

*Dr. Geetanjali Chandra**
*Ms. Devika Ramachandran***

ABSTRACT

In an increasingly globalized world, the impact of Water, Sanitation and Hygiene (WASH) related decisions cross borders and has been affecting everyone. Inadequate WASH conditions prevail in almost all the areas, from temporary refugee camps to prison to permanent homes. It is considered to be an important public health issue. Many researches on this topic suggests that lack of sanitation may contribute to poor health outcomes above and beyond pathogen exposure, particularly among women. Right to Water and Right to Sanitation has been considered as human rights and Water, like any other sector, has also gendered. The UN Commission on Sustainable Development has very aptly affirmed that 'water has a woman's face'. Even though Internationally and nationally, Water, Sanitation and Hygiene have been discussed and talked much, most of the countries lack policies and regulations that help women and girls to overcome challenges to get the rights. This article focuses on the impact of inadequate access to WASH especially in Women. This paper uses a gender lens to examine the legal and policy framework for sanitation in India and also across the globe. The paper also aims to compare the policies implemented in other developed countries.

* Professor, Indore Institute of Law, MP, India

** Law Lecturer, University of Bolton, Academic Center, RAK, UAE

Content missing

1

BOOK
CHAPTER

Title of the Book: "Prevailing Issues In Commerce & Management"

Edition: First- 2022

Copyright 2022 © Editor

Disclaimer

The author is solely responsible for the contents published in this book. The publishers or editors don't take any responsibility for the same in any manner. Errors, if any, are purely unintentional and readers are requested to communicate such errors to the editors or publishers to avoid discrepancies in future.

ISBN: 978-93-92473-25-8

MRP: ₹ 300

PUBLISHER & PRINTER: Blue Ink publishing house
1st floor opposite to Shree lekha Theatre
Chikkagamarur-577101, Karnataka, India.

Tel.: +91- 8050855786

E-mail: blueinkpublisherofficial@gmail.com

IMPRINT: Blue Ink print

A Paradigm Shift in Banking Methods

Dr. Virshree Tungare

Assistant Professor,

Acropolis Institute of Management Studies and Research, Indore (M.P.)

1. Introduction to Internet banking

A. Introduction

Internet banking is commonly known as online banking/ I-Banking where all banking transactions are executed with help of Internet. IB allows bank customers to make and receive payments digitally.

The extensive investment in IT by the Indian banking sector has brought improvement in the quality of customer service, enhancement in their performance, and most important processing of banking operations has become really fast. Banks facilitates its customers internet banking through various channels, such as mobile banking, telebanking, net banking, green banking, Artificial intelligence (AI), and data mining solutions.

Before seasoning Information Technology Act only a few private banks were providing IT services to their customer, those were basic services such as transfers and bill payments, with the new development of technology such as Machine learning and Artificial Intelligence each institution now allows their customers with some extended services(other than basics) such as open up new accounts and apply for credit cards, ordering cheques, putting stop payments on cheques, or reporting a change of address through online banking portal.

Application of digital payments and internet banking have opened up new services, unexplored markets and effective delivery channels of banking services in the banking industry.

B. Evolution of internet banking

Financial reforms have witnessed an innovative movement of banking services. The pressure of sheer compulsion of globalization and to cope with increasing overload and incompatibility of the manual system The Indian banking sector has accepted computerization since 1993.

This year "The employees' association of the Indian banks (IBA)" contracted an agreement with the bank manager about the introduction of computerized applications in banks. The year 1994 Reserve bank of India created a committee under the head of W S Saraf, the committee strongly recommended the use of Electronic fund transfer (EFT), the introduction of electronic clearing services, and the extension of Magnetic Ink Character Recognition (MICR) beyond metropolitan cities and branches. In 1996 Industrial Credit and Investment Corporation of India was the first to use Electronic banking in India by introducing online banking services in branches. Its initiatives were followed by HDFC Bank, IndusInd Bank, and Citibank, which started providing online banking facilities in 1999. The government of India passed the IT Act, of 2000 which delivers a legal acknowledgment to e-transactions and E-commerce.

The milestones of the development of Online Banking /Internet Banking in India are:

1. From 1980 to 1990's - Arrival of debit cards and credit card
2. From 1984 to 1988 – Banks started using computers, and MICR cheques were introduced.

Bright Sky
Publications

Publication Certificate

Ref: ATCS-01-0403

Date: 24-12-2021

To,
Dear Pushpanjali Sharma

This certificate confirms that **Pushpanjali Sharma** is the author of book chapter titled "**Chemical Biology in Drug Discovery**" of published book entitled "**Advanced Trends in Chemical Sciences (Volume - 1)**" having ISBN 978-93-92804-05-2.

Yours Sincerely,



Varsha Gupta
Bright Sky Publications
www.bspublications.com
Address: H-34/3, Sector - 3, Rohini, Delhi - 110085, India

ADVANCED TRENDS IN

①
BOOK
(PART)

CHEMICAL SCIENCES

Volume - 1

Chief Editor

Prof. Dr. K. Senthilkumar

Associate Professor, Department of Chemical Engineering, Kongu
Engineering College, Perundurai, Erode, Tamil Nadu, India

Co-Editor

Dr. Vijendra Singh Solanki

Assistant Professor, Department of Chemistry, School of Liberal Arts &
Sciences (SLAS), Mody University of Science and Technology,
Laxmangarh, Rajasthan, India

**Bright Sky Publications
New Delhi**

Published By: Bright Sky Publications

Bright Sky Publications

Office No 3, 1st Floor,

Pocket - H34, SEC-3,

Rohini, Delhi, 110085, India

Phone: +91-9911215212, +91-9999779515

Email: brightskypublications@gmail.com

Chief Editor: Prof. Dr. K. Senthilkumar

Co-Editor: Dr. Vijendra Singh Solanki

The author/publisher has attempted to trace and acknowledge the materials reproduced in this publication and apologize if permission and acknowledgements to publish in this form have not been given. If any material has not been acknowledged please write and let us know so that we may rectify it.

© Bright Sky Publications

Publication Year: 2021

Pages: 97

ISBN:

Book DOI:

Price: ₹ 707/-

Contents

Chapters	Page No.
1. Isolation of Compound from Natural Herbal Product and Characterization through Various Spectroscopic Techniques <i>(Raina Jadhav and Sangeeta Parihar)</i>	01-16
2. Introduction of Carbonfootprint with Reference to Indore City, M.P, India <i>(Dr. Sandhya Dixit)</i>	17-31
3. Synthetic Methods and Applications of Schiff Bases <i>(Premlata Gupta and Ruchi Shrivastava)</i>	33-46
4. Chemical Biology in Drug Discovery <i>(Dr. Seema Kelotr, Rati Trivedi Nair and Pushpanjali Sharma)</i>	47-59
5. Electrochemical Co-Deposition of Thin Films: An Emerging Branch of Material Science <i>(Pratibha Sharma)</i>	61-77
6. Heterocyclic Derivatives of Pyrimidines <i>(Ayaz Mahmood Dar and Shafia Mir)</i>	79-97

Chapter - 1
Isolation of Compound from Natural Herbal Product and Characterization through Various Spectroscopic Techniques

Authors

Raina Jadhav

Assistant Professor, Department of Chemistry, ISLE, IPS
Academy, Indore, Madhya Pradesh, India

Sangeeta Parihar

Assistant Professor, Department of Chemistry, Jai Narain Vyas
University, Jodhpur, Rajasthan, India

Chapter - 4

Chemical Biology in Drug Discovery

Dr. Seema Kelotr, Rati Trivedi Nair and Pushpanjali Sharma

Abstract

Drug discovery and development is fundamental to the safety of humans and sustainability of the pharmaceutical industries. Using chemical biology approaches to determine drug leads has become a commonly conventional path. Biological problems are mainly solved by chemical biology, through penetrating beforehand unknown targets for the pharmacophore of a potent drug. It is an influential tool to cram how these drug molecules interact with their particular targets, plus in cell functions, signal transduction and molecular recognition. There have been a rising number of new identified therapeutic targets and consequently validate because of functional genomics advances, which leads to the finding of several potent drug molecules via a range of high-throughput screening initiatives. In this chapter, we have highlighted some applications of chemical biology in the context of drug discovery.

Keywords: Chemical biology, genomics, proteomics, drug discovery, target validation, High-Throughput Screening (HTS)

1. Introduction

Research in chemistry is widely diverse and involves many areas of biology such as monitoring and removal of pollutants from the atmosphere; investigation of polysaccharides present on the cell surface; study of chromosomes, genes, and DNA replication; illumination of the role of small molecules in cell signaling; the production, conversion, and storage of energy; research on the creation of new materials for nanotechnology and for medical applications. This branch of study which deals with how chemistry can be applied to solve biological problems is known as chemical biology. It may be defined as the scientific discipline involving study of biological systems under the influence of chemical techniques and small molecules produced through synthetic chemistry.

16. Dec. 2021

28

आजादी के पश्चात झुग्गीवासी गरीब महिलाओं के उत्थान के लिए
किये गये महिला एवं बाल विकास विभाग के प्रयत्न

■ Dr. Lalit Kumar Dubey

Associate Professor

Acropolis Institute of Management Studies and Research Indore

महिलाओं एवं बाल विकास के द्वारा म. प्र. में महिलाओं की प्रगति के नए आयाम

मुख्यमंत्री श्री शिवराज सिंह चौहान का मानना है कि प्रदेश में महिलाओं के विकास के लिए एक सशक्त वातावरण तैयार हो ताकि वह अपने हित में स्वयं फैसला ले सकें। यहां पर श्री चौहान ने न सिर्फ महिलाओं को पुरुषों के बराबर खड़े होने का मौका दिया बल्कि उन गरीब घरेलू कामकाजी महिलाओं के चेहरों पर भी मुस्कराहट जगाई। शायद मध्यप्रदेश ऐसा पहला राज्य है जहां पर १३ अक्टूबर २००९ को शहरी घरेलू कामकाजी महिलाओं की पंचायत हुई और घरों में काम करने वाली महिलाओं को फोटो युक्त परिचय पत्र, उपचार, उनके बच्चों को निःशुल्क पाठ्य पुस्तक, प्रसूति सहायता, बीमा योजना, पेंशन आदि सुविधाएं उपलब्ध कराई।

मध्यप्रदेश में महिला व बाल विकास की दिशा में सरकार की सकारात्मक सोच का परिणाम है कि पिछले छः वर्षों में अनेक ठोस एवं सार्थक कदम उठाए गए। महिला एवं बाल विकास की प्राथमिकता में सम्मिलित करते हुए राज्य सरकार ने इसके बजट में भी निरंतर वृद्धि की है।

छः वर्ष पूर्व २००२-०३ में तत्कालीन राज्य सरकार ने महिलाओं एवं बच्चों के कल्याण के लिए विभागीय बजट में मात्र २२५ करोड़ ८६ लाख रुपये की राशि रखी थी जो वर्तमान बजट प्रावधान किया गया है। यह वृद्धि करीब १३१९.४४ करोड़ रु. आंकी गई। वित्तीय वर्ष २०१०-११ में कुल १८६०.२७ करोड़ रुपये का प्रावधान किया गया है जिसमें वर्ष २००९-१० की तुलना में २०५.०९ करोड़ रु की वृद्धि हुई है। यह वृद्धि लगभग १२.३९ प्रतिशत अधिक है।

बजट	
वर्ष	राशि करोड़ में
२००२-०३	३३५.८६
२००३-०४	३८५.९०
२००४-०५	४०८.८६
२००५-०६	४८१.७३
२००६-०७	५९५.५१

20 21
① BOOK MAP.
ADVANCED TRENDS IN

CHEMICAL SCIENCES

Volume - 1

Chief Editor

Prof. Dr. K. Senthilkumar

Associate Professor, Department of Chemical Engineering, Kongu
Engineering College, Perundurai, Erode, Tamil Nadu, India

Co-Editor

Dr. Vijendra Singh Solanki

Assistant Professor, Department of Chemistry, School of Liberal Arts &
Sciences (SLAS), Mody University of Science and Technology,
Laxmangarh, Rajasthan, India

**Bright Sky Publications
New Delhi**

Published By: Bright Sky Publications

Bright Sky Publications
Office No 3, 1st Floor,
Pocket - H34, SEC-3,
Rohini, Delhi, 110085, India
Phone: +91-9911215212, +91-9999779515
Email: brightskypublications@gmail.com

Chief Editor: Prof. Dr. K. Senthilkumar
Co-Editor: Dr. Vijendra Singh Solanki

The author/publisher has attempted to trace and acknowledge the materials reproduced in this publication and apologize if permission and acknowledgements to publish in this form have not been given. If any material has not been acknowledged please write and let us know so that we may rectify it.

© Bright Sky Publications

Publication Year: 2021

Pages: 97

ISBN:

Book DOI:

Price: ₹ 707/-

Contents

Chapters	Page No.
1. Isolation of Compound from Natural Herbal Product and Characterization through Various Spectroscopic Techniques <i>(Raina Jadhav and Sangeeta Parihar)</i>	01-16
2. Introduction of Carbonfootprint with Reference to Indore City, M.P, India <i>(Dr. Sandhya Dixit)</i>	17-31
3. Synthetic Methods and Applications of Schiff Bases <i>(Premlata Gupta and Ruchi Shrivastava)</i>	33-46
4. Chemical Biology in Drug Discovery <i>(Dr. Seema Kelotr, Rati Trivedi Nair and Pushpanjali Sharma)</i>	47-59
5. Electrochemical Co-Deposition of Thin Films: An Emerging Branch of Material Science <i>(Pratibha Sharma)</i>	61-77
6. Heterocyclic Derivatives of Pyrimidines <i>(Ayaz Mahmood Dar and Shafia Mir)</i>	79-97

Chapter - 1
**Isolation of Compound from Natural Herbal
Product and Characterization through Various
Spectroscopic Techniques**

Authors

Raina Jadhav

Assistant Professor, Department of Chemistry, ISLE, IPS
Academy, Indore, Madhya Pradesh, India

Sangeeta Parihar

Assistant Professor, Department of Chemistry, Jai Narain Vyas
University, Jodhpur, Rajasthan, India

Chapter - 4

Chemical Biology in Drug Discovery

Dr. Seema Kelotr, Rati Trivedi Nair and Pushpanjali Sharma

Abstract

Drug discovery and development is fundamental to the safety of humans and sustainability of the pharmaceutical industries. Using chemical biology approaches to determine drug leads has become a commonly conventional path. Biological problems are mainly solved by chemical biology, through penetrating beforehand unknown targets for the pharmacophore of a potent drug. It is an influential tool to cram how these drug molecules interact with their particular targets, plus in cell functions, signal transduction and molecular recognition. There have been a rising number of new identified therapeutic targets and consequently validate because of functional genomics advances, which leads to the finding of several potent drug molecules via a range of high-throughput screening initiatives. In this chapter, we have highlighted some applications of chemical biology in the context of drug discovery.

Keywords: Chemical biology, genomics, proteomics, drug discovery, target validation, High-Throughput Screening (HTS)

1. Introduction

Research in chemistry is widely diverse and involves many areas of biology such as monitoring and removal of pollutants from the atmosphere; investigation of polysaccharides present on the cell surface; study of chromosomes, genes, and DNA replication; illumination of the role of small molecules in cell signaling; the production, conversion, and storage of energy; research on the creation of new materials for nanotechnology and for medical applications. This branch of study which deals with how chemistry can be applied to solve biological problems is known as chemical biology. It may be defined as the scientific discipline involving study of biological systems under the influence of chemical techniques and small molecules produced through synthetic chemistry.

1
BOOK
PART.

Chapter - 4
Chemical Biology in Drug Discovery

Authors

Dr. Seema Kelotr

Assistant Professor, Department of Biosciences, Acropolis
Institute of Management Studies and Research, Indore,
Madhya Pradesh, India

Rati Trivedi Nair

Assistant Professor, Department of Biosciences, Acropolis
Institute of Management Studies and Research, Indore,
Madhya Pradesh, India

Pushpanjali Sharma

Assistant Professor, Department of Biosciences, Acropolis
Institute of Management Studies and Research, Indore,
Madhya Pradesh, India

Chapter - 4

Chemical Biology in Drug Discovery

Dr. Seema Kelotr, Rati Trivedi Nair and Pushpanjali Sharma

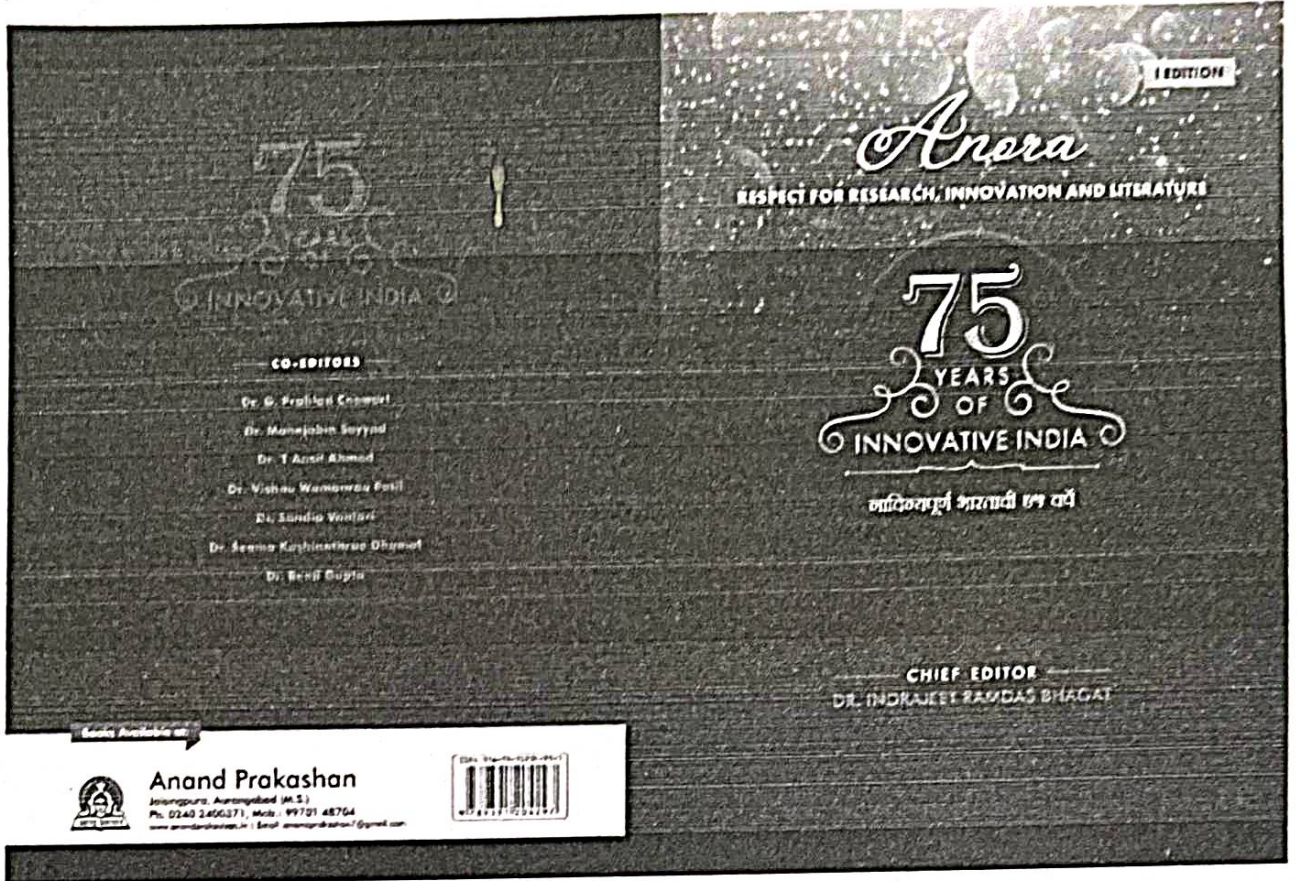
Abstract

Drug discovery and development is fundamental to the safety of humans and sustainability of the pharmaceutical industries. Using chemical biology approaches to determine drug leads has become a commonly conventional path. Biological problems are mainly solved by chemical biology, through penetrating beforehand unknown targets for the pharmacophore of a potent drug. It is an influential tool to cram how these drug molecules interact with their particular targets, plus in cell functions, signal transduction and molecular recognition. There have been a rising number of new identified therapeutic targets and consequently validate because of functional genomics advances, which leads to the finding of several potent drug molecules via a range of high-throughput screening initiatives. In this chapter, we have highlighted some applications of chemical biology in the context of drug discovery.

Keywords: Chemical biology, genomics, proteomics, drug discovery, target validation, High-Throughput Screening (HTS)

1. Introduction

Research in chemistry is widely diverse and involves many areas of biology such as monitoring and removal of pollutants from the atmosphere; investigation of polysaccharides present on the cell surface; study of chromosomes, genes, and DNA replication; illumination of the role of small molecules in cell signaling; the production, conversion, and storage of energy; research on the creation of new materials for nanotechnology and for medical applications. This branch of study which deals with how chemistry can be applied to solve biological problems is known as chemical biology. It may be defined as the scientific discipline involving study of biological systems under the influence of chemical techniques and small molecules produced through synthetic chemistry.



Books chapters (3)

Anora:

Respect for Research, Innovation and Literature

75
YEARS
OF
INNOVATIVE INDIA

गाविन्यपूर्ण भारताची ७५ वर्षे

✿ Chief Editor ✿

Dr. Indrajeet Ramdas Bhagat



Anand Prakashan

Anora : Respect for Research, Innovation and Literature

Author : Dr. Indrajeet Ramdas Bhagat

Publisher : Anand Prakashan
Jaisingpura Near, Dr. B.A.M.University
Aurangabad. (M.S)
Email : anandprakashan7@gmail.com
Phone : 0240-2400371, 9970148704

© : Author

Typeset at : Anand Computer. A.bad

Edition : 1st Edition

Date : 16 December 2021

ISBN : 978-93-91204-29-7

Cover Design : Aurora Design, Mumbai.

Printed At : Om Offset, Aurangabad

Price : 500 /-

Anora:
Respect for Research, Innovation and Literature

75
YEARS
OF
INNOVATIVE INDIA

नाविन्यपूर्ण भारताची ७५ वर्षे

Preface



Dear friends,

We are celebrating the year 2021-22 as the Nectar Anniversary of Indian Independence. In these 75 years, various developments have taken place in India, mainly political, social, literary, scientific and so on. Dear friends, truth should come out of research, society should gain knowledge from research, research should be important for achieving development of society. While doing research, the truth should come out from that research. And that is why research is so important for the development of any nation.

From the presented Edited book-'ANORA: Respect for Research, Innovation and Literature' in this edited book, on the Theme "75 Years of innovative India", various researchers have presented their various research articles on the occasion of the nectar anniversary of India's independence. I wish all these researchers the best of luck. The Editor-in-Chief of this book and all the members of the editorial board have chosen the theme and sub-theme very carefully. You all researchers did justice to the theme and sub-theme, which is really commendable. Once again, I congratulate you all on this and wish you all the best for your future research.

Dr. Narendra H. Kale

Chief Editors Message



I take this opportunity to extend my heartfelt congratulation and best wishes to the professors, research scholars and academicians' for contributing their research, articles in the edited book named 'ANORA: Respect for Research, Innovation and Literature'

in this edited book, on the Theme "75 Years of innovative India" We got 30 papers in Commerce, Management, Economics, Education, Humanities, Applied and Social Sciences which focus on the 75 Years of innovative India and subthemes. The edited book is published and structured to provide a broad range of information across the entire academia and other platforms.

I hope that the edited book ANORA will be useful for knowledge sharing and informative for all researchers. Wide range of topics covered under the umbrella of publication of this edited Book which will surely stimulate for dynamic knowledge sharing to add to the richness of research and literature and make this publication a memorable one.

I extremely thankful to the members of the Editorial Board of this book. I congratulate distinguished researchers for their Researches and Articles Management and Hon, Principal Professor D. B. Tanduljekar for their motivations. I am thankful of the Teaching Faculty of my College, Administrative Staff, My Students who have timely encouraged and guided me. You all are the backbone of my efforts. I am deeply indebted to them for their solid support to us for all times.

Best regards.

Dr. Indrajeet Ramdas Bhagat
Head and Assistant Professor in Department of Commerce (UG & PG)
Yeshwantrao Chavan College Ambajogai, Maharashtra.

Anora Ist :

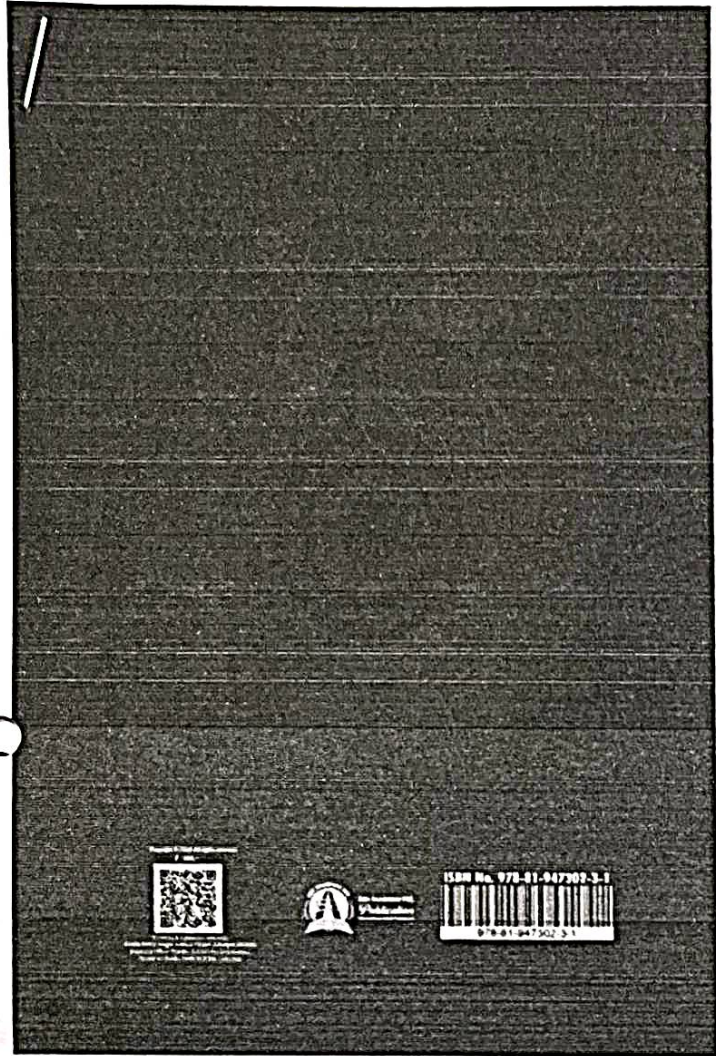
Respect for research, innovation and literature

-> INDEX <-

Sr.No	Title of Chapter / Author	Page. No
01.	Application of Data Mining Techniques in Analysing Agricultural Marketing Data. - Dr. T. Aasif Ahmed	09
02.	The Impact of E-commerce on Global Trends and Markets. - A. Zakiuddin Ahmed & Dr.P.Rizwan Ahmed	15
03.	Online Education During Covid - 19: Learning Rebooted Assist. - Prof. Mr. Rajesh Kumar	22
04.	Startup India - An Overview of Government Initiative for Sustainable Development. - Dr. Sayyad Mahejabin Dildar	28
05.	The Benefits of Adopting E-commerce. - Assist. Prof. Sukhbir Kaur	39
06.	A Study on Human Resource Development in India - An Evaluation - Abdul Kareem & Dr. G. Yoganandham	44
07.	Impact of Digital Marketing on Home Appliances in Vellore District, Tamil Nadu. - Dr. K. Gomathy & Mr. T. Ahemed	52
08.	Health Care Solid Wastes Management. - Dr. T. Aasif Ahmed & M. Megharajan	56
09.	Current Trend of Agricultural Productivity in India. - Prof.juber Ejaj Bagwan	62
10.	Market Strategies and their impact on Behaviour and Buying Decisions - Dr. Yogesh Laxmanrao Patinge	70
11.	Schemes Launched by the Indian Govt. For Development of Agriculture. - Dr. Mr.laxminarayan C.kurupatwar	75
12.	A Social and Political Policy for Embracing Growth and Change in India: With Special Reference to last two Decades. - Miss. Shraddha Tandale	81
13.	Micro Finance and Women Empowerment - Professor. Kailash Thombre	84

14. A Study of Current Issues and Remedies Facing Agribusiness. - Dr. Sandip Bhausahab Vanjari 89
15. A Study Of Government Policies and Programmes For Rural Development In India: With Special Reference To Last Decade. - Mr. Shrikant Tandale 96
16. Fourth Industrial Revolution in India. - Dr. Prakash Ratanlal Rodiya 102
17. Focusing on Recombinant DNA Technology for Human Betterment. - Miss Khadija Imran Sayad 108
18. Mahatma Gandhi's Ideology and Its Importance in the Context of Various Small-scale Industries in Indian Village. - Dr. Dinkar Tandale 116
19. Present Scenario of Open Education Resources (OER) in India And Challenges Ahead. - Dr. Hari Pandhari Wanganwar 121
20. India's Top Women Entrepreneurs. - Assit. Prof. Malatesh B Nagalapur 133
21. The Oppression and Cast Discrimination of Dalit Women in India: A Study of Autobiography of Babytai Kamble - Vasharani Chavan (Tandale) & Vaishali Sarrikar (Bhagat) 147
22. Use of mobile phones in english language learning: A Study - Mrs Mane Gitanjali Shivajirao 153
23. Agricultural Festivals Of Odisha. - Miss. Bandita Biswal 159
24. The Evolution Of Digital Education In India. - Dr Reeti Gupta 167
25. The Role Of Communication Skills In Higher Education. - Mr. Swapnil Mukundrao Rajpankhe 174
26. A Recapitulation of Tourist Capital Of Maharashtra: Aurangabad. - Dr.Rameshwar B. Jagdale 177
27. Unemployment In India: Causes And Remedies. - Dr. B.r. Dahe 173
28. आजादी के पश्चात दुरगतिवसी गरीब महिलाओं के उत्थान के लिए किये गये महिला एवं बाल विकास विभाग के प्रयत्न - डॉ. ललित कुमार दुबे 188
29. नारी मे व्यक्ती स्वतंत्रता की छटापटाहट - डॉ. घोडके अरविंद अंबादास 192





Innovative Business Practices in Digital Era

INNOVATIVE BUSINESS PRACTICES IN DIGITAL ERA




 Editor's
 Dr. Sourabh Jain, Prof. (Dr.) Pramod Sharma,
 Prof. (Dr.) Ashok Kumar Gupta,
 Prof. (Dr.) Jayesh Shah & Prof. Ajay Jain

Books CHAPTER 2

Content missing

Rationality of Buying Electronic Bikes v/s Petrol Bikes an Empirical Study”

Author : Dr. Lalit Kumar Dubey
Associate Professor
AIMSR Indore
09827266157

Abstract:

“Price of Petrol and diesel in India are increasing day by day. Prices of Petrol have crossed the rate of Rs. 100 per liter. The people who are laying under lower middle and middle class families it is not easy to maintain this too much expensive fuel for them. The reflection of this changing tendency of price of fuel like petrol and CNG is coming directly on demand of type of vehicles. The manufacturers of two wheelers are searching an option as production and selling of Electronic two wheelers instead of petrol operated vehicles. The study is conducted in Indore city selecting the 100 respondents randomly, how have recently purchased or they already have an electric operated two wheeler who have used petrol powered vehicles previously or still they are using their petrol vehicles. The overall assessment work is reflecting a result as in today’s scenario by Taking variables as actual cost of buying, cost of fuel, maintenance cost, resale value, Pick-up, Speed, Load bearing capacity, Durability, appearance are taken in to account “There is no significant difference between cost effectiveness of both kind of vehicles.” It can be concluded that overall cost for customer either Petrol powered or Electronic two wheeler is mostly same.

Keywords: Electronic and Petrol Powered tow wheelers, overall cost effectiveness, Price of fuel, Economic performance

Introduction: Consumer preferences It is a crucial matter now a days that prices of petrol and diesel are increasing day by day. Cost of vehicles is also running in the same patch. Continuing the situation of recession job opportunities are decreasing. Expansion of city is resulting the increasing transportation cost for people. Going from workplace to organisation and from there to home getting expensive as compared to previous years it was. So people are now in search of an economic means of transportation to reduce the cost of transportation in this situation of long run recession. As a remedy Electric powered vehicles are coming in the market. As per the specialist it is being said that electronic vehicles are cheaper in maintenance cost as compared to petrol vehicle. The research problem thus came in the light to analyse the comparative cost of both kinds of vehicles. Continue hike in the price of petrol is pushing the demand of two wheelers towards Electric powered two vehicles instead of petrol powered. So the market is witnessing the interest of customer toward buying of Electronic vehicles. The study is conducted to assess the difference between overall cost of both kinds of vehicles. Keeping in the mind a question that Electric powered two wheelers are really cost effective as compared to petrol powered or both are giving same result as overall expensiveness for such lower middle and middle class families.

① BOOK CHAPTER

**NEW CHALLENGES & OPPORTUNITIES
IN THE FIELD OF EDUCATION,
SCIENCE, MANAGEMENT, COMMERCE,
HUMANITIES, AGRICULTURE &
TECHNOLOGY IN THE CURRENT
SCENARIO**

(Book Chapter)



Editors

Dr. Sachin Sharma

Dr. Sourabh Jain



First Edition, 2021

Price: 495 Rs.

Size: A4

MHRD ISBN: 978-93-90975-23-5



Copyrights © 2021

All rights reserved.

Bibliographic Information

Title:

New Challenges & Opportunities in the field of Education, Science, Management, Commerce, Humanities, Agriculture & Technology in the Current Scenario (Book Chapter)

Editors:

Dr. Sachin Sharma, Dr. Sourabh Jain

Year: 2021



Printing & Publisher Address:

Black Pearl Publication,

Jaiprakash Ward, Singod Road Barjhai, Panagar, JBP, MP 483220

Regional Office: Flat No: A-1403 Prateek Fedora, Sector 61 Noida,
Delhi NCR Pin - 201301

E-mail id: publicationhelpboard@gmail.com

Acknowledgement



We would like to express my sincere gratitude to all the authors, researchers and reviewers, who provided their detail research and views for "New Challenges & Opportunities in the field of Education, Science, Management, Commerce, Humanities, Agriculture & Technology in the Current Scenario (Book Chapter)". We would like to thank my Teacher family, who supported and encouraged me in spite of all the time it took me away from them. This book could see the light of day due to generous support from the Black Pearl Publication. This volume is wholly a collective venture. This cause would not have been possible without the great efforts paid by all the authors and we are sure their valuable contributions increased the significance of the book. The readers and beneficiaries vary from academicians, professional engineers and scientists, to undergraduate and graduate students from all over the country.



TABLE OF CONTENTS

S. N.	NAME OF TITLE	P. NO.
1	THE POWER OF VITAMIN D IN COVID 19 MANAGEMENT: A PATH SIMPLIFIED Dr. NG Toshniwal, Dr. Abhay Chavan	01-09
2	COMMERCE EDUCATION: ISSUES AND CHALLENGES RELATED TO DIGITIZATION, SOCIAL MEDIA & SKILL BASED LEARNING IN PUNJAB Nidhi Sharma, Dr. Bhanupriya Khatri	11-26
3	NEUROMARKETING: CHALLENGES AND OPPORTUNITIES IN THE FIELD OF MARKETING Mrs. Deepa Kedar Rele, Dr. Unmesh Mandloi	27-36
4	EDUCATIONAL SCENARIO IN INDIA DURING PANDEMIC: CHALLENGES AND OPPORTUNITIES Chandni	37-44
5	A COMPARATIVE STUDY OF EFFECTIVENESS OF C.A.I. PROGRAMME AND CONVENTIONAL CLASSROOM TEACHING IN MATHEMATICS AT D.T.Ed. LEVEL Vinita Kothavale	45-54
6	AN ANALYTICAL STUDY ON CRM IN PUBLIC AND PRIVATE BANKS FOR CUSTOMER RETENTION Dr. Paritosh Awasthi	55-60
7	IMPACT OF ARTIFICIAL INTELLIGENCE IN TEACHING AND LEARNING PROCESS AT HIGHER EDUCATION Dr. Swarup Sarkar	61-75
8	"AN ANALYTICAL STUDY ON EFFECTIVENESS OF MARKETING TECHNIQUES IMPLEMENTED BY PRIVATE BANKS TO INCREASE SALES VOLUME OF INSURANCE PRODUCTS" (WITH SPECIAL REFERENCE OF INDUSIND BANK) Dr. Lalit Kumar Dubey	77-85

**"AN ANALYTICAL STUDY ON EFFECTIVENESS OF MARKETING
TECHNIQUES IMPLEMENTED BY PRIVATE BANKS TO INCREASE
SALES VOLUME OF INSURANCE PRODUCTS"
(WITH SPECIAL REFERENCE OF INDUSIND BANK)**

Dr. Lalit Kumar Dubey
Associate Professor , (AIMSR Indore)

Abstract- In today's scenario different kind of Marketing techniques are used by the Businessman to enhance sales volume of their product in the consumer market .Research shows here, A customer mainly ignores the advertisement, SMS , E-mail ,and many other marketing offers made by the companies to sale Insurance products in India that opinion of insurance customers and Managerial persons who are utilizing above said marketing techniques to enhance sales volume of Insurance products is not same. The analysis shows that, customer mainly influenced by Face to Face Interaction with them as compared to another techniques where as manager's opinion is that all the Direct Marketing Technique are useful equally. So finally it can be concluded that opinion of the customers may be deemed as more reliable as compare to Managerial persons.

Keywords: Marketing Techniques, Insurance Products, Consumer Perception.

1 RATIONALE OF THE STUDY

Study is related with the process of applying direct marketing techniques for selling of Insurance Products in the market and perception of customer toward these techniques.

1.1 Objectives of The Study:

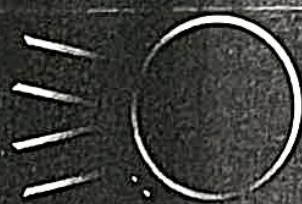
The main objectives behind the study are follows:

1. To study & assess the Impact of direct marketing techniques on sales volume of Insurance Product among customer in Barwani region.
2. To analyze and evaluate techniques used to attract customer toward their insurance product.
3. To recommend to Insurers to provide better after sale services to customer.

2 RESEARCH METHODOLOGY

Personal interview method has been applied for data collection from the respondents in Barwani with the help of an interview schedule and the use of structured questionnaire and Information from business analysts and customers of IndusInd Bank situated at District Barwani through direct conversation with them.60 customers of IndusInd Bank randomly have been selected and information regarding Impact of direct marketing

Book MAPTGR



Certification



RFI *Publication*

International Book Publications

This is Certify that

Dr./Mr./Ms./Mrs. **Dr. Deevya Agrawal** has published a Book
Chapter In,

Title of Book: **VIRTUAL TEACHING IN INDIA DURING LOCK DOWN**

Editors By: **Dr. Indira Dixit and Dr. Ankita Jain**

ISBN No: - "978-93-89522-41-9"

Year of Publication: **2020**

Book Chapter No. (If any): **02, pp. 11-18**

Title: **A STUDY ON JOURNEY OF EDUCATORS FROM "CHALK
DUSTER TO CHAIR AND DEVICE"**

Yamini Gowth

Publisher

RFI Publication



ISBN - "978-93-89522-41-9"

**A STUDY ON JOURNEY OF EDUCATORS FROM "CHALK
DUSTER TO CHAIR AND DEVICE"**

Dr. Deevya Agrawal

Assistant Professor in Acropolis Institute of Management &
Research

Abstract - The intended purpose behind this chapter is to study the journey of transformation from face to face teaching method to online teaching method. The study has been done on the educators how this sudden transformation has affected their teaching practice. Also the chapter seeks to find the challenges which the educators faced due to this sudden change. The chapter employs qualitative approach to study the whole journey of transformation. Also as educators how challenges were converted into opportunities are also discussed through this chapter.

Keywords: COVID, online education, educators, challenges.

1 INTRODUCTION

Outbreak of COVID 19 shattered the whole world. It bound every sector for transformation. One of the sectors which was affected a lot due to this sudden pandemic is the education system. It was the challenge before the educators to shape the future of the nation without compromising their health. It was just like making a pot without touching it. But as it is said "Where there is a will, there is a way." Educators found the solution and start imparting knowledge through online. Although it was not so easy to do this transformation. In the initial phase educators were not much acquaint with the technology used in the online teaching. Also many of them do not have their personal laptops or android mobiles. Also they found it quit difficult to deal with the subject without chalk and duster. Especially the subject having calculations and also the subject which needs physical testing was quite difficult in online mode. But within few days educators get acquaint with the technology. They found that they can teach comfortably even without "Chalk & Duster on their Chair using a Device.

ISBN: 978-1-7338929-3-3

PROCEEDINGS
OF
AVID-ARC 2020
XIV INTERNATIONAL CONFERENCE ON WOMEN
LEADERSHIP AND EMPOWERMENT
23rd July, – 2020
MALDIVES

EVENT ORGANISER



AVID COLLEGE
GATEWAY TO  LIFELONG LEARNING

FACILITATED AND PUBLISHED



 **ACADEMIC RESEARCH CONFERENCES**

A Study of Social Innovation with Special Reference to Women Entrepreneur in India

Dr. Shahina Qureshi
Assistant Professor

Acropolis Institute of Management Studies and Research
shahinaqureshi@gmail.com

Abstract

Entrepreneurship has been an attractive topic for scholars over several decades. However, social entrepreneurship has remained relatively understudied in scale and scope. More specifically, the aspect of women in entrepreneurship is mostly untouched. Therefore, this research aims to examine the role of women in social entrepreneurship in an emerging economy such as India. This research provides literature on definitions of social entrepreneurship and the difference between social entrepreneurship and business entrepreneurship by taking the historical development of entrepreneurship into account. Secondary data of four difference-maker women entrepreneurs are demonstrated through analyzing videos, newspapers, websites, and interviews of the entrepreneurs. Four different life stories of social entrepreneurs suggest that Indian women social entrepreneurs face many challenges from their environment. The life stories indicate that they touched many lives by improving their social status as well as economic conditions.

INTRODUCTION

Social innovation takes birth in complex systems and these systems have complex or "wicked" problems, similar to the sorts of issues the world is attempting to handle right now, for example, environmental change, HIV Aids and other pandemics, poverty and inequality. A complex system has many variables or elements such as different types of individuals, material and rules and those elements of the system are interacting with one other so much, resultant the complexity increases exponentially. So the basic task of complexity is about bringing yourself into the system, engaging with it, dwelling with it and innovating in yourself as you innovate that system that you are operating in. You cannot check out the entire system but you may observe more than one piece of it. The more you begin to usher in different parts of the systems, the more you are likely to connect the dots which were not connected before.

One of the characteristics of very innovative organizations and people is that they have the ability to see the potential resources where other people do not, and they can bring those resources to create new innovative solutions. There is transformative power in shifting from watching needs, gaps, and what's wrong, to appreciating strengths, resources and what's best possible. A strength-based mindset and an appreciative approach can discover hidden or underused resources. These resources could be people, knowledge and expertise, time, and physical spaces. As soon as you begin seeing resources all around you, not only are you able to move forward but you become energized and hopeful, and imaginative things start to happen. You'll find that you simply could be a lot richer than you think that in terms of what you have got to start building your own social innovation with.

Getting out of comfort zone helps you see the resources which other people are unable to see. Basic composition of the world of social innovation is made up

Anita Mahajan

Data Structures

For B.Sc, 2nd Year Computer Science
BCA, PGDCA and Other Professional Courses

Authors

Anita Mahajan

ME CSE(SE)

Acropolis Institute of Technology and Research,
Indore (M.P.)

Ajay Varma

MCA, M.Tech (CSE)

Christian Eminent College,
Indore (M.P.)



GANGA PUBLISHERS & DISTRIBUTORS

Khajuri Bazar, Indore (M.P.)

Publisher

GANGA PUBLISHERS & DISTRIBUTORS

43 Manik Chowk Behind Dave Coaching Class
Near Khajuri Bazar INDORE - 452 002 (M.P.)

☎ 0731-2452228, Mobile : 70004-32007, 79876-21811

E-mail : gangapublishersdistributors@gmail.com

©: All rights reserved

ISBN : 978-S1-942918-1-7

Edition : 2020

₹ 240/-

Type Setting

SANIYA GRAPHICS

29, Iqbal Colony Square,

Aniliya Paltan Main Road, Indore

Note : No part of this publication may be reproduced, stored in a retrieval or by any means electronic, mechanical, photocopying, scanning, web or otherwise without the written permission of publisher excepting those citations appearing as brief quotations for the purpose of academic review, criticism or as input for further research. Ganga publishers & distributors has obtained the information in this book from the sources believed to be reliable and true. However Ganga publishers & distributors Editors or Authors or illustrators don't take any responsibility for the absolute accuracy of translation, any information published, and the damages or loss suffered thereupon. Any disputes subject to Indore (M.P.) Jurisdiction only.

PREFACE

Today's world offers new opportunities for every person to learn. The aim of this book is to simplify the concepts and make a difference in the wide world of computer. Every book has its own characteristic and a unique mind involved in its origin and that is why every book is different even if written on the same topic.

This book guides the students to excel on academic levels and to make the subject easy for them. This book aims to cater to beginners who look to learning data structures through C. While teaching and data structures, we felt the need for a balanced book on the subject. In fact, this is the main impetus for writing such a book. The book is written in both the languages to reach maximum number of students possible and guide them. Here, we have tried to reflect oral teaching styles to written ones with examples when and where required.

We do not assume any prior knowledge of the subject. The book starts with basic concepts followed by programming and real world problems. Suitable diagrams are also given for making the understanding better. All the programs are tested. At the end of every unit, important questions are listed for better preparation of the subject.

ACKNOWLEDGEMENT

We thank the Lord to give us the intellect to complete the book justifying our aim. Many people have played important role directly or indirectly in completion of this book and we would like to thank all of them for their support.

The person we become is the hard work of the most important people of our life who guide us through right and wrong. We thank our parents to raise us up to this level and make us a better human being. We have no words for the immense support our children, Prisha and Kashvi, provided because of which we could find time enough to be able to write this book.

We would like to thank *Ganga Publishers & Distributors* to trust us with something students are going to rely on.

We would like to thank every student we have taught till now, to make us better teachers. We are very grateful to every person who was with us on our journey from being children with dreams in their eyes to become authors.

Anita Mahajan

Ajay Varma

Department of Higher Education Government of Madhya Pradesh
Yearly Syllabus for Undergraduates
As recommended by Central Board of Studies of Computer Science and Approved by H E the
Governor of M.P.
Session 2017-18.

B.Sc. II YEAR COMPUTER SCIENCE
Second Paper : DATA STRUCTURES

Max Marks : 50

UNIT-I

Concept of data structure and analysis of algorithm, abstract data structure, introduction to stack and primitive operations on stack, stack as an abstract data type, stack application: infix, prefix, postfix and recursion, introduction to queues, primitive operation on queues, circular queue, dequeues, priority queue and applications of queue.

UNIT-II

Introduction to linked list, basic operations on linked list, stacks and queues using linked list, doubly linked list, circular linked list, applications of linked list.

UNIT-III

Trees-basic terminology ,binary trees, tree representations as array and linked list, basic operations on binary tree, traversal of binary trees:- inorder, preorder, postorder. Applications of binary tree, threaded binary tree, AVL tree, binary tree representations of trees.

UNIT-IV

Sequential search, binary search, insertion sort, selection sort, quick sort, bubble sort, heap sort, comparison of sorting methods.

UNIT-V

Hash Table, Collision resolution technique, Introduction to graphs, Definition, Terminology, Directed, Undirected and Weighted Graph, Representation of Graph, Graph Traversal-Depth first, Breadth first search, Spanning tree, Minimum Spanning tree, Shortest path algorithm.