

**3.3.2.1 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years (2018 to 2023)**

Sr.No	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Page No of proofs
1	Dr. Mona Kejariwal.	Book:Basics of Nano sciences	NA	NA	NA	National	2022_2023	ISBN-978-93-93473-14-1	R.D National College	Lenin Media Private Limited, Delhi, India..	1_2
2	Ms. Namrata Ajwani	Book:Digital Logic and applications	NA	NA	NA	National	2022_2023	ISBN 978-93-5451-778-5	R.D. National College	Nirali Prakashan	3_4
3	Ms. Jyoti Mirani	Book:Digital Logic and applications	NA	NA	NA	National	2022_2023	ISBN 978-93-5451-778-5	R.D. National College	Nirali Prakashan	5_6
4	Dr.Meghna Chotaliya	Book: Corporate Financial Accounting	NA	NA	NA	National	2022_2023	978-93-5576-454-6	R.D. National College	Sheth Publishers	7

5	Dr.Meghna Chotaliya	Book:Cost & Management Accounting	NA	NA	NA	National	2022_2023	978-93-5576-460-7	R.D. National College	Sheth Publishers	8
6	Ms Prerna Jatav(Editor)	Book: Outweighted by Outcasts	NA	NA	NA	National	2022_2023	ISBN: 979-888629631-0	R.D. National College	Edit Academic	9_10
7	Ms. Namrata Ajwani	Book:Fundamentals of Micro Processor and Microcontrollers	NA	NA	NA	National	2022_2023	ISBN 978-93-5451-992-5	R.D. National College	Nirali Prakashan	11_12
8	Ms. Jyoti Mirani	Book:Fundamentals of Micro Processor and Microcontrollers	NA	NA	NA	National	2022_2023	ISBN 978-93-5451-992-5	R.D. National College	Nirali Prakashan	13_14
9	Dr.Roopa Gokhale Shahade	Book:Importance and role of Libraries in our society	NA	NA	NA	National	2022_2023	ISBN 978-81-962463-0-3	R.D. National College	Dentmed Research & Journal Pvt,Ltd, Mumbai	15_16

10	Ms.Krupa Shah	Book: Financial Management	NA	NA	NA	National	2022_2023	ISBN:978-93-5725-152-5	R.D. National College	Sheth Publishers Pvt. Ltd	17_18
11	Mr.Pravin Panigrahi	Book:Auditing(Introduction and Planning-I)	NA	NA	NA	National	2022_2023	ISBN:978-93-5725-147-1	R.D. National College	Sheth Publishers Pvt. Ltd	19_21
12	Dr. Mona Kejariwal.	Chapter: Nanotubes,Book:Basics of Nano sciences .	NA	NA	NA	National	2022_2023	ISBN-978-93-93473-14-1	R.D National College	Lenin Media Private Limited, Delhi, India..	22_23
13	Dr. Mona Kejariwal.	Chapter:Nanoparticle : A tool for Covid-19 Mangment and Control ,Book:Basics of Nano science	NA	NA	NA	National	2022_2023	ISBN-978-93-93473-14-1	R.D National College	Lenin Media Private Limited, Delhi, India..	24_25
14	Dr. Shashwati V. Pradhan	Chapter:Nanomaterials an Introduction,Book: Basics of Nano sciences	NA	NA	NA	National	2022_2023	ISBN-978-93-93473-14-1	R.D National College	Lenin Media Private Limited	26_27

15	Dr. Nilesh Patil	Chapter:Nanoparticles: Applications,Book: Basics of Nano sciences	NA	NA	NA	National	2022_2023	ISBN-978-93-93473-14-1	R.D National College	Lenin Media Private Limited	28_29
16	Dr. Meghna Basu Thakur	Chapter: Effects of Internalised Homophobia And PTSD Symptoms On The Mental Health Of The LGBTQ+ Community,Book:Innovative Approaches to Higher Education.	NA	NA	NA	International	2022_2023	978-93-91146-50-4	R.D National College	AABS Publishing House	30_32
17	Dr. Meghna Basu Thakur	Chapter: Effects Of Mother-Daughter Relationship On Body Satisfaction During Covid-19 Pandemic.Book:Innovative Approaches to Higher Education.	NA	NA	NA	International	2022_2023	978-93-91146-50-4	R.D National College	AABS Publishing House	33_35
18	Dr. Meghna Basu Thakur	Chapter:The Impact of Performance Appraisal In Male & Female On Organizational Commitment During Covid 19,Book:Innovative Approaches to Higher Education.	NA	NA	NA	International	2022_2023	978-93-91146-50-4	R.D National College	AABS Publishing House	36_38
19	Dr. Laxman Jathar(L V Jathar)	Chapter: COMPARATIVE STUDY OF NANOPOROUS THIN FILM GLASS SAMPLES PREPARED BY SOL-GEL TECHNOLOGY USING OPTICAL, STRUCTURAL, MECHANICAL AND THERMAL PROPERTIES ,Book:Thin Film Technology and it's Novelties in Material Science	NA	NA	NA	National	2022_2023	(ISBN: 978-93-91768-93-5)	R.D National College	Bhumi Publication	39_42

20	Dr.Seema Shinde	Chapter: Charasteization of Single Cystal s (CSI : Tl ) Grown in Intarnational Coated Silica Crucibl Book:MATERIALS SCIENCE : Charaterzation and Application First Edition August 2022	NA	NA	NA	National	2022_2023	978-81-957290-1-2	R.D. National College	Kritinjal Acedemic solutions Private Solutions	43_45
21	Dr.Ravi Shukla	Chapter:Farmers as Subaltern and Agarians Reforms at crossroad(Book: Revisiting subaltern studies).	NA	NA	NA	National	2022_2023	ISBN:978-93-92362-06-4	R.D. National College	The Unique Foundation	46_47
22	Mr. Vipul Saluja	Chapter:Present NLP Status for Dogri Language,Book: ICT with Intelligent Applications( <a href="https://doi.org/10.1007/978-981-19-3571-8_69">https://doi.org/10.1007/978-981-19-3571-8_69</a> )	NA	NA	NA	International	2022_2023	ISBN:Print: 978-981-19-3570-1. ISBN:Online:978-981-19-3571-8	R.D. National College	Springer,Singapore	48_52
23	Dr. Mona Kejariwal.	Chapter:Jelly Ear: (Auricularia auricula-judae), Book: Mushrooms Nutraceuticals and Functional Foods	NA	NA	NA	International	2022_2023	( ISBN13): 9781032344539	R.D National College	CRC PRESS	53_55
24	Dr. Mona Kejariwal.	Chapter:Case Studies on Applications of Green Nanotechnology: Book:Innovations in Green Nanoscience and Nanotechnology, In: Synthesis, Characterization, and Applications.	NA	NA	NA	International	2022_2023	ISBN 9781032333281	R.D National College	CRC PRESS	56_59

25	Dr.Nilesh S Patil	Chapter:Carbon Quantum Dots based Magnetic Nanoparticles for Bioimaging(Book: Magnetic Quantum dots for bioimaging).	NA	NA	NA	International	2022_2023	(ISBN13)978-1032321462,( ISBN 10)1032321466	R.D. National College	CRC Press, Taylor and Francis, NEW YORK	60_61
26	Ms Prerna Jatav	Chap: Existentialism Staged: A comparative study between war literature and Pandemic literature.Book:Literature Bridge	NA	NA	NA	National	2022_2023	000-000046540-5	R.D. National College	Edit Academic Publication	62_64
27	Dr.Laxman Jathar	Chapter:Characterization of Gel and Thin Film Prepared by Sol-Gel Technology and its Applications as a Fire Retardant Gel and Dye Laser Material. Book: Thin Films and its Applications.	NA	NA	NA	National	2022_2023	ISBN: 978-81-19492-02-2	R.D. National College	Mahi Publication	65_66
28	Dr. Seema Shinde	Chapter: Factors Affecting Structure of Film. Book: Thin Films and its Applications	NA	NA	NA	National	2022_2023	ISBN: 978-81-19492-02-2	R.D. National College	Mahi Publication	67_68
29	Dr.Neha Jagtiani	NA	Importance of Academic Libraries in Digital Era	Research Journey International E-Research journal	One day online International Multidisciplinary conference	International	2022_2023	E-ISSN : 2348-7143	R.D .National college	Swatidhan International Publication	69_70

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31	Dr. Nikisha Kukreja	NA	Resilience, Recovery & Reforms : Navigating the Journey of the Indian Financial Markets.	Compendium of Research Papers 2023. Theme: Financial Markets.	XXXI International Economic Convention	International	2022_2023	ISBN: 978-93-93789-86-0	R.D .National college	Kishinchand Chellaram College HSNC University, Mumbai	73_75
32	Dr Neha Jagtiani(Editor)	Book: Pedagogical Approaches In Commerce(Editor)	NA	NA	NA	National	2021_2022	ISBN _ 978 _ 81 _ 7056 _ 673 _ 1	R.D National College	Panchasheel Prakashan	76
33	Dr Mona Kejariwal	Book: Advanced pharmacognosy-II (M.Pharm) Sem-II (as per latest syllabi).	NA	NA	NA	National	2021_2022	97815-43344-72-1.	R.D National College	S VIKAS AND COMPANY (PV).	77_78
34	Dr Mona Kejariwal	Book: Advanced pharmacognosy-I (M.Pharm) Sem-I (as per latest syllabi)	NA	NA	NA	National	2021_2022	97815-43344-55-4.	R.D National College	S VIKAS AND COMPANY (PV).	79_80

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36	Ms. Kranti.Doibale	Book:Media ,Art and Literary studies	NA	NA	NA	National	2021_2022	ISBN 978-1-68538-467-8	R.D National college	Edit Academic	83_84
37	Dr Neha Jagtiani(Editor )	chapter:Modern Pedagogical methods in commerce:Strategic Teaching approaches(Book:Pedagogical Approaches In Commerce)	NA	NA	NA	National	2021_2022	ISBN _ 978 _ 81 _ 7056 _ 673 _ 1	R.D National College	Panchasheel Prakashan	85_87
38	Dr Kiran D. Sawant	Chapter: Socially Marginalized- 'City Within A City'(Book: SUBALTERN MOVEMENTS IN INDIA)	NA	NA	NA	National	2021_2022	ISBN 978-81-948850-0-9	R.D National College	Akhand Publication	88_89
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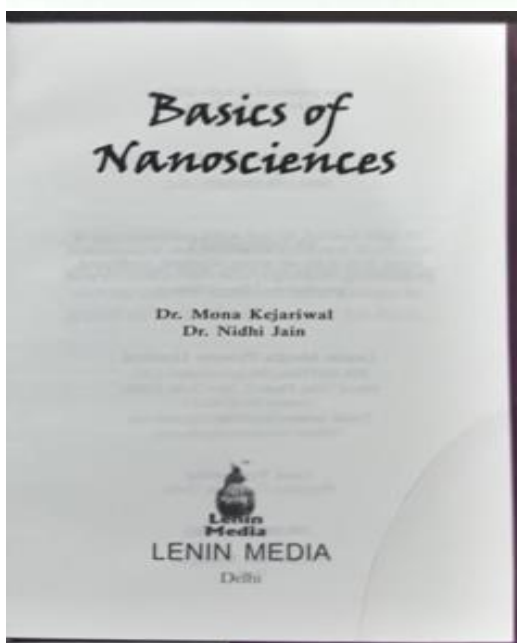
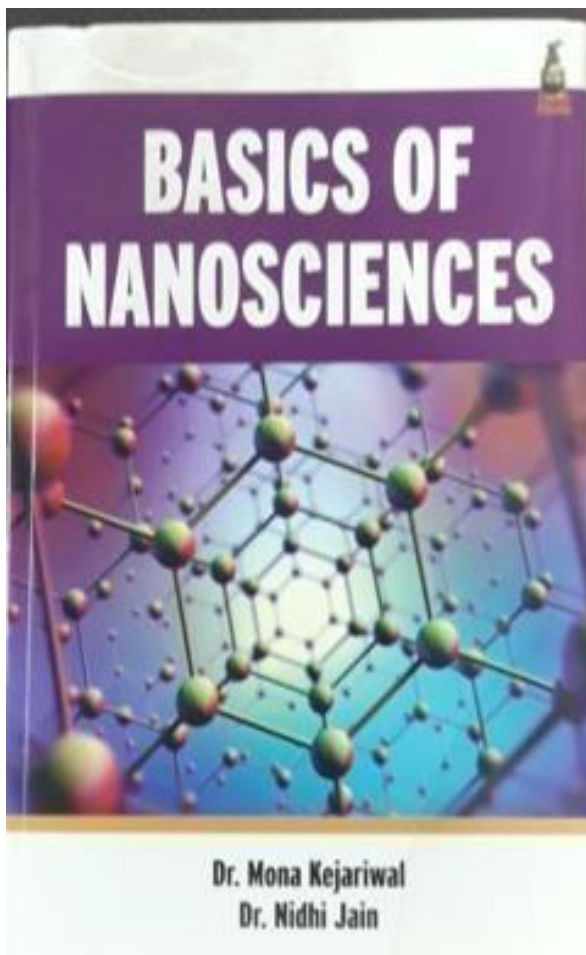
60	Ms.Kranti M Dobale	Chapter:The Panoptic society in George Orwells Nineteen Eighty four(pg 59-68)(Book:Conflux,A Reflection on some literary Issues	NA	NA	NA	National	2018_2019	ISBN: 978-81-2028782-2. 2018	R.D National college	Karmashree Hiteswar Saikia college,Guwahati-22,Assam	139_140
61	Dr. Neha Jagtiani	NA	OLA CABS:Start up by 2 IIT Bombay Graduates	National conference on Start-ups:Innovation To Reality(From Ideas to Markets)	Envisage 2018	National	2018_2019	ISSN NO:2321-7456	R.D National college	NA	141_142
62	Ms Lakshmi lyer	NA	Profile of a start up enterprise in organic food	National conference on Start-ups:Innovation To Reality(From Ideas to Markets)	Envisage 2018	National	2018_2019	ISSN NO:2321-7456	R.D National college	NA	143_144
63	Dr.Mona Kejriwal	NA	water potability testing case study of Mumbai region	National conference on Start-ups:Innovation To Reality(From Ideas to Markets)	Envisage 2018	National	2018_2019	ISSN NO:2321-7456	R.D National college	NA	145_146
64	Mr. Chetan Patil:	NA	water potability testing case study of Mumbai region	National conference on Start-ups:Innovation To Reality(From Ideas to Markets)	Envisage 2018	National	2018_2019	ISSN NO:2321-7456	R.D National college	NA	147_148

65	Mrs Krupa Brijesh Shah	NA	Study of Mom-preneurial start-ups	National conference on Start-ups:Innovation To Reality(From Ideas to Markets)	Envisage 2018	National	2018_2019	ISSN NO:2321-7456	R.D National college	NA	149_150
66	Dr.Mukesh Kanojia	NA	E-Technology as an Aid for start ups	National conference on Start-ups:Innovation To Reality(From Ideas to Markets)	Envisage 2018	National	2018_2019	ISSN NO:2321-7456	R.D National college	NA	151_153
67	Ms Nikisha Kukreja	NA	The Initiation of Electric cars in India-start up India	National conference on Start-ups:Innovation To Reality(From Ideas to Markets)	Envisage 2018	National	2018_2019	ISSN NO:2321-7456	R.D National college	NA	154_156
68	Ms Manpreet Wadhwa	NA	A Momolicious start up-"WOW MOMOS"	National conference on Start-ups:Innovation To Reality(From Ideas to Markets)	Envisage 2018	National	2018_2019	ISSN NO:2321-7456	R.D National college	NA	157_159
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70	Ms Prerna Jathav	NA	Rupturing value systems under the Garb of Globalisation through symbols in Preethi Nair's 100 shades of white	International seminar on Literature Globalization.	International Journal of Innovative Knowledge concept	International	2018_2019	ISSN: 2454-2415	R.D National college	Sonhira	163_167
71	Ms. Kranti.Doibale	NA	Rupturing value systems under the Garb of Globalisation through symbols in Preethi Nair's 100 shades of white	International seminar on Literature Globalization.	International Journal of Innovative Knowledge concept	International	2018_2019	ISSN: 2454-2415	R.D National college	Sonhira	168_172

**Book:**

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This book has been specifically designed as a reference book for graduate and post-graduate students to understand the basic concepts of Nanotechnology (2D Nanotechnology ("nanotech")) in science deals in atomic, molecular, and supermolecular scale. The first widespread definition of nanotechnology refers to the molecular goal of tracking atoms and molecules into macromolecular products, now called molecular nanotechnology. Last few decades have witnessed advancement in research and technology related to this field. It is therefore, essential to see the global term "nanotechnology" as well as "nanoscale technologies" to refer to the broad range of research and applications whose common trait is size. This book will contribute to students' interest in this important subject in young minds who are looking forward to contribute in this arena.



**Dr. Meena Kojerwal** is Ph.D., F301 and Associate Professor in RD & SH National College, Bandra, Mumbai, India. She is the recipient of Green Crusader Award. Authored three books in medicinal botany for Post graduate M.Pharm students in Pharmacognosy and published three papers recently. She has been actively guiding Ph.D. students in the field of Antioxidant, phytochemical profiling of Medicinal plants, Antimicrobial activity, plant genetics, Model Plant Systems. She is a consultant for private Herbal cosmetics company for formulation development and testing and published twenty research articles in peer reviewed reputed journals in the field of phytochemicals, Waste Water treatment, Plant Model systems, Physiology, Bioactive Nano-materials and Antioxidants. To augment undergraduate creative thinking, experimental skills and strengthen the research infrastructure in college at undergraduate and postgraduate level working diligently as Coordinator of DGT STAR College Scheme and Principal Investigator of DGT FIST PG level grant. She has given lectures at International and National Conferences, presented papers and arranged International and National Conferences, Colloquium and Symposium as an organizing Secretary. She is working as President of MIBRD's Institute Innovation Council (IIC), NIKI/ Nodal Officer, NISP Coordinator, handling Mentor-Mentee and KAPILA scheme at her institute.



**Dr. Nibhi Jale** is working as an Assistant Professor in Engineering Science Department of Bharati Vidyapeeth's College of Engineering, Lavale, Pune. She holds Ph.D. in Chemistry. She has 21 years of extensive experience working in industries, academia and research. Her areas of interest includes Environmental Science, Nano-materials and Polymer Science. She has 33 Journal Publications, 18 Patents, four Copyrights, two books and two Book Chapters to her credit. She is working as Convener of MIBRD's Institute Innovation Council (IIC), ARBA Nodal Officer, NISP Coordinator, Head of E-Cell, Secretary of Research & Development and IPR Cell, at her institution. She had received many awards and have been invited as guest speaker at several organizations for delivering lectures.



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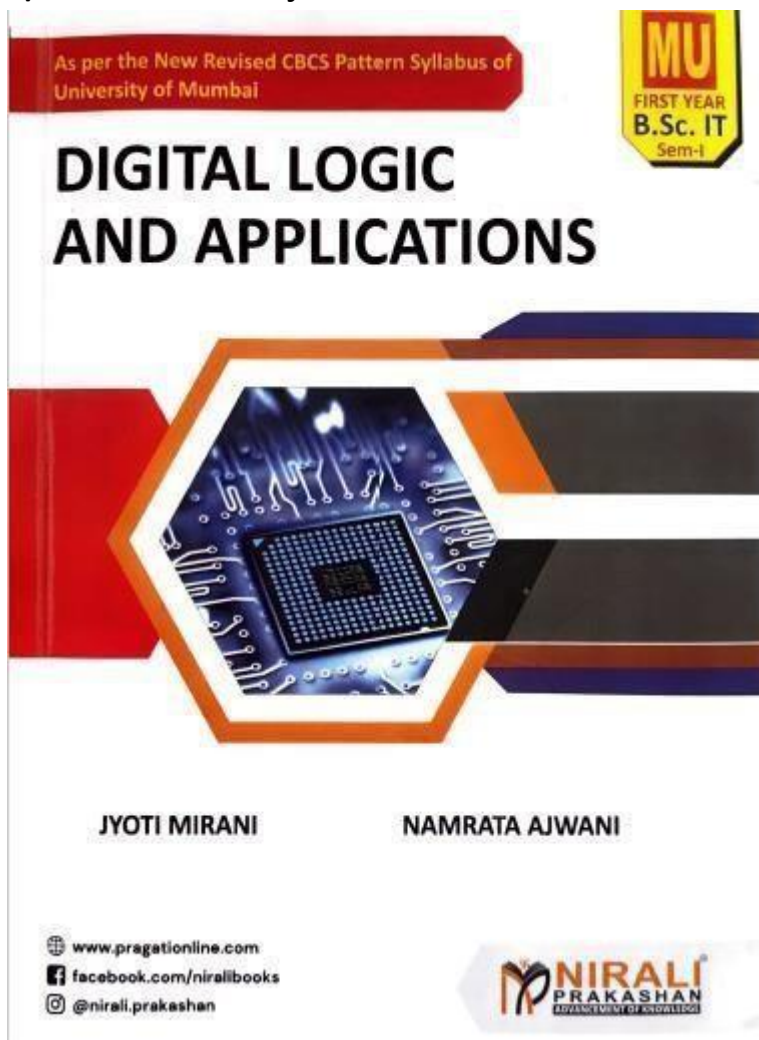
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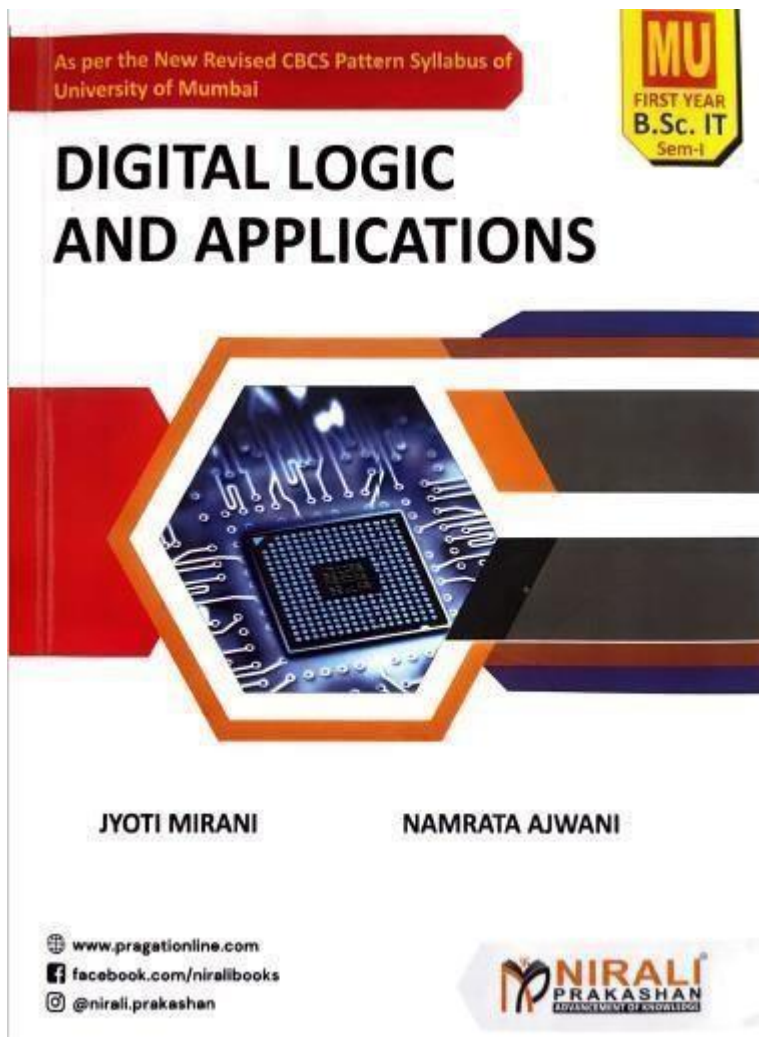


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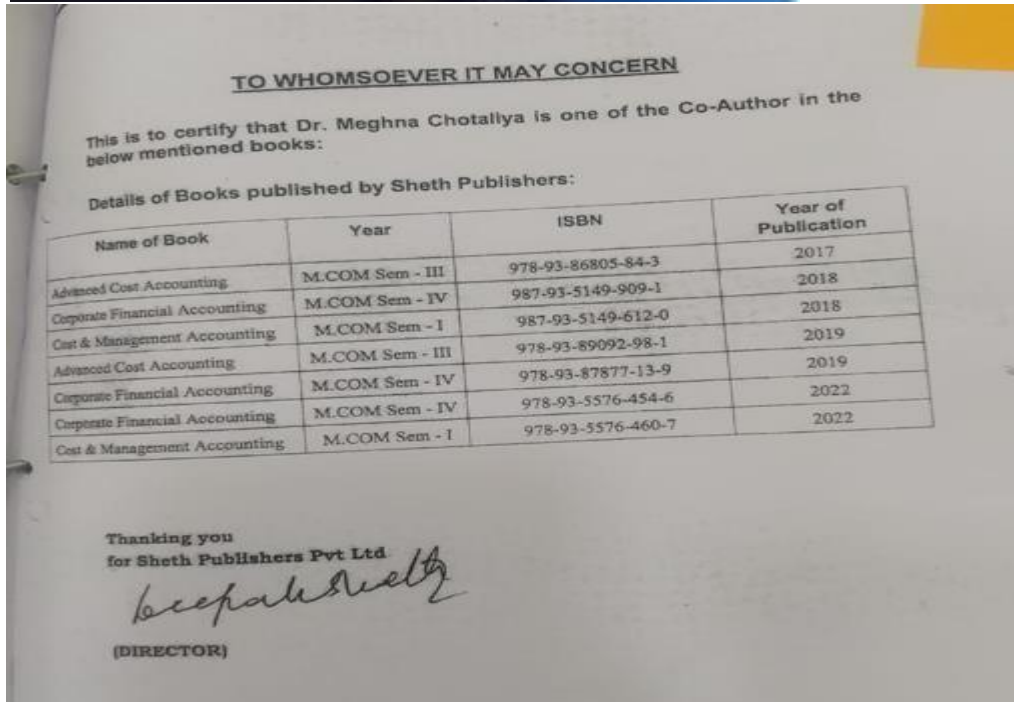
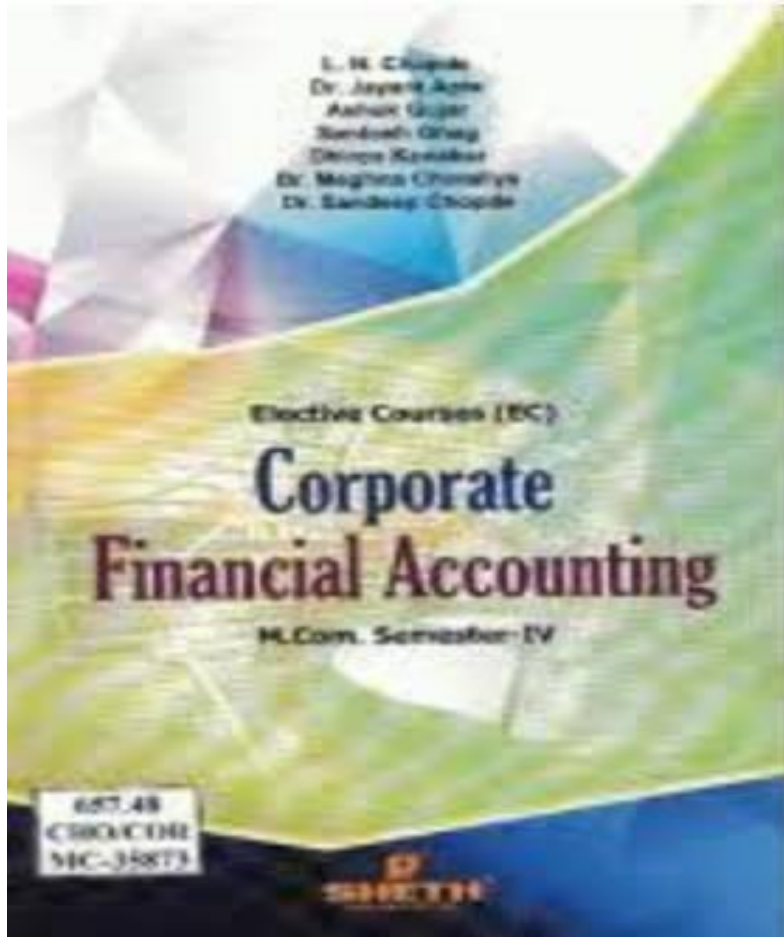
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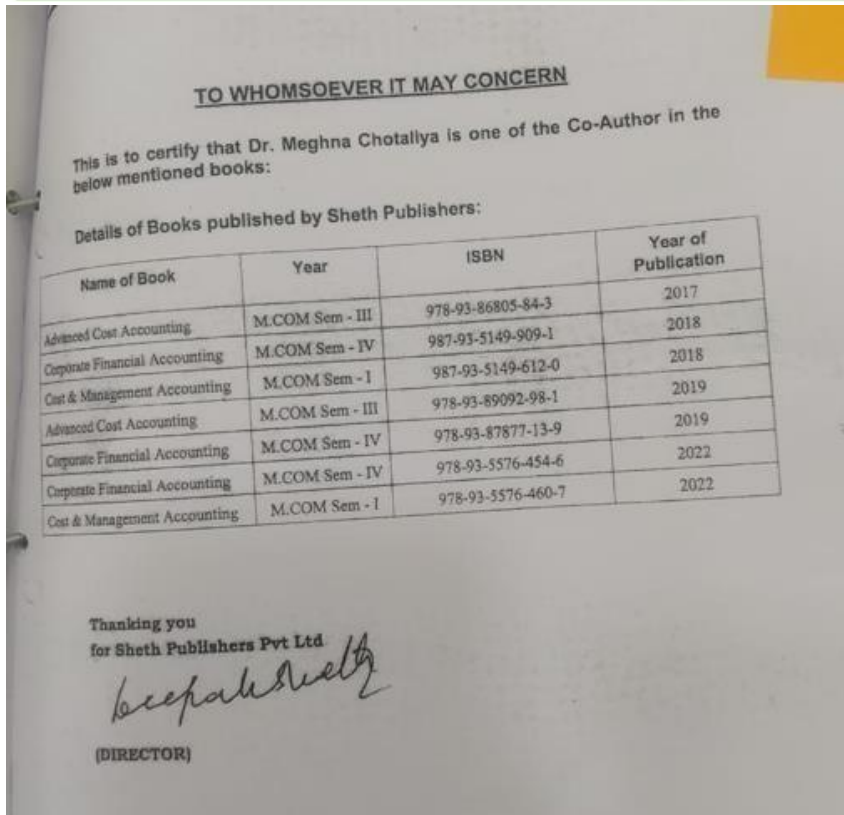
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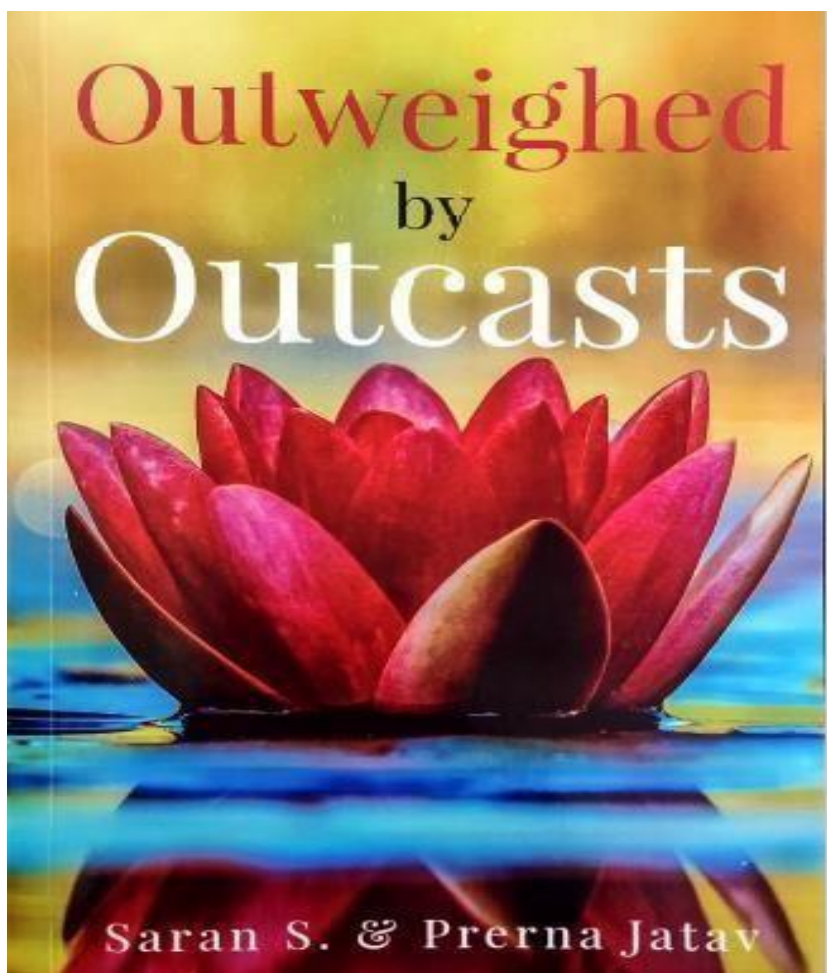
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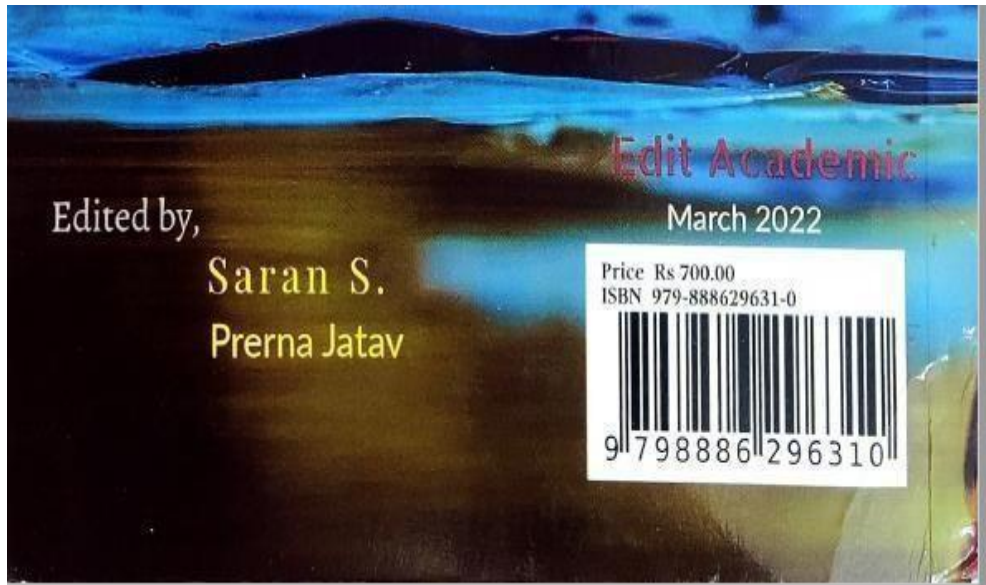


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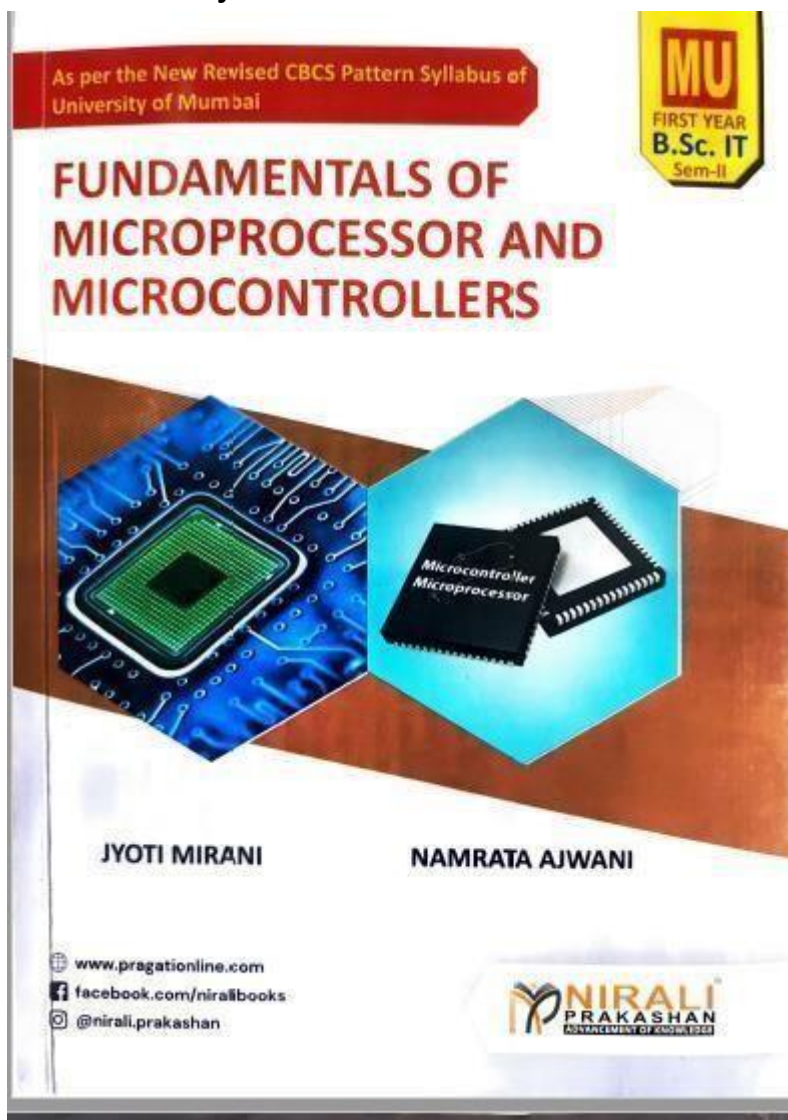
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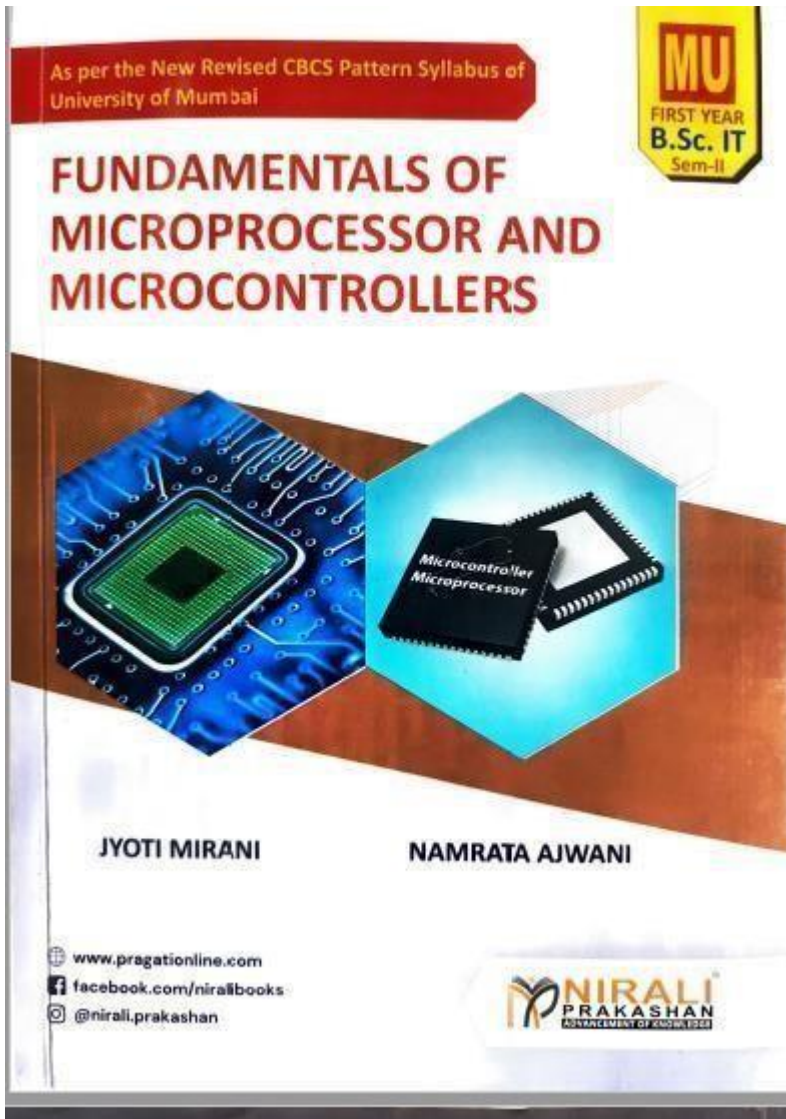


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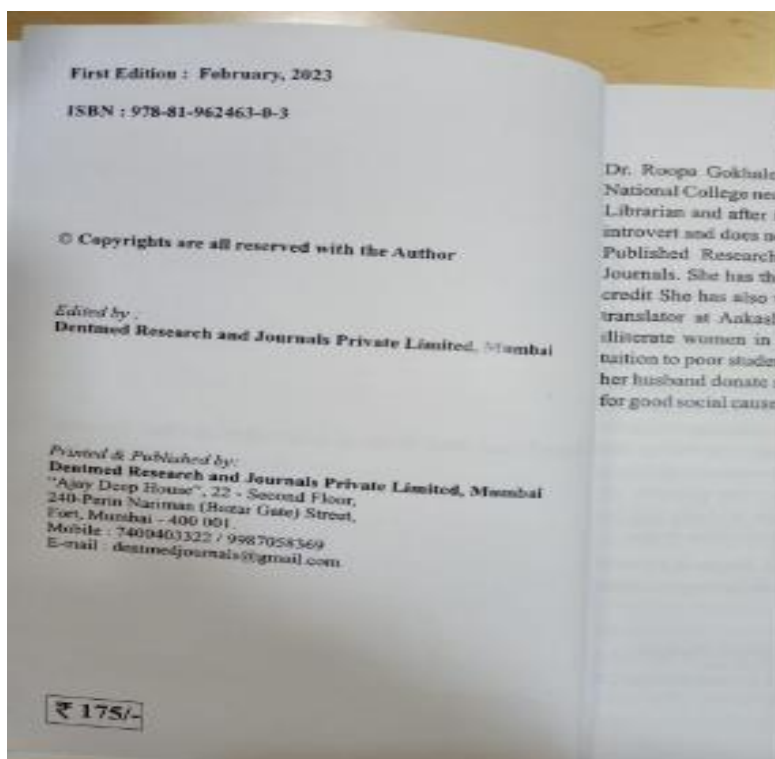
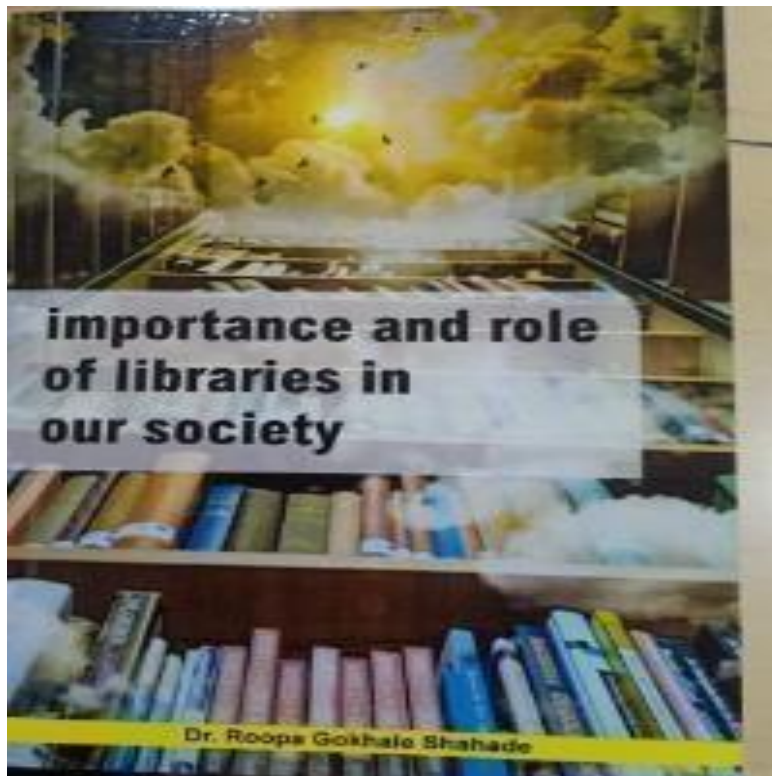


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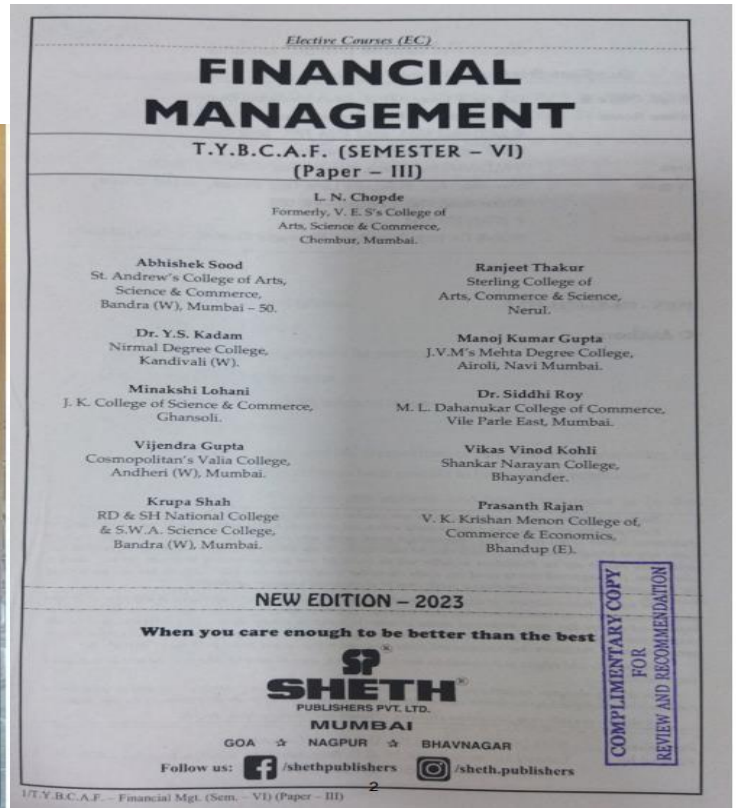
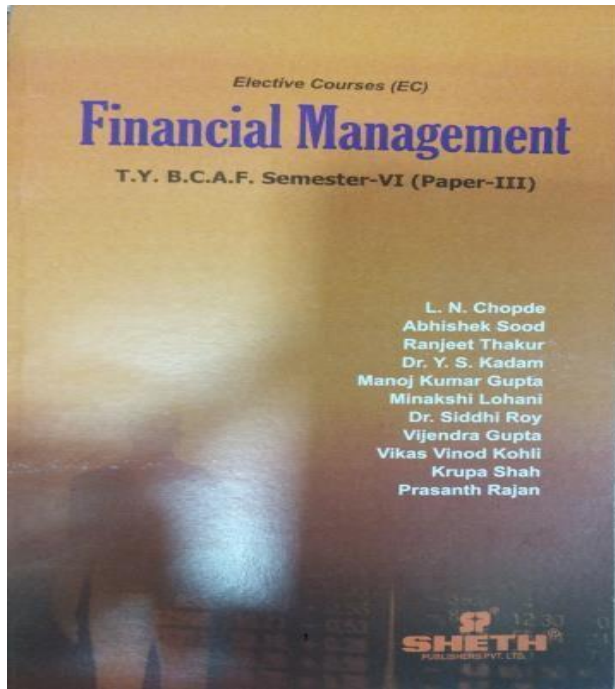
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**SYLLABUS**

*Elective Courses (EC)*  
**T.Y.B.C.A.F. (Semester - VI)**  
**FINANCIAL MANAGEMENT (PAPER - III)**  
**Modules at a Glance**

Sr. No.	Modules	No. of Lectures
1.	Business Valuation	05
2.	Mergers and Acquisitions	15
3.	Corporate Restructuring and Takeovers	15
4.	Lease and Hire Purchase Financing	15
5.	Working Capital financing	10
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
1.	<b>Business Valuation</b> <b>Conceptual Framework of Valuation</b> : Book Value, Market Value, Economic Value, Liquidation Value, Replacement Value, Salvage Value, Value of Goodwill and Fair Value. <b>Approaches of Valuation</b> : Assets Based Approach to Valuation, Earnings Based Approach to Valuation, Earnings Measure on Cash Flow Basis, Market Value Added Approach and Economic Value Added.
2.	<b>Mergers and Acquisitions</b> <b>Introduction</b> : Basic modes of acquiring another firm, Synergy effects, Difference between Merger and Takeover, Advantages of Mergers and Acquisitions, Benefits of Merger for Acquiring firm, Reasons of companies to offer themselves for sale, Reasons for failure of Mergers and Reverse Merger. <b>Commonly Used Bases for determining the Exchange Ratio</b> : EPS, MPS, Book value and Combination of Measures and Evaluation of Mergers. (Practical Problems)
3.	<b>Corporate Restructuring and Takeovers</b> <b>Introduction</b> : Meaning, Need and Importance, Forms of Restructuring, Advantages and Disadvantages. <b>Takeovers</b> : Meaning, SEBI Guidelines, Anti-takeover defences and Asset and Liability Restructuring. (Practical Problems)
4.	<b>Lease and Hire Purchase Financing</b> <b>Introduction</b> : Meaning and Types of Leases, Rationale, Mechanics, Operating Leases, Leasing as Financing Decisions, Calculation of Cash flows of a finance lease. <b>Hire Purchase</b> : Meaning, Need and Importance, Calculation of Hire Purchase instalments. <b>Choice between Leasing and Hire Purchase.</b>
5.	<b>Working Capital Financing</b> <b>Introduction</b> : Key features and Characteristics of Trade Credit, Bank Credit, Commercial Papers, Certificate of Deposits and Factoring. <b>Practical Problems based on Factoring and calculations of yield of CP's and CD's.</b>

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(iv)



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### % of Weightage of Marks May - 2019

Topic	MCQ	True/ False	Short Notes	Long Ans.	Practical Problems	Total	%
1. Business Valuation	: 2	: 2		8	30	42	28
2. Mergers & Acquisitions	: 2	: 1		7	15	25	16.67
3. Corporate Restructuring		: 2	15			17	11.33
4. Assets Liabilities Restructuring	: 2	: 1			15	18	12
5. Lease Financing	: 1	: 1	5		16	23	15.33
6. Hire Purchase Financing	: 2	: 1			7	10	6.67
7. Working Capital Financing	: 1	: 2	5		7	15	10
Total	10	10	25	15	90	150	100

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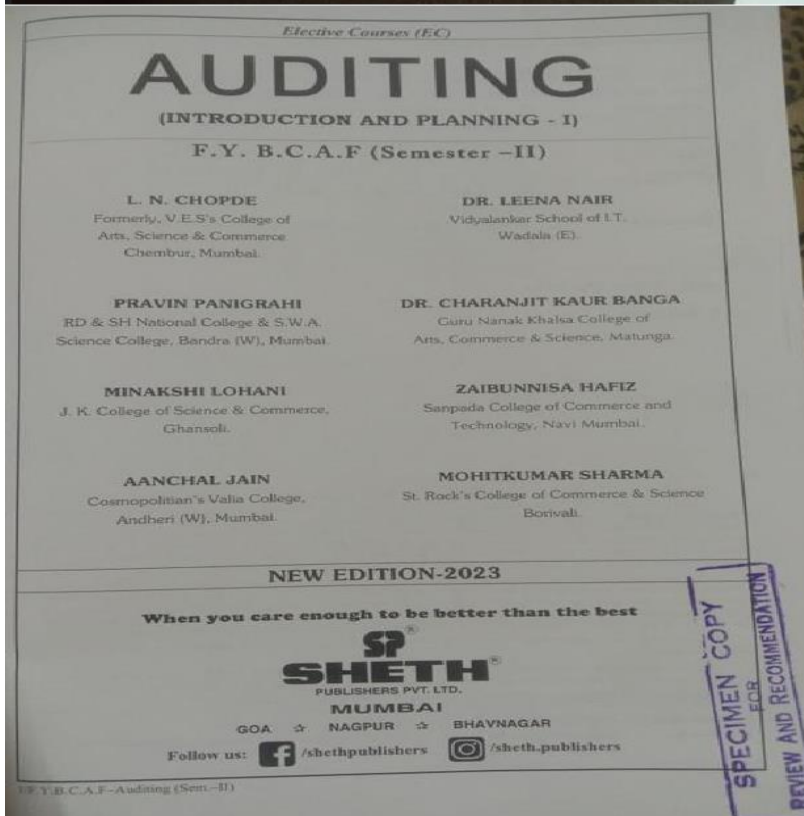
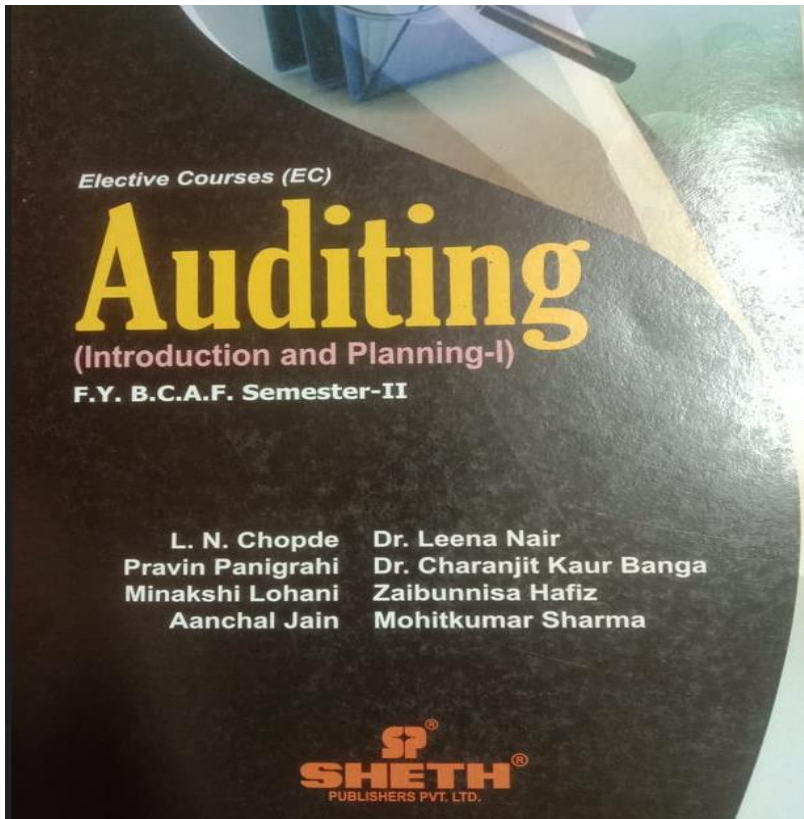
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# SYLLABUS...

## Elective Courses (EC)

### Auditing - Introduction and Planning - I F.Y.B.C.A.F. (Semester - II)

Sr. No.	Modules	No. of Lectures
1	Introduction to Auditing	15
2	Audit Planning, Procedures and Documentation	15
3	Auditing Techniques	15
4	Internal Audit	15
	<b>Total</b>	<b>60</b>

Sr. No.	Modules / Units
1.	<b>Introduction to Auditing</b> <ul style="list-style-type: none"> <li>● <b>Basics</b> Financial Statements, Users of Financial Information, Definition of Auditing, Objectives of Auditing - Primary and Secondary, Expression of Opinion, Detection of Frauds and Errors, Inherent Limitations of Audit.</li> <li>● <b>Errors and Frauds</b> Concepts, Reasons and Circumstances, Types of Errors -Commission, Omission, Principle and Compensating, Types of Frauds, Risk of Fraud and Error in Audit, Auditor's Duties and Responsibilities in Respect of Fraud.</li> <li>● <b>Principles of Audit</b> Integrity, Objectivity, Independence, Confidentiality, Skills and Competence, Materiality and Work Performed by Others, Documentation, Planning, Audit Evidence, Accounting System and Internal Control, Audit Conclusions and Reporting.</li> <li>● <b>Types of Audit</b> Meaning, Advantages and Disadvantages of Balance Sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit, Annual Audit.</li> <li>● <b>Miscellaneous</b> Advantages of Independent Audit, Qualities of Auditors, Auditing Vs. Accounting, Auditing Vs. Investigation, View the Concept True and Fair.</li> <li>● <b>Accounting Concepts Relevant to Auditing</b> Materiality, Going Concern.</li> </ul>
2.	<b>Audit Planning, Procedures and Documentation</b> <ul style="list-style-type: none"> <li>● <b>Audit Planning</b></li> </ul>

	<ul style="list-style-type: none"> <li>● <b>Audit Programme</b> Meaning, Factors to be Considered, Advantages, Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before Commencing Works of Audit, Overall Audit Approach.</li> <li>● <b>Audit working Papers</b> Meaning, Importance, Factors Determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books.</li> <li>● <b>Audit Notebook</b> Meaning, Structure, Contents, General Information, Current Information and Importance.</li> </ul>
3.	<b>Auditing Techniques</b> <ul style="list-style-type: none"> <li>● <b>Test Check</b> Test Checking Vs Routing Checking, Test Check Meaning, Features, Factors to be Considered, When Test Checks can be Used, Advantages, Disadvantages and Precautions.</li> <li>● <b>Audit Sampling</b> Audit Sampling, Meaning, Purpose, Factors in Determining Sample Size - Sampling Risk, Tolerable Error and Expected Error, Methods of Selecting Sample Items Evaluation of Sample Results Auditors Liability in Conducting Audit based on Sample.</li> <li>● <b>Internal Control</b> Meaning and Purpose, Review of Internal Control, Advantages, Auditors Duties, Review of Internal Control, Inherent Limitations of Internal Control, Internal Control Samples for Sales and Debtors, Purchases and Creditors, Wages and Salaries.</li> <li>● <b>Internal Checks Vs. Internal Control, Internal Checks Vs. Test Checks</b></li> </ul>
4.	<b>Internal Audit</b> Meaning, Basic Principles of Establishing Internal Audit, Objectives, Evaluation of Internal Audit by Statutory Auditor, Usefulness of Internal Audit. Internal Audit Vs. External Audit, Internal Checks Vs. Internal Audit.



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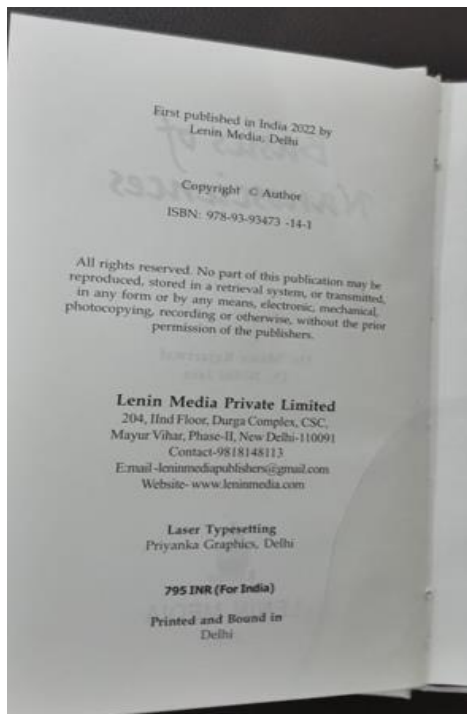
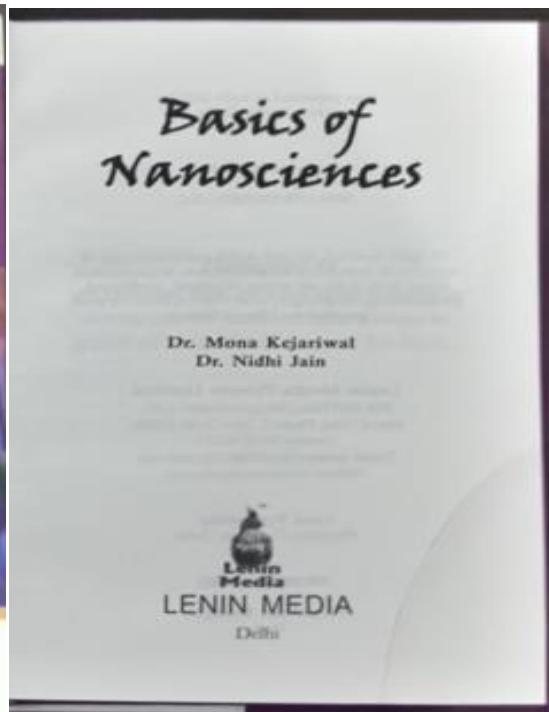
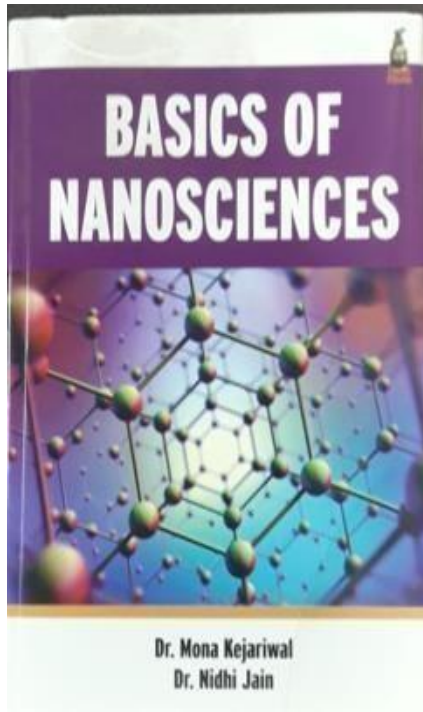
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Chapter:

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## Nanotubes

Nidhi Jain<sup>1</sup>, Mona Kejariwal<sup>2</sup>

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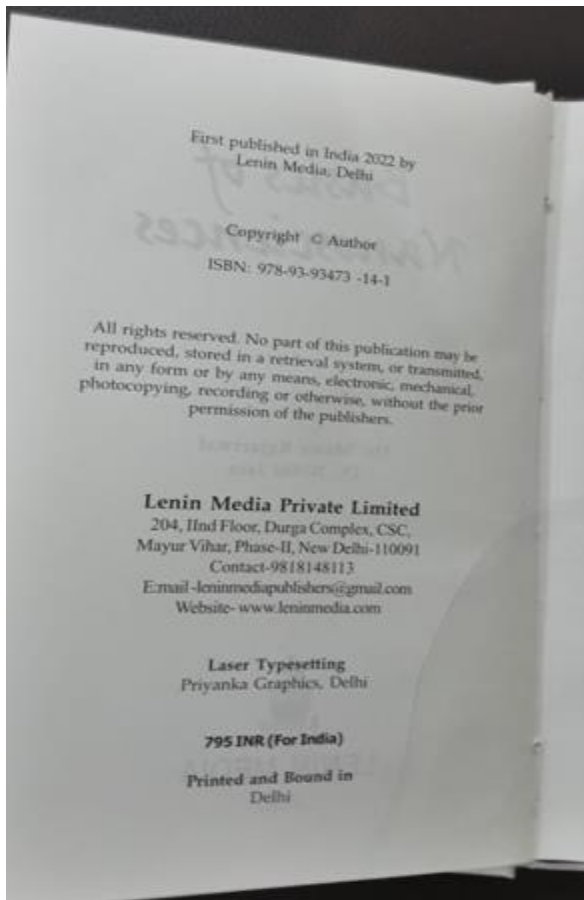
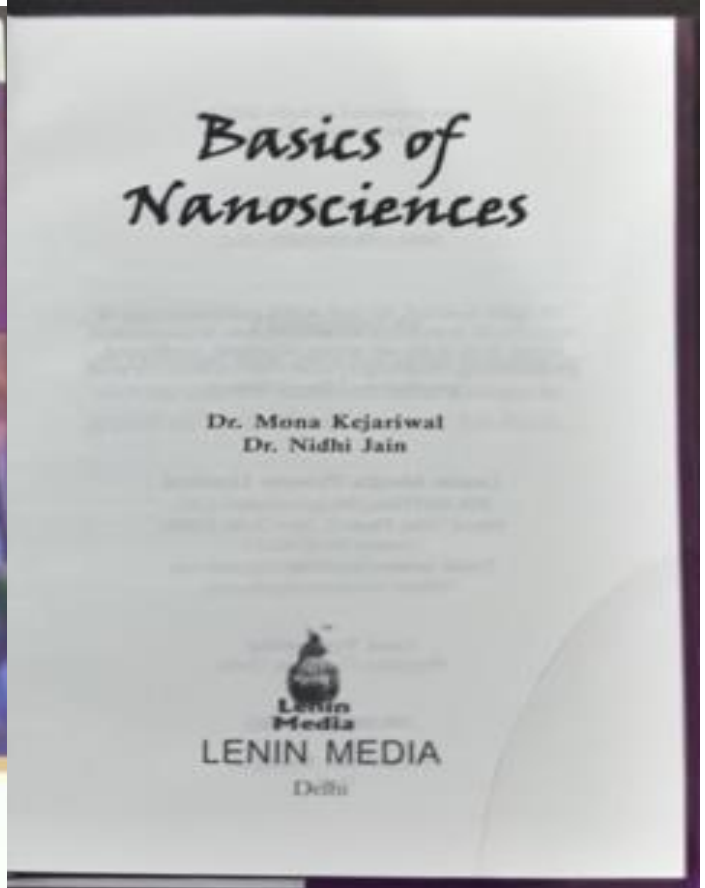
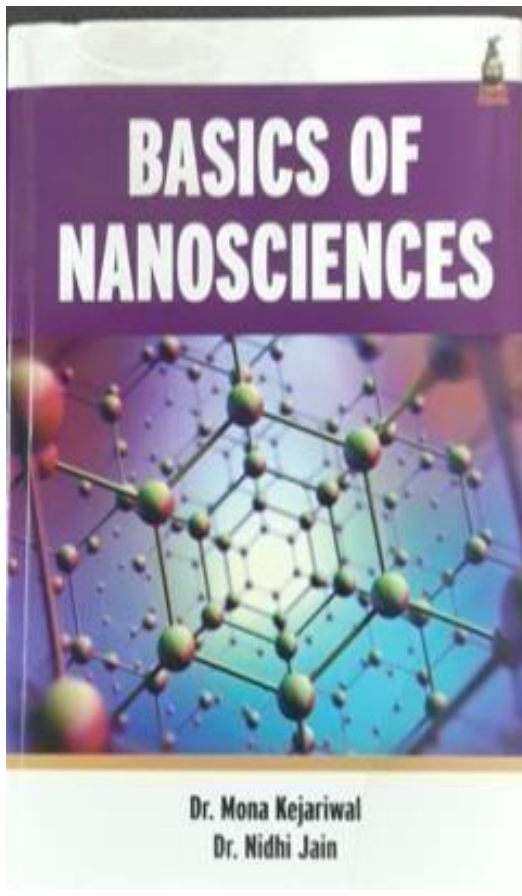
The reactivity of the materials depends on the surface to volume ratio. When the materials are broken, cut down to nanosize the surface area of the material greatly increased. The increased surface area increases the chemical reactivity of the materials which in turn are useful for various applications. The increased surface area serves as a playing ground for the numerous applications. The nanosize materials could be easily used as catalysis, for removal of various pollutants and dyes. They are very effective in biomedical function such as drug delivery and wound healing etc. When the materials is covered with thin film of nanomaterials, the materials shows hydrophobicity for water means shows resistance to water, microbial or fungal growth. Therefore protected the materials from the environment attack and retain the appearance of the materials as it is. Materials properties will completely change when its bring down to Nano level for example gold in bulk color is golden in colour and when its bring down to 1nm diameter the color of the gold particle changes to red. Same if we consider of the silver, the bulk silver is




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## Nanoparticle: A Tool for Covid-19 Management and Control

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### ABSTRACT

World is facing a uncertain and difficult time since two year due to SARS (Severe Acute Respiratory Syndrome) Covid-19 outbreak, which millions of people suffered and many lives were lost. Various aspect of Covid management principles applied to control the Covid-19 pandemic were derived from the molecular applications of nanoparticles (NPs).

Nanoparticles are the most versatile element for the modification of properties at molecular levels. This made them readily available and handy for the technical help in the control of the SARS Covid-19 during the rising time. We have discussed some critical use of nanoparticles in drug delivery systems, surface applications in prevention and management of Covid-19 SARS infection. The small size, low toxicity, electrical charge, and chemical plasticity make it possible to overcome several barriers encountered in various cases of administration of a genetic drug.

**KEYWORDS:** Nano-biotech Nanoparticle, Nanotechnology, Covid-19 SARS-2, drug delivery systems, Blood Brain barrier.

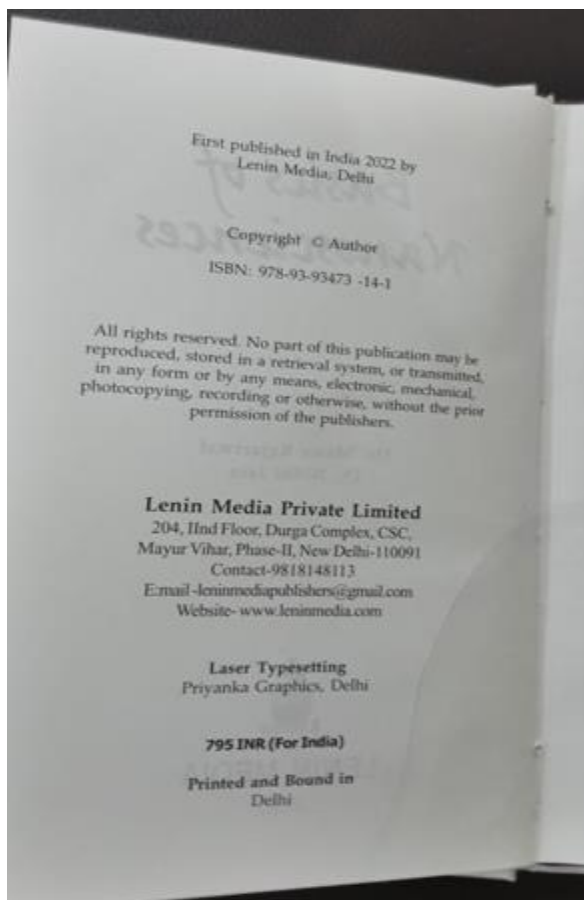
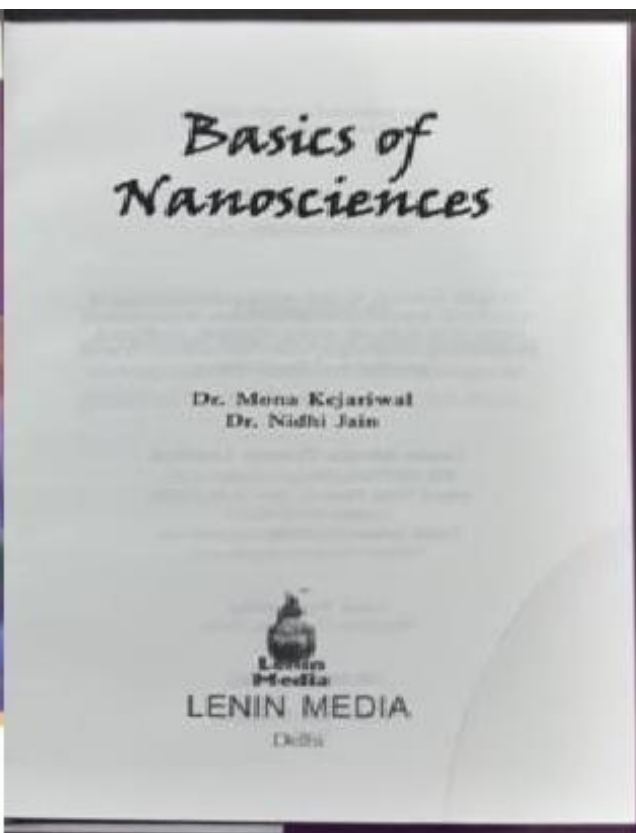
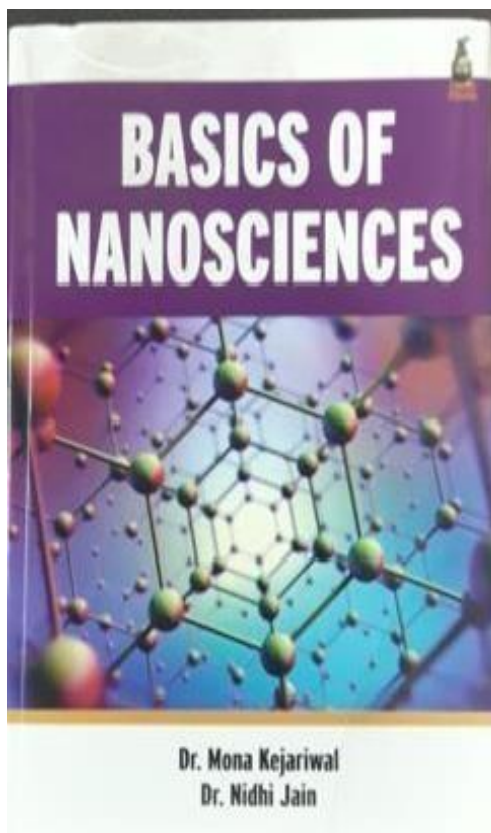


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# Nanomaterials – An Introduction

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## ABSTRACT

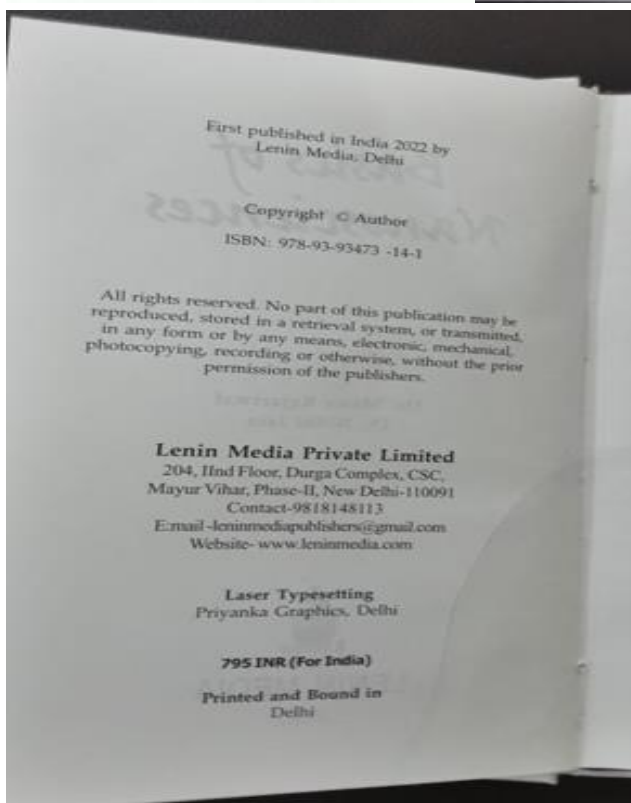
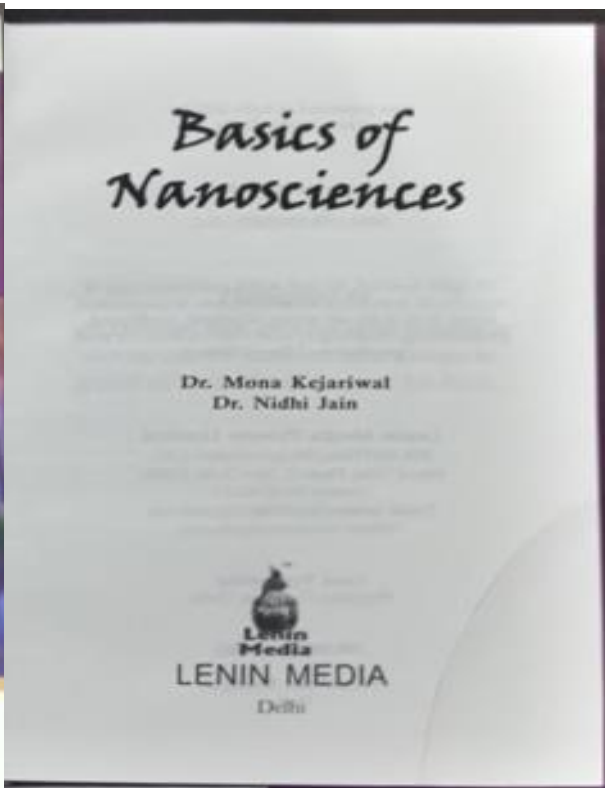
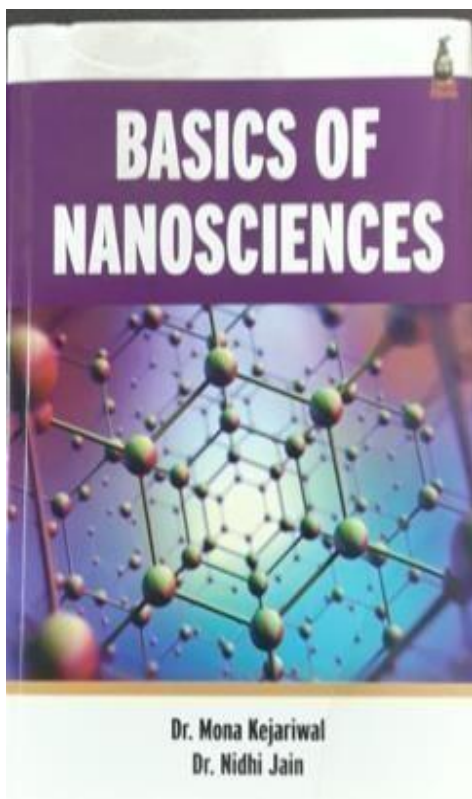
Nanomaterials have emerged as a remarkable class of materials containing many specimens of at least one magnitude 1 to 100 nm. Higher heights can be achieved with a logical design of nanomaterials. Nanomaterials can be produced with outstanding magnetic, electrical, synthetic, mechanical, and catalytic properties that are very different from their counterparts in quantity. Nanomaterial structures can be sorted as required by precise control of size, shape, bonding conditions, and proper operation. This chapter discusses the brief history of nanomaterials and their use throughout history to simulate advances in the development of nanotechnology. In particular, we define and explain the various terms related to nanomaterials. Various nanomaterial synthesis methods, including top-down and bottom-up approaches, are discussed. Different aspects of nanomaterials are highlighted throughout the chapter. This chapter describes the development of nanomaterials, especially fullerenes, carbon nanotubes, graphene, carbon quantum dots, nanodiamonds, carbon nanohorns, nanoporous materials, core-shell nanoparticles, silicene, antimonene, MXenes, 2D MOF nanosheets, boron nitride double nanosheets, boron nitride nanosets and metal-based nanomaterials. Finally, some applications and the future challenges and broad area of research has been explained.



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# Nanoparticles: Applications

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The term nanotechnology was first time used by Tokyo Science University Prof. Norio Taniguchi of Tokyo Science University in 1974 to describe the precision manufacture of materials with nanometer tolerances, the idea has been around many centuries and it is often credited to renowned physicist Richard Feynman in 1959 and earned Nobel Prize for it. It has often been credited to K. Eric Drexler as the re inventor (1980) of the nano technology, since he used this term in his 1986 book on Engines of creation where he expanded the term into nano systems to mean molecular machinery, manufacturing and computation. The nanomaterials and nanotechnology often referred as "the design, characterization, production, and application of structures, devices, and systems by controlled manipulation of size and shape at the nanometer scale (atomic, molecular, and macromolecular scale) that produces structures, devices, and systems with at least one novel/superior characteristic or property".


Nanoparticles can display properties significantly different from the bulk material because at this level quantum effects may be significant. Simply we can say the mechanical, electrical, optical, electronic, catalytic, magnetic, etc. properties of solids are significantly altered with great reduction in particle size. eg. Silver



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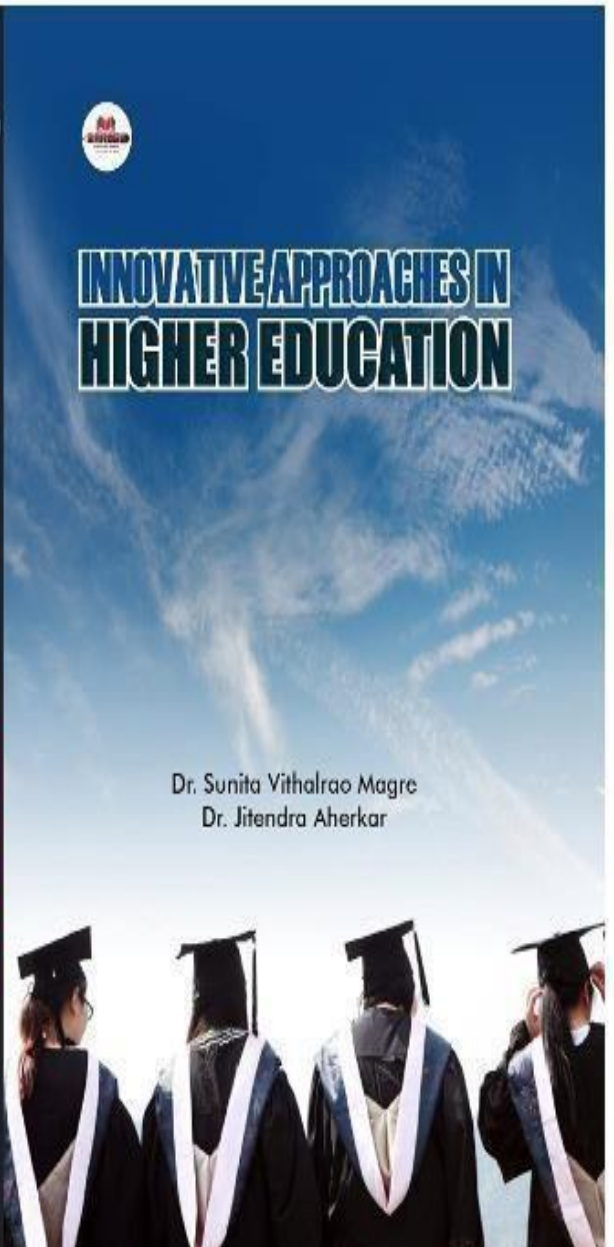
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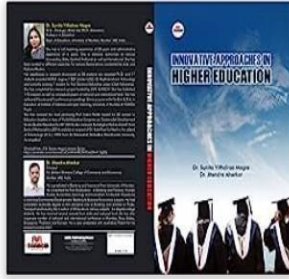
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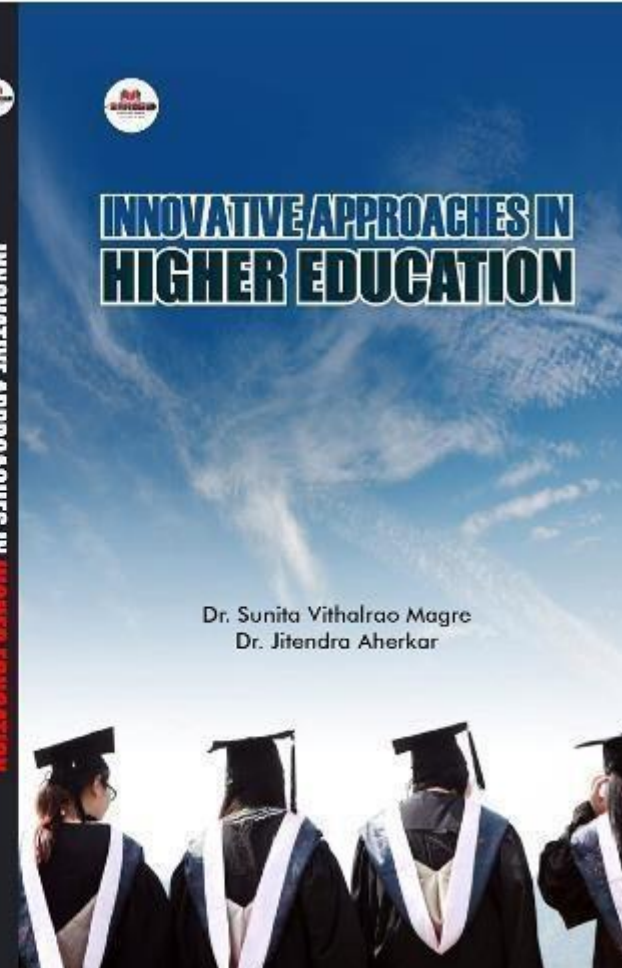
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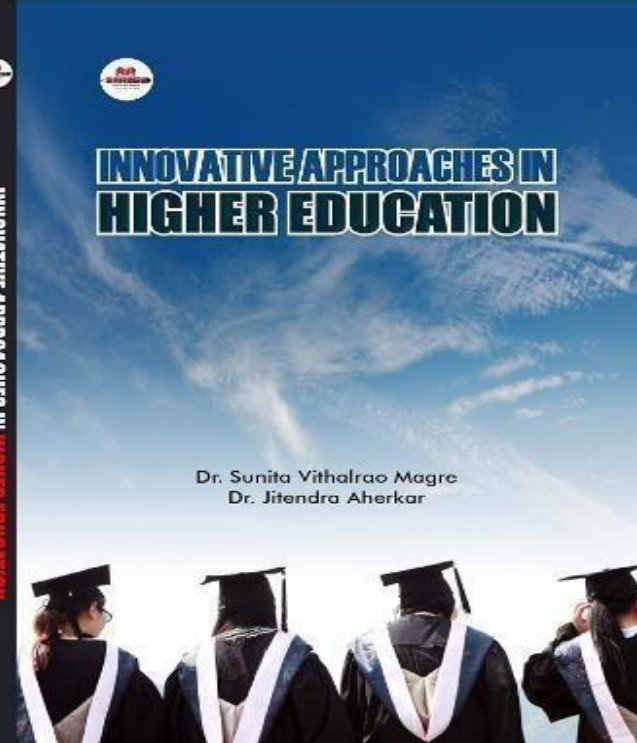
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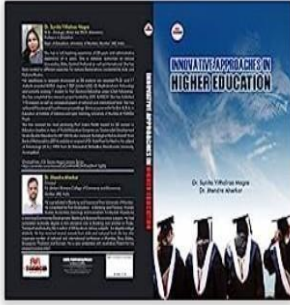


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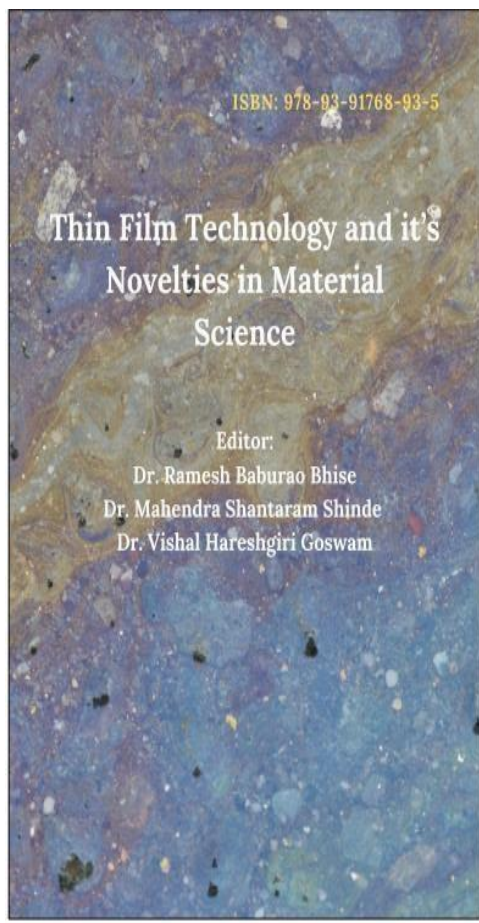


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**COMPARATIVE STUDY OF NANOPOROUS THIN FILM  
GLASS SAMPLES PREPARED BY SOL-GEL TECHNOLOGY  
USING OPTICAL, STRUCTURAL, MECHANICAL AND  
THERMAL PROPERTIES**

**L. V. Jathar**

Department of Physics,  
R. D. & S.H. National College & S. W.A. Science College Bandra (W)

**Abstract:**

Thin films glass samples having nano pore size are prepared by two different methods using sol-gel technology. Qualitative comparative study of these samples carried out by measuring optical transmission, bulk density, mechanical strength, and thermal properties. The instrumental techniques used for analysis are UV-Visible Transmission Spectroscopy, FTIR, XRD, UTM and TGA-DTA. The unheated thin film glass samples take more time as compared to heated samples to dry up and show moderate transmission in near UV and UV region which is much enhanced by heat treatment. Heated thin glass samples have good mechanical strength compared to unheated thin glass samples. From optical, mechanical and physical properties these nano pore size thin films glass samples can be useful as host matrices for solid state dye lasers, sensors and solar concentrator.

**Keywords:** Sol-gel glass thin film, Nanoporous, Optical transmission.

**1. Introduction:**

From last thirty years, the research work with sol-gel glasses used as solid host for solid-state dye laser materials and optical sensors has attracted a great deal of attention because of its high potential utility than polymers and plastics [1-5]. The sol-gel reaction, mainly involves two reactions hydrolysis and polycondensation of Tetraethylorthosilicate (TEOS) in the presence of acid (HCl) or base (NaOH) as catalyst occurs at low/room temperature and therefore organic dye molecules or any other biological molecules can be embedded in the gel network, without risk of thermal degradation, whereas normal glass require high temperature for preparation and therefore organic laser dyes cannot be embedded in that glass. Also the thin film glass samples prepared by sol-gel techniques have nano pore size, good optical transparency in the UV-near UV region and can be prepared in the form of rectangular blocks, films discs rings or cylinders. Therefore the sol-gel method is a novel technology for incorporation of organic dye molecules/biological molecules into an inorganic silica host. Sometimes the matrix is given various treatment such as dip treatment or heat treatment during drying of matrices [6]. To achieve the appropriate desired quality of sol-gel matrices for a particular application such treatments are utilized. It is necessary to know and understand the effect of various treatments of host matrix on the various properties, in particular photophysical properties when the material is to be used as host for laser active material and optical sensors.

The objectives of present research work are

1. Preparation of highly optical quality film using sol-gel technology by two method.

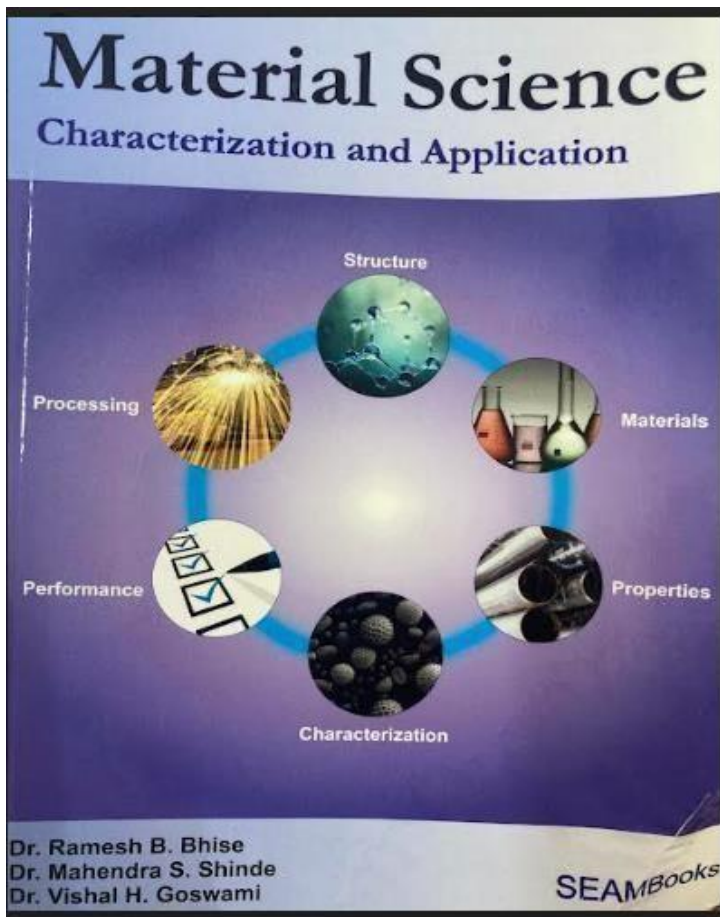
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# Chapter: 8

## Characterization of Single Crystals (CsI :Tl) Grown in Intermetallic Coated Silica Crucibles

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Physics Department, R. D. & S.H. National College & S. W.A. Science College Bandra (W)

**Abstract:** CsI doped with 0.2 mole % Tl Single crystals were grown using a gradient furnace. Carbon, gold, and platinum coated on inner wall silica crucibles were used to overcome sticking of crystals to the crucible wall. Grown crystals were recovered without any sticking any silica crucible. XRD pattern and photo luminescence of the crystals show no adverse effect of the coating formation of single phase. However, transmittance of crystals grown in gold and platinum crucibles was less than that of the crystals grown using carbon coated crucibles. The carbon coated crucibles show a transmittance higher than 70%. Gamma-ray detectors fabricated these crystals show good linearity for energies up to 1332 keV and nearly 7.8% energy resolution at 1332 keV.

**Keyword:** Scintillation, alkali halide, Luminescence

### 1. Introduction:

Scintillator material is the material which will emit the light (UV-visible range) on absorption of high energy radiation. Radiation cannot be seen, heard, tested, sensed which makes them dangerous [1-2]. At the same time if we can detect them, we can use their energy in various applications and make them advantageous [1-4]. This makes the radiation detection important in ever exploring field. Various type of detectors for detecting radiation have been investigated depending on type of materials like organic scintillation detector, inorganic scintillation detector, semiconductor detector [3-6]. These detectors are in different forms like liquid, solid, gas detector. Inorganic scintillation detectors are normally in liquid form and are fast, but due to low density, low light output, and nonlinear response as a function of radiation energy impose restriction on their use in various applications [1-8]. While inorganic scintillator material having high density, high light output, linear response over large range of radiation energy is best option for many radiations detector requirement. Here in this study, we will understand inorganic scintillation detector material that is alkali halide and rare earth silicate doped with proper dopant.

Alkali halide doped with the thallium includes NaI:Tl, CsI:Tl, LaBr<sub>3</sub>:Ce, SrI<sub>2</sub>:Eu, LiI:Eu, etc. they show good scintillator properties like high light output, energy resolution making them

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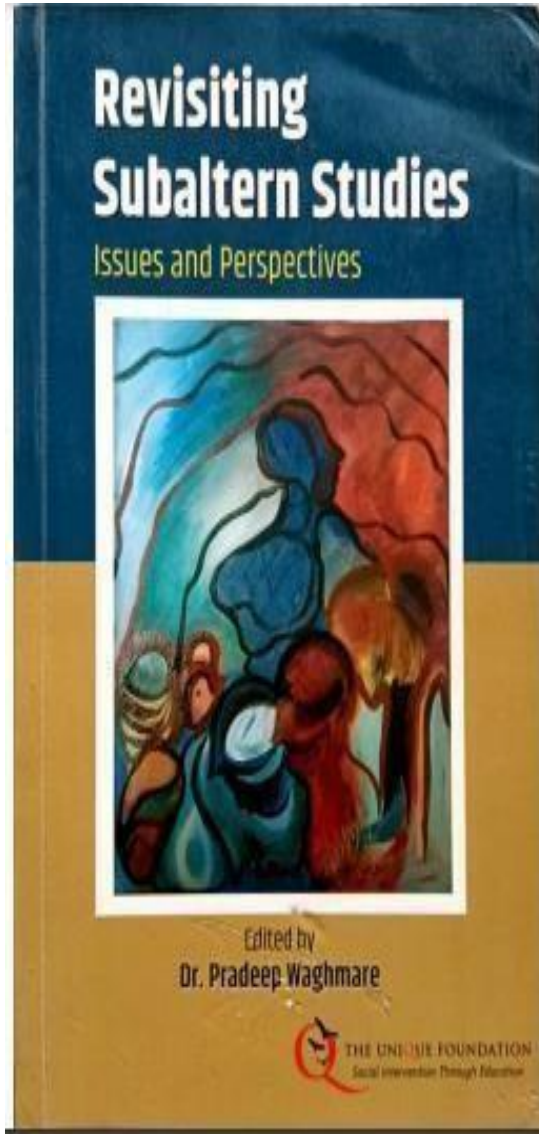


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## Revisiting Subaltern Studies

Issues and Perspectives

Edited by

Dr. Pradeep Waghmare

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## Farmers as Subaltern and Agrarian Reforms at Crossroad

Ravi Shukla

"The world has enough for everyone's need,  
but not enough for everyone's greed."  
- Mahatma Gandhi

Agriculture is a sector which needs constant policy attention and reforms. Any delay or policy paralysis results into increase in the plight and hardships to the farmers. Present Indian society like any other has evolved from primitive hunters and gatherers into an agrarian society. The primitive society was based upon natural equality and inequalities. People lived the principles of consumption. Therefore, it was a property-less, exploitation-less, classless, and stateless society. Everyone owned everything till it mattered to their survival. Though life was difficult, the concept of subalternity and superiority didn't exist. Even, the theory of 'social contract' presented similar conditions in the 'state of nature'. With the development of technology and private property, the weaker section was forced to serve the strong, without any significant role in the decision-making process. The Industrial Revolution and colonialism

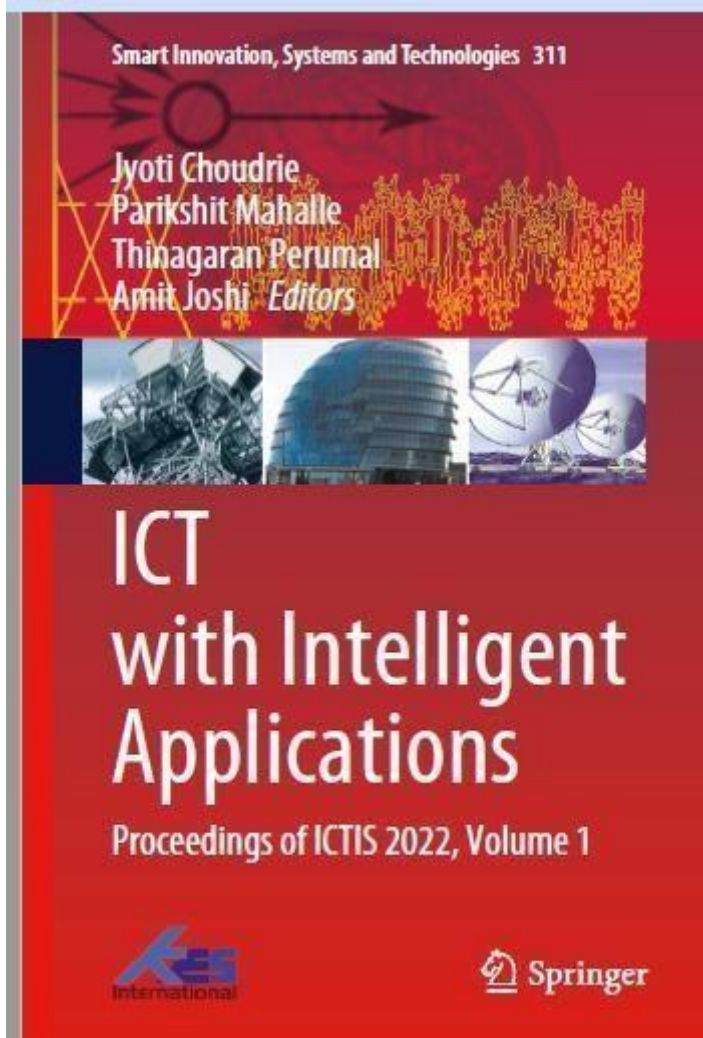


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the researchers. Most importantly, we are also grateful to our local support team for their hard work for the conference.

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Ahmedabad, India

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## Chapter 69

# Present NLP Status for Dogri Language



Vipul Saluja, Annie Rajan, and Jyotshna Dongardive

**Abstract** As a result of the recent information boom, the contents of the Internet are increasing in the multilingual form and mostly in the form of natural languages. Therefore, the research on Natural Language Processing (NLP) tasks of regional languages is very important. Dogri, the state language of Jammu and Kashmir (J&K), has remained as a low-resourced language in the field of NLP. In this survey, the contributions of various researchers for Dogri NLP are reviewed and discussed. Sources of Dogri dataset and tools for processing Dogri are explored. Challenges such as the complex linguistic tasks and lack of digital resources are also discussed. The future scope and basic requirements for improving various Dogri language processing tasks are highlighted.

**Keywords** Dogri · Natural language processing · Low resource language · Digital resources

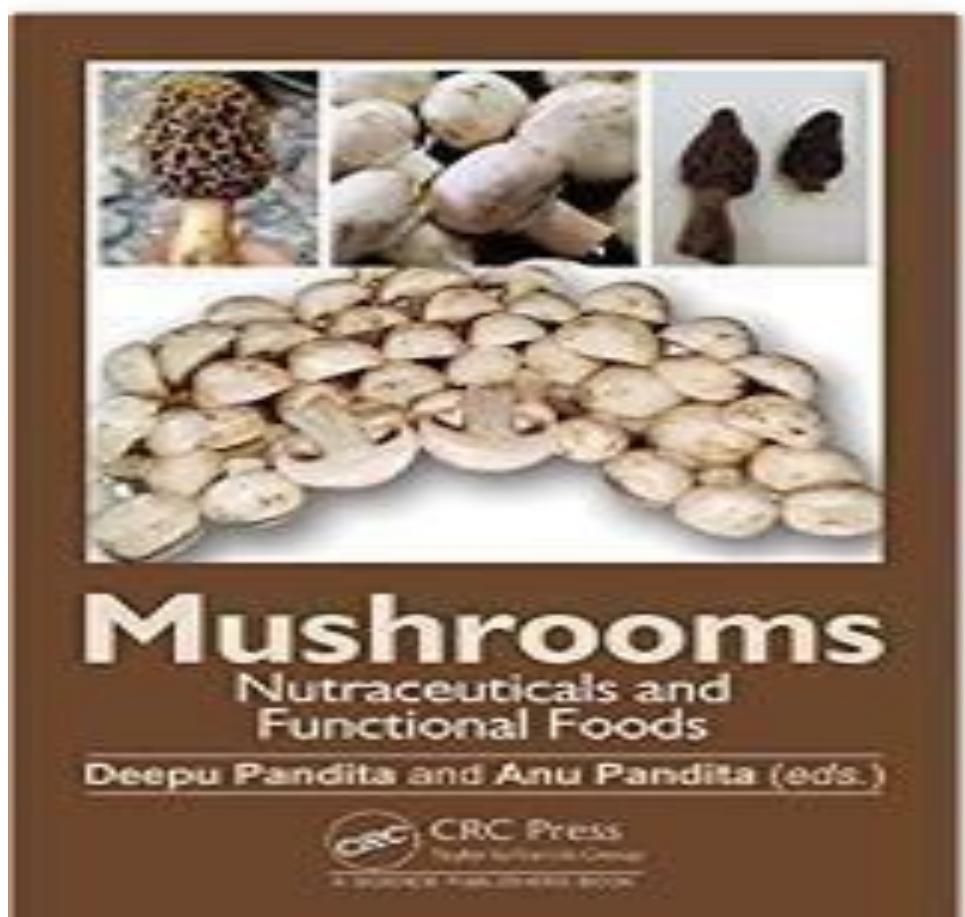
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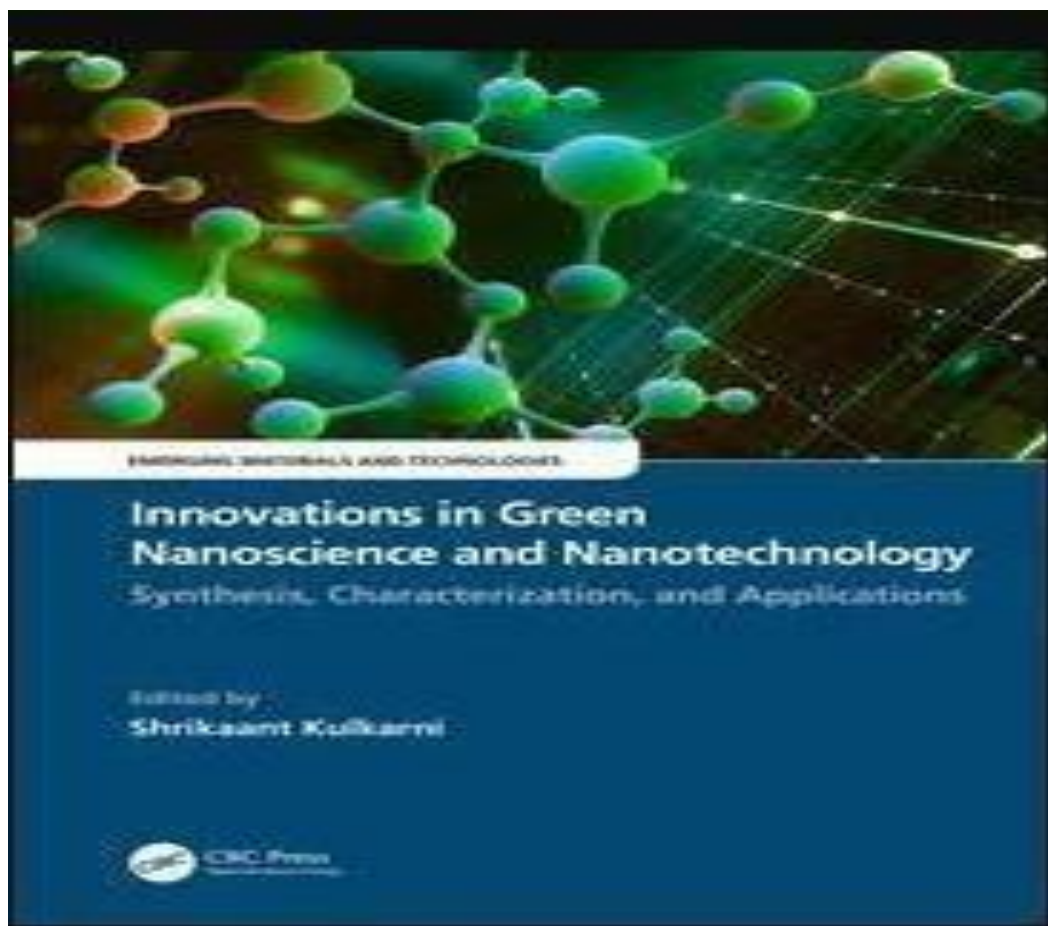
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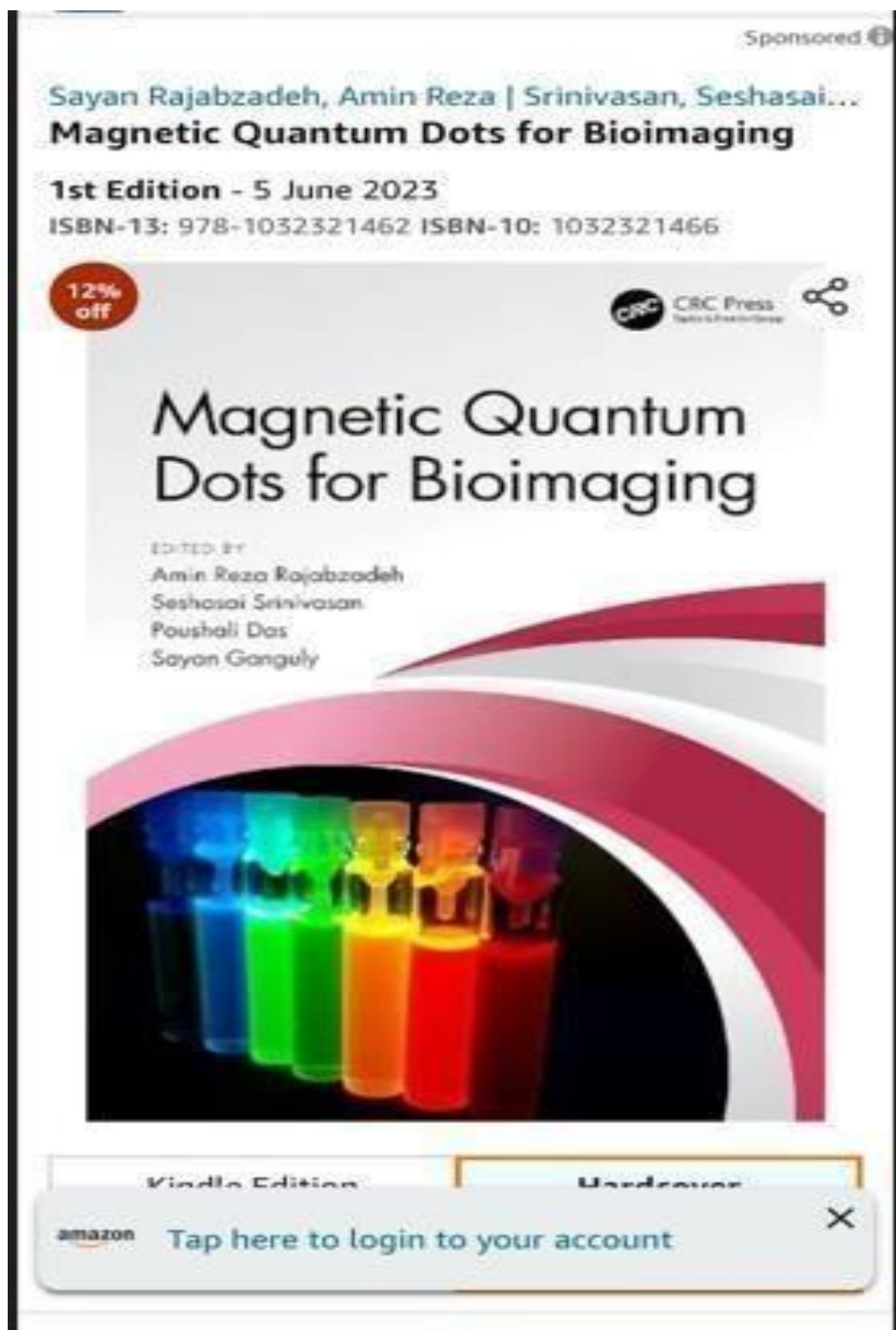


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# 11 Carbon Quantum Dots-Based Magnetic Nanoparticles for Bioimaging

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Magnetic Quantum Dots for Bioimaging

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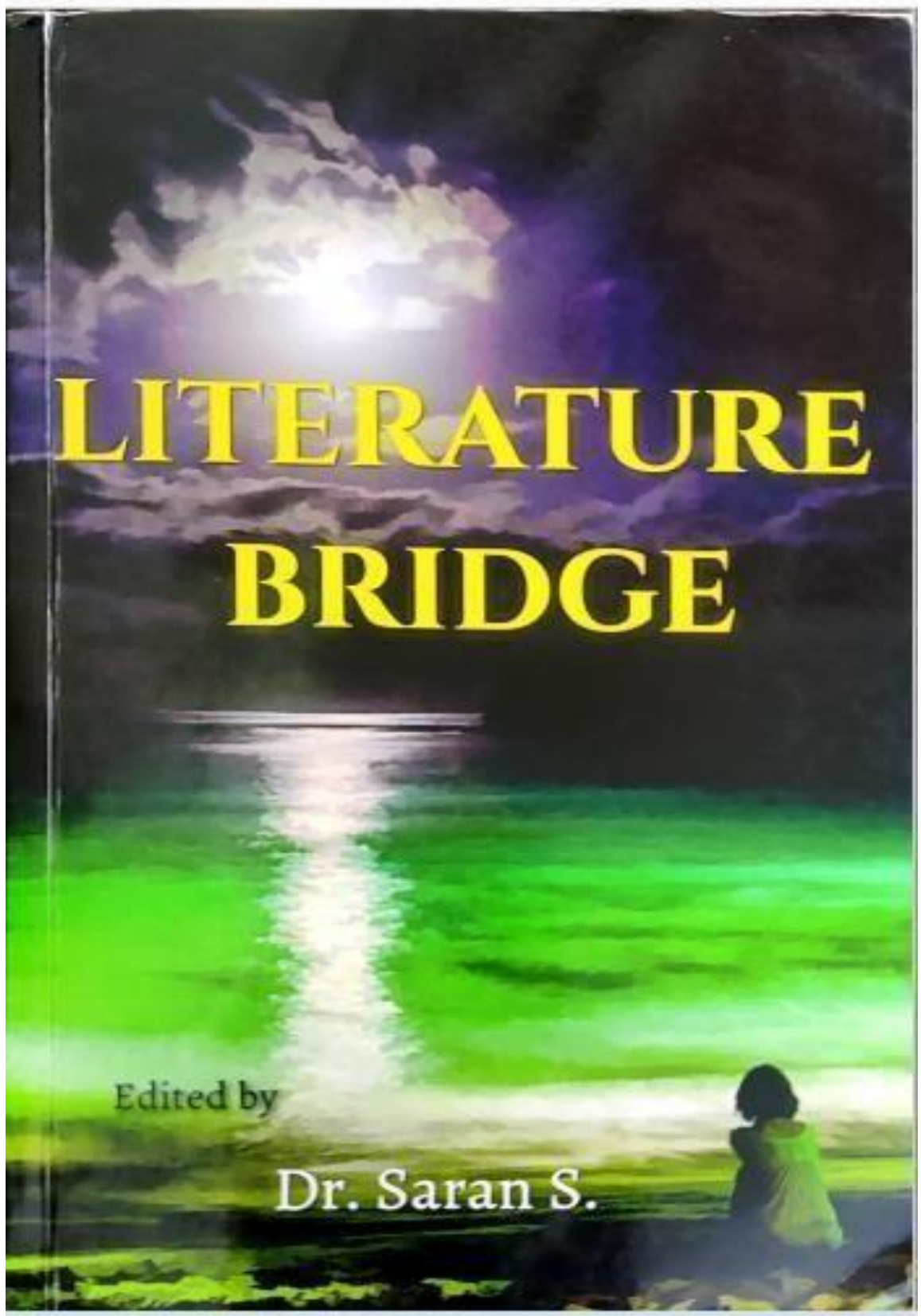
Minimally invasive molecular imaging has emerged as a powerful tool for the early diagnosis and fundamental research of malignant tumors [1]. This is because it allows the visualization of cellular function and molecular process in living organisms



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# EXISTENTIALISM STAGED: A COMPARATIVE STUDY BETWEEN WAR LITERATURE AND PANDEMIC LITERATURE

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## ABSTRACT

The purpose of this study is to explore and identify the theory of Existentialism in War literature through the novel *The book Thief* by Markus Zusak and Pandemic literature through the poems and short stories by the survivors of COVID 19. Be it the gruesome world Wars/ the current one's going on around the world or the plagues of the past/ the COVID-19 Pandemic from which the world is still grappling with, results in thousands of deaths. The lucky ones to survive these catastrophic events suffer a lot. Suffering is conceptualized as a deeply existential issue that fundamentally alters people's outlook towards life and hampers personal flourishing. During these situations, a person loses the Essence of his life which results in questioning their existence. 'Existence precedes Essence' is the central theme of the Theory of Existentialism, as said by Jean Paul Sartre. Essence is the roles, labels, definitions,

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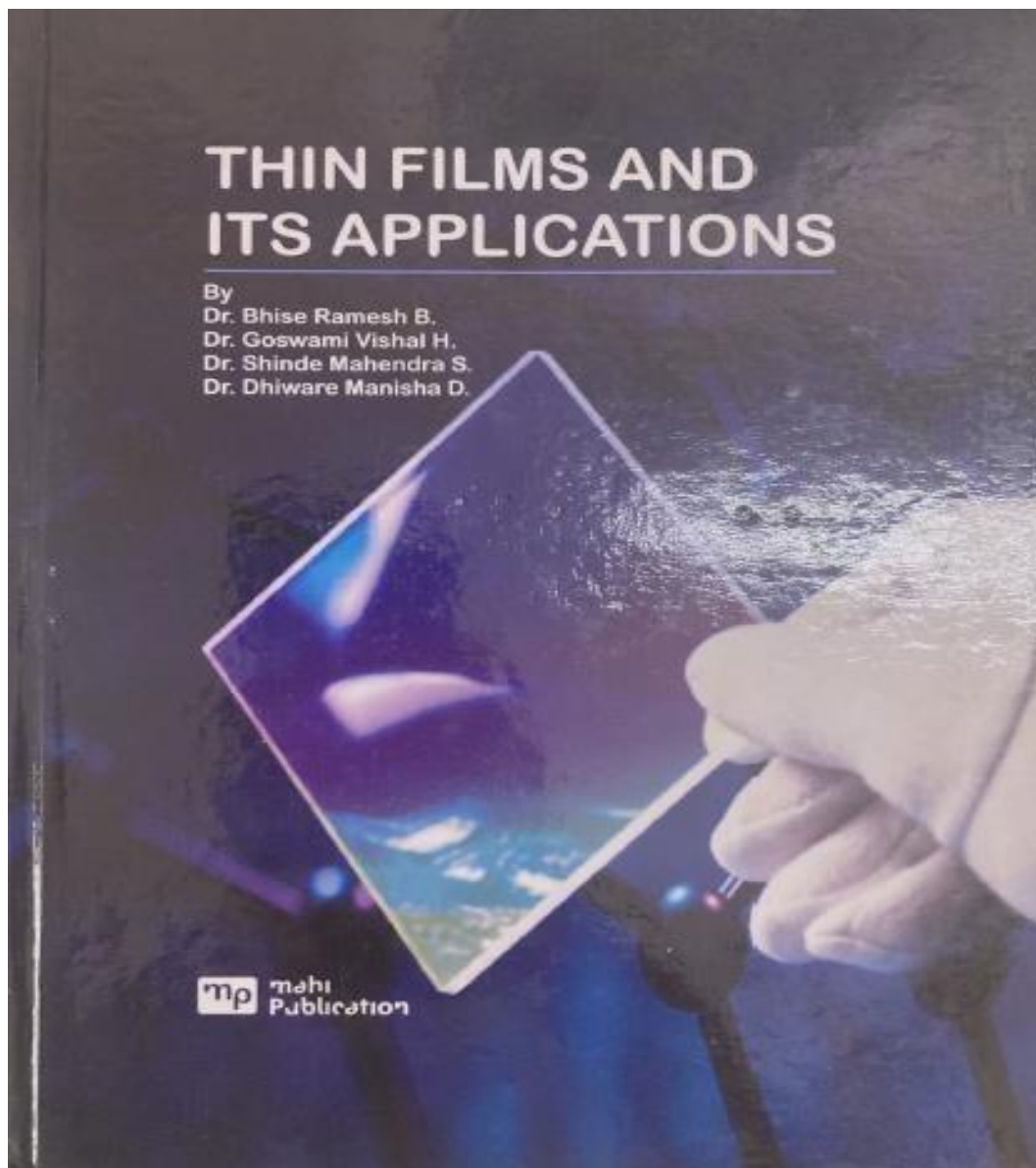
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### CHAPTER 1: INTRODUCTION

#### 1.1. Financial Markets

Financial markets are the backbone of modern economies, serving as the platform for financial transactions and investments. In today's scenario, the financial market has become a source of judging points on how global or national economies are performing. The effect of government economic policies such as fiscal and monetary can be easily observed in stock and bond exchange markets.

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– Prime Minister Narendra Modi

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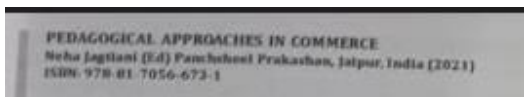
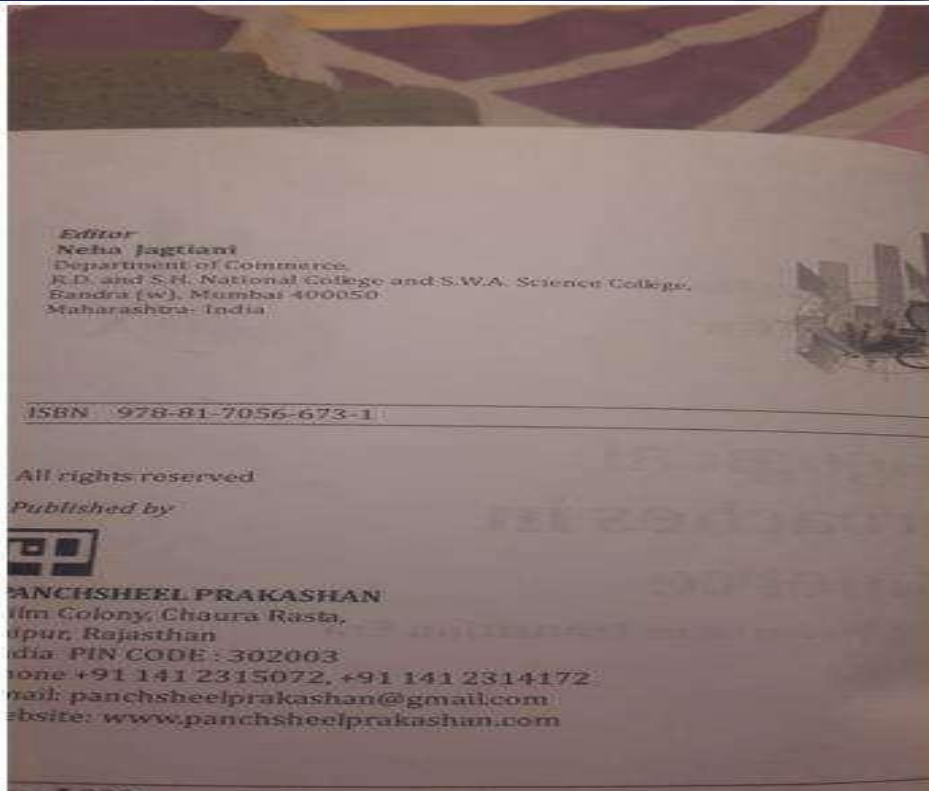
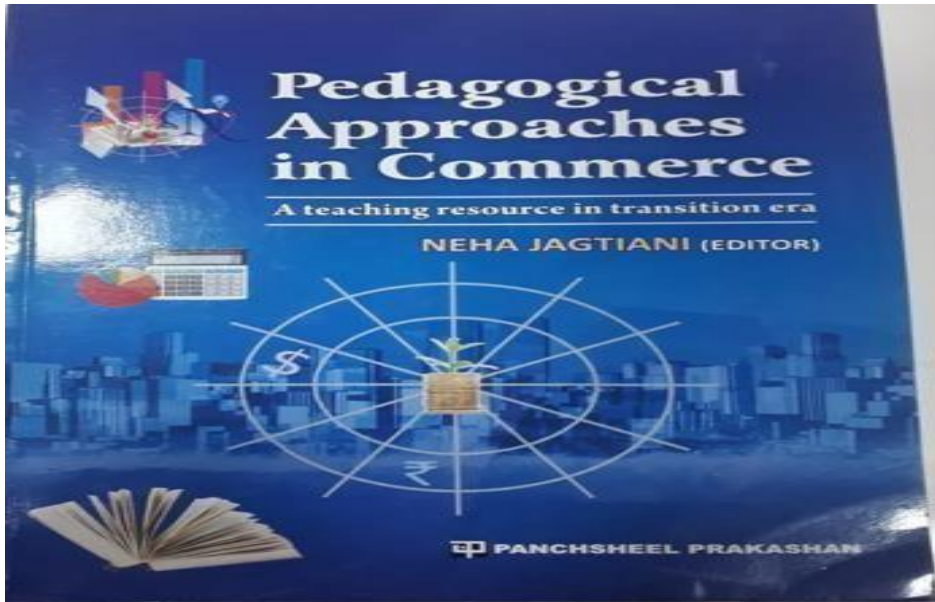
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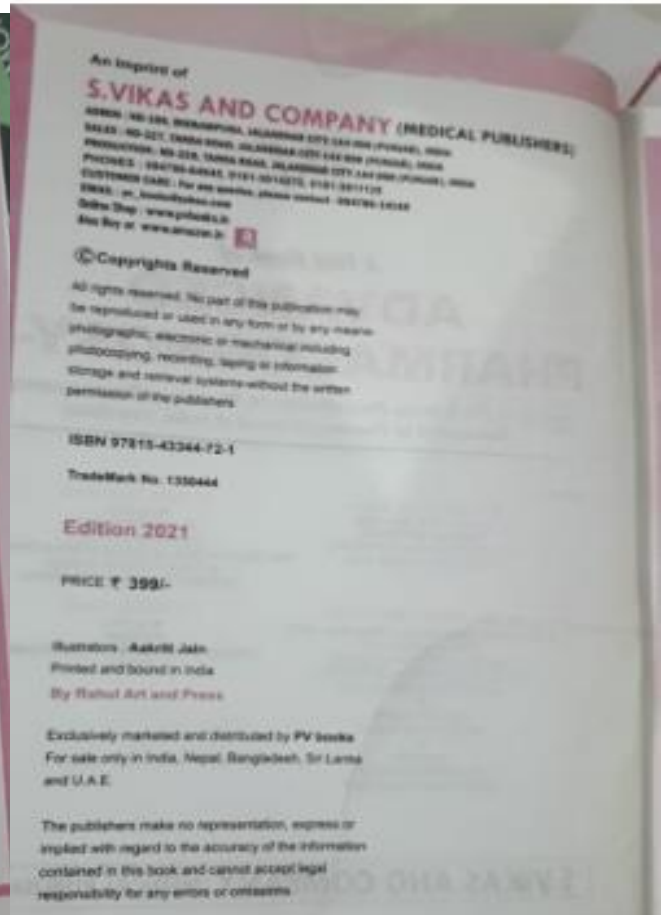
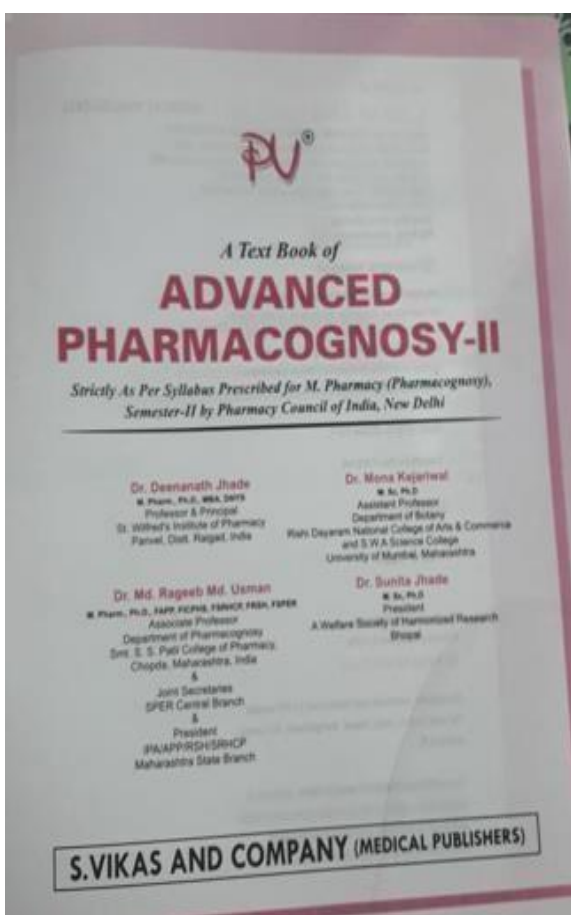
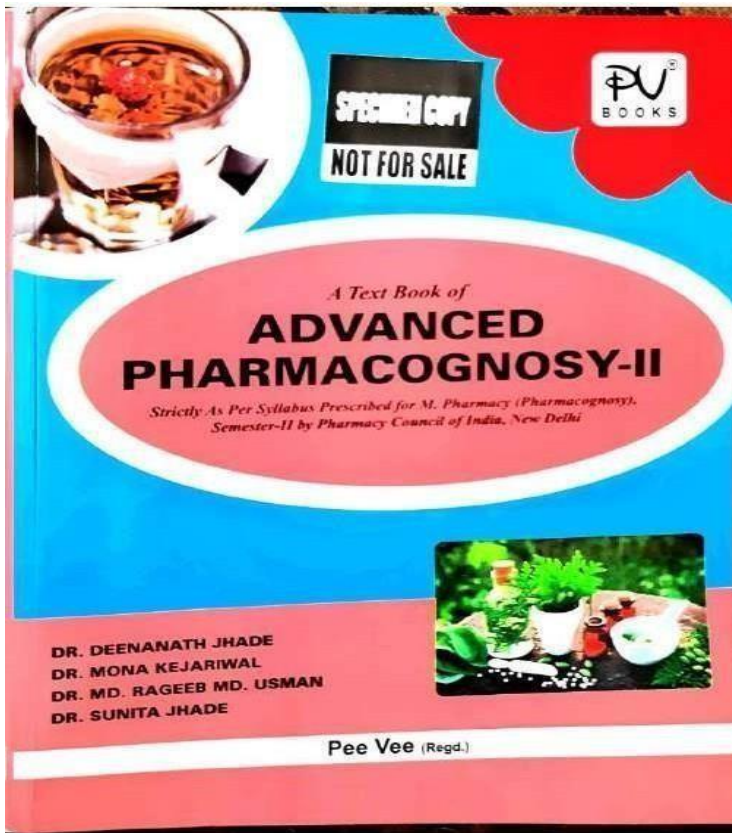
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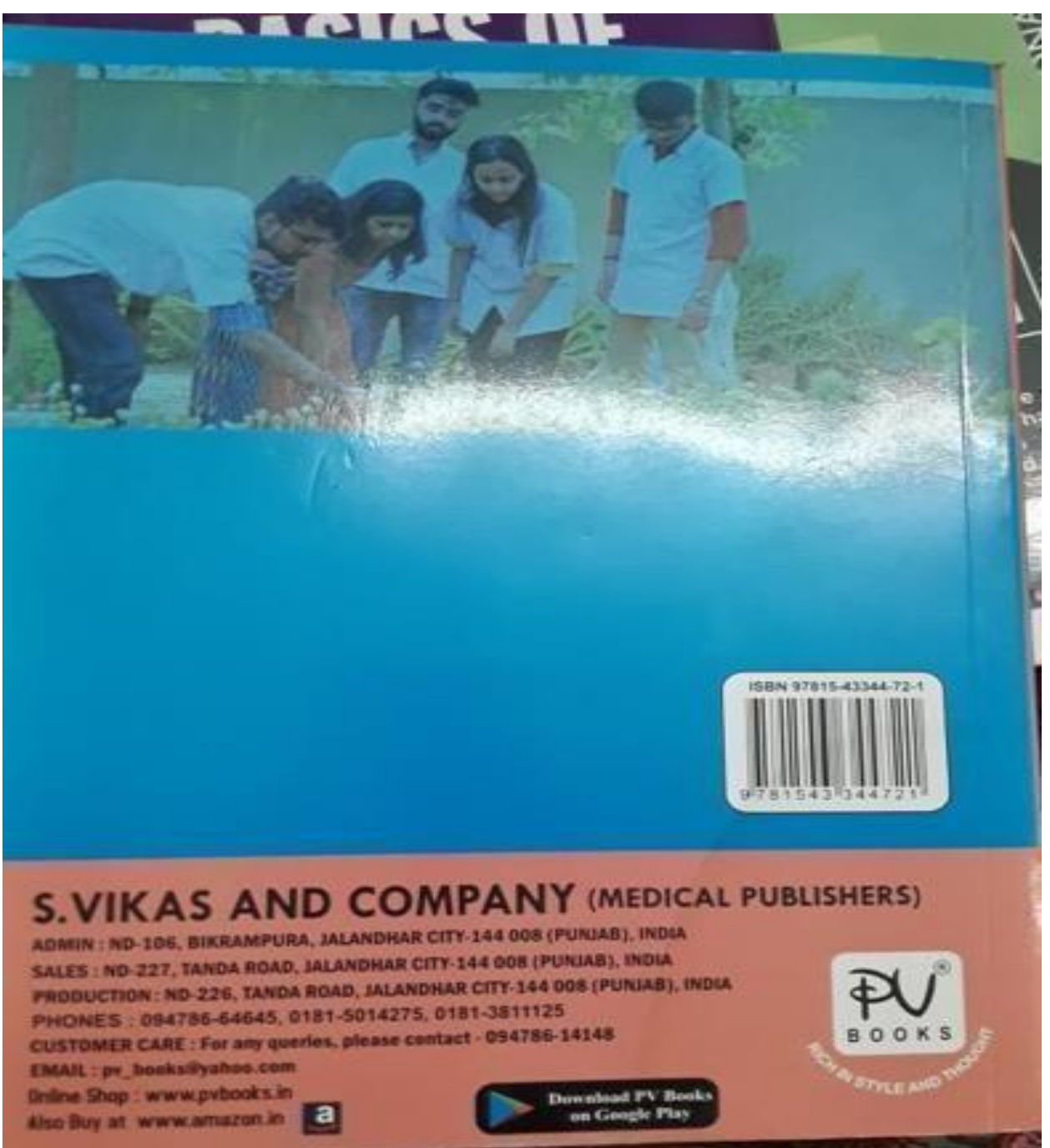
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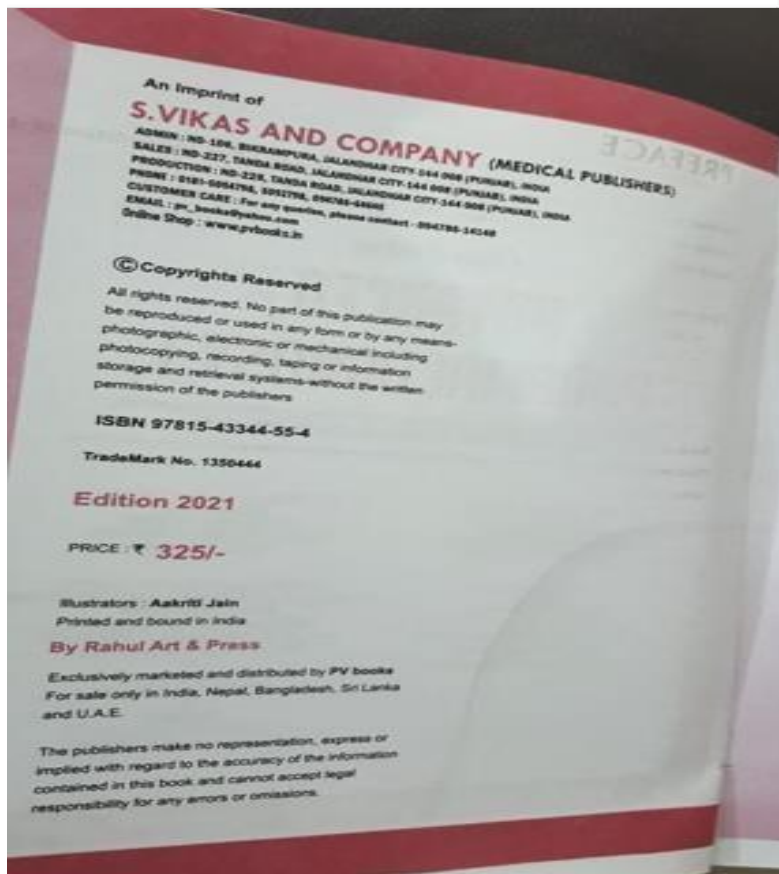
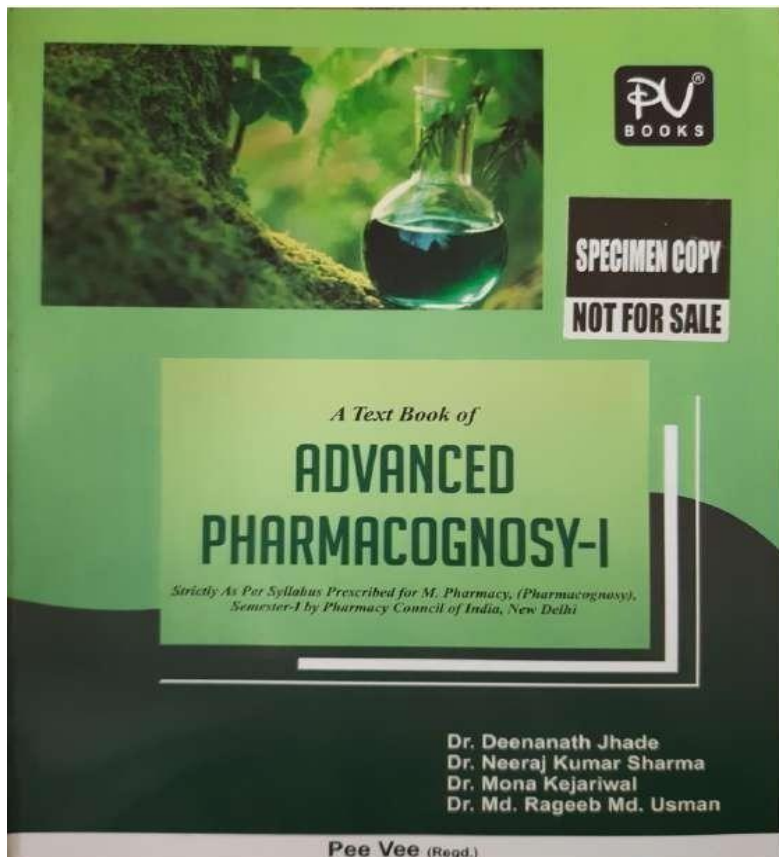
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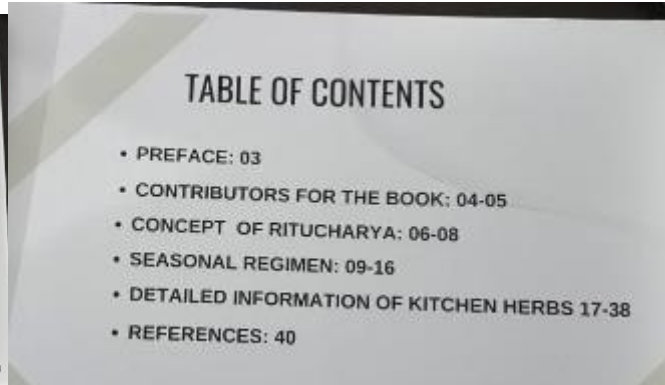
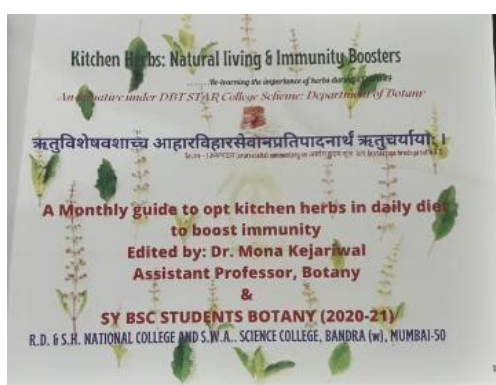
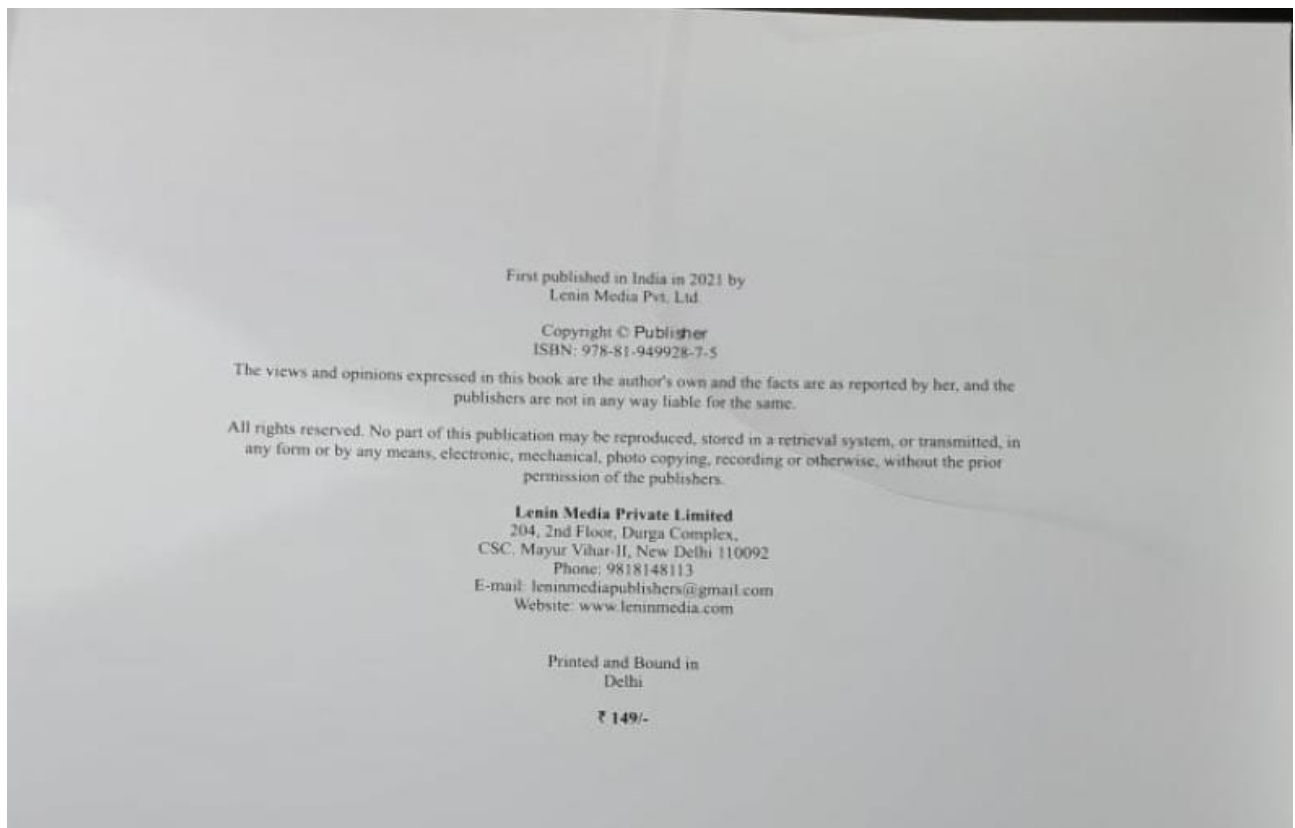
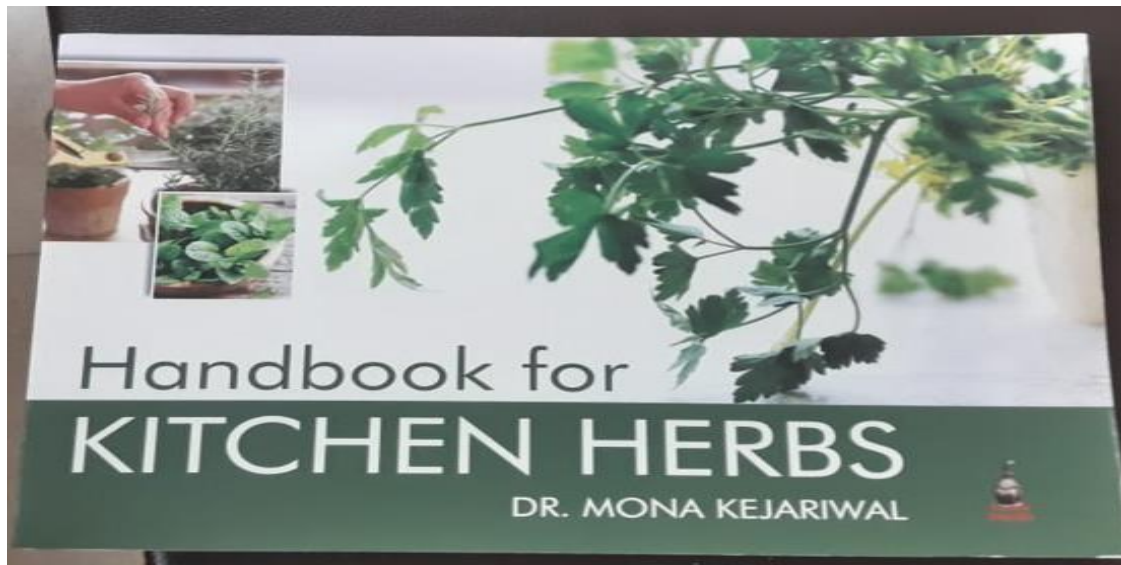
WITH STYLE AND INTEGRITY



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This handbook is an outcome of an online assignment given to SYBSC Botany students as a part of their curriculum. During pandemic since students are at home and missing the actual experimentation in laboratory, an effort was made to make them aware about the various herbs found commonly in the kitchen and to prepare a poster about one herb. During the formation of poster, the students have also learnt various open-source software like Microsoft excel, Canva, Draw.io, Jam board etc. Then finally it has been decided to link the whole idea with Ritucharya: an Ayurveda practice of seasonal regimen. We dedicate this book to the age-old practices of grandma's knowledge which have been transferring to generations to follow the consumption of herbs in right season to get the maximum benefits. We are thankful to the faculties of Department of Botany and Principal Dr. Neha Jagtiani to motivate and has been a source of inspiration always. DBT STAR College Scheme from Department of Biotechnology, Government of India, is playing a central role to encourage teachers and students to initiate such innovative idea with the financial and infrastructure support from the grant.



**Dr. Mona Kejariwal** is Ph.D., NET CSIR, GATE, Ph.D. guide in Botany and M.Sc. Recognized teacher for subjects of Botany and Life-sciences and assistant professor in RD & SH National College, Bandra, Mumbai, India. She is actively guiding Ph.D. students in the field of Antioxidants, phytochemical profiling of Medicinal plants, Antimicrobial activity, plant genomics, Model Plant Systems. She has been awarded as Green Crusader Award of UN by Bhamla foundation, Mumbai for year 2019-20. Recently published two books for Post graduate M.Pharma students in Pharmacognosy. Consulting as a Mentor for private Herbal cosmetics company for formulation development and testing. Recently she got one patent granted and filed two patents, published 15 research articles in peer reviewed reputed journals in the field of Potable Water testing, phytomedicines, Waste Water treatment, Plant Model systems, Phycology and Antioxidants. To augment undergraduate creative thinking, experimental skills and strengthen the research infrastructure in college at undergraduate and postgraduate level working diligently as Coordinator of DBT STAR College Scheme and Principal Investigator of DST FIST PG level grant. She has given lectures at international and National Conferences, presented papers and arranged International and National Conferences, Colloquium and Symposium as an organizing Secretary.



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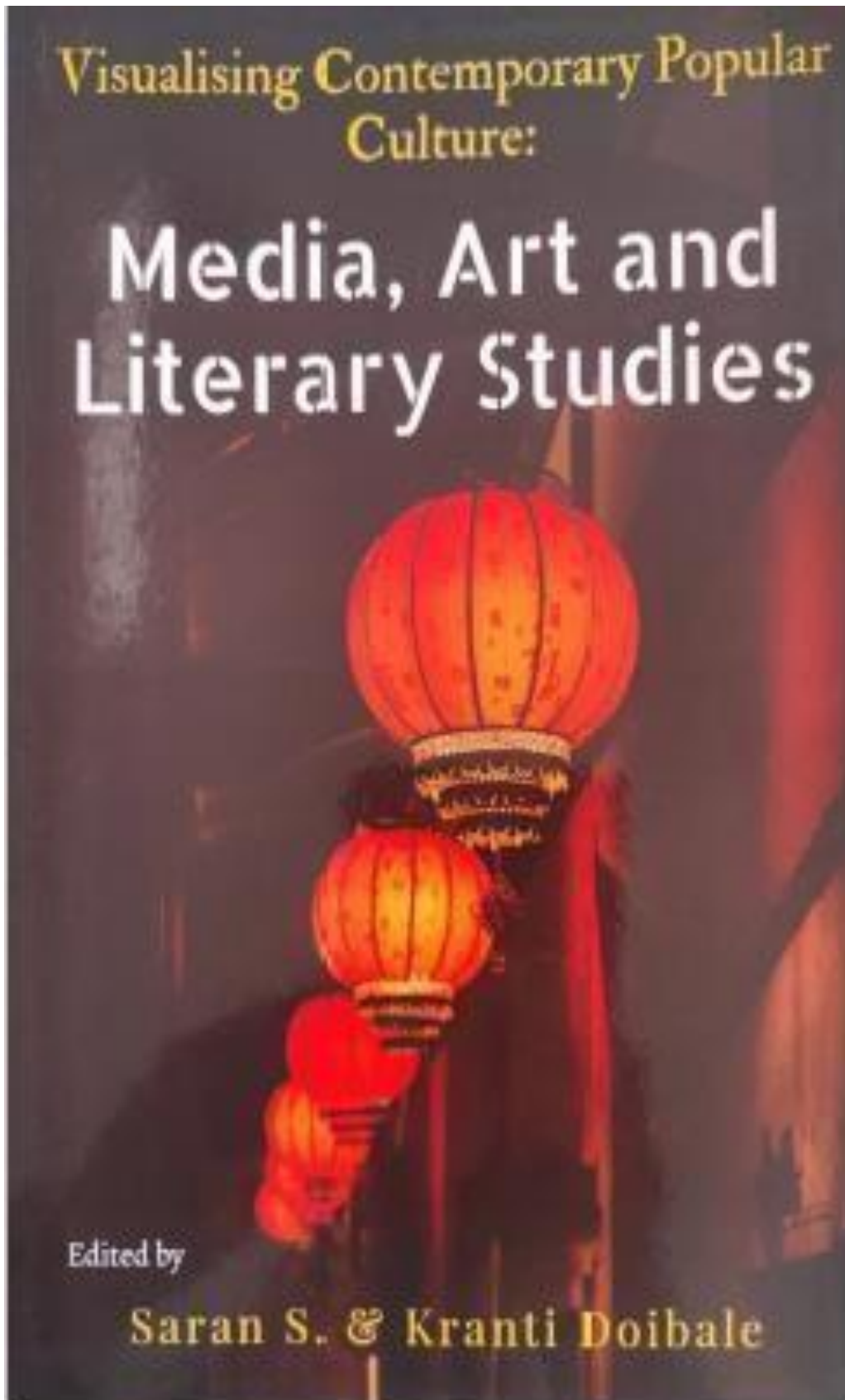


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Social, cultural and literary engagements demand robust critical, theoretical, and creative interventional observation that promotes learning, research and reform. Given its credence, the book, *Visualising Contemporary Popular Culture: Media, Art and Literary Studies*, attempts a pioneering approach to studying cultural artefacts such as media, art and literary studies in an attempt to dismantle and deconstruct the term 'popular culture' which has been defined in homogeneous frames since the late twentieth century, into a varying multitude of matrices. Furthermore, the academic articles enclosed attempt to provide a stout critical assessment of how human societies use, abuse, and subvert the aforementioned mediums to voice their struggles and create their meanings and messages, thus, effectively visualising popular culture as a discursive construct. While encompassing the keen and diligent research findings of several research scholars, the book aids in underlining the significant role of research in academic, social as well as, cultural evolution and advancement by positioning itself as a platform for novel perspectives and critical reflections on a variety of topics such as Contemporary World Literature, Pandemic Studies, Media and Cyberspace, Comics and Graphic Studies, Digital Humanities, Film Theory, Myth and Mythology, Cultural Studies.

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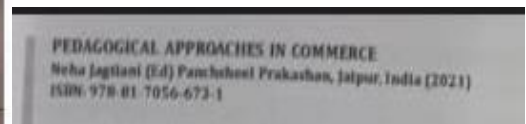
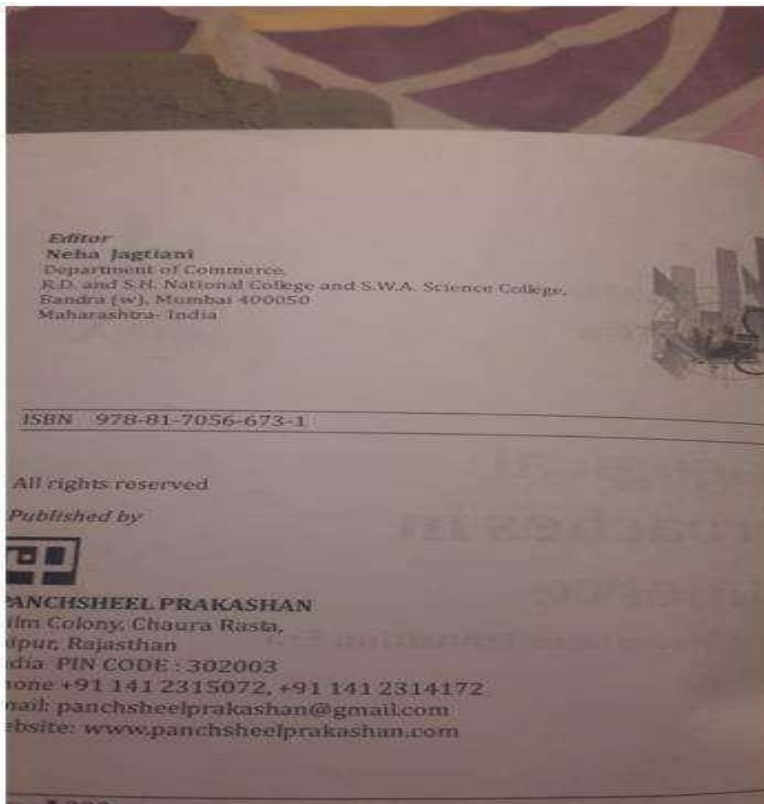
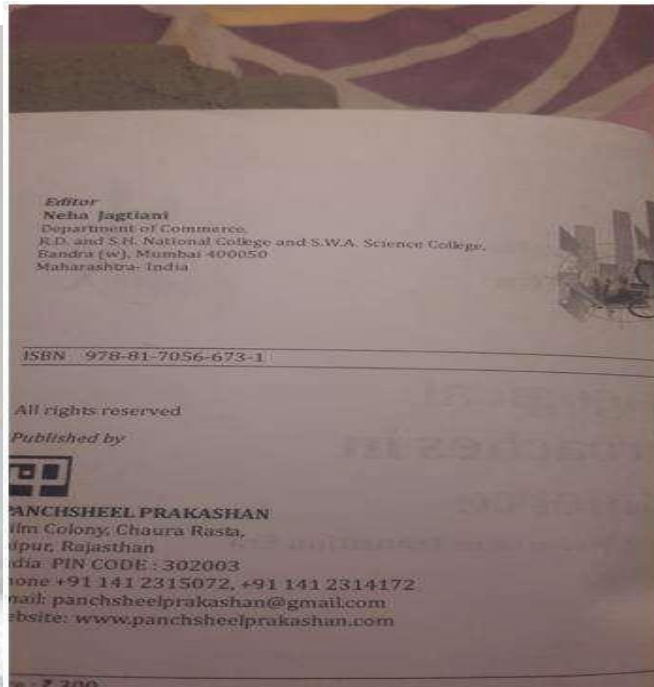
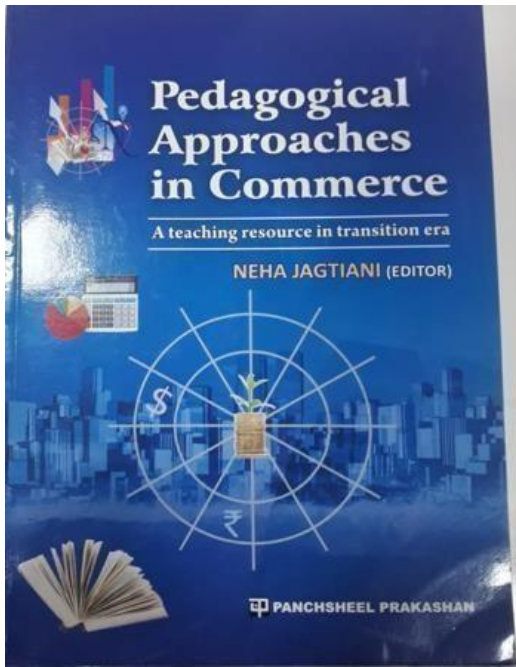


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**MODERN PEDAGOGICAL METHODS IN COMMERCE:  
STRATEGIC TEACHING APPROACHES**

•  
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**INTRODUCTION**

Commerce as a subject has originated simultaneously with the origin of the trade itself, long before the introduction of money or currencies in trade. From the cradles to civilization to the cohesion of various civilizations, commerce was always a center of gravity for all sorts of explorations and trading. It is believed that Global commerce began in the 16<sup>th</sup> century and since then it has seen a long course of evolution from maritime commerce (m-commerce) to E-commerce. It will not be an exaggeration to state that commerce is a global subject where knowledge, theories, practices, and wisdom of the entire world have been utilized for its enrichment. The constantly changing concepts in commerce subject and continuous augmentation of micro and macro-level changes have resulted in the evolution of commerce as a complex subject for education. This subject is so interwoven with all the processes of life, it becomes the priority choice among students and attracts a large number of students worldwide.

The students opting for commerce always have a professional approach and consequently, their expectations from education are always direct and objective oriented. The growing trade, business, continuous inflow of novel business practices, expanding trade borders, and mode of trades have always posed serious challenges on commerce educators. To withstand the expectations of a learner, it is essential to keep pace with the dynamics of commerce subject.

A commerce education should not only aim at imparting knowledge of the subject but should also ensure inculcation of professional competencies essential for a career in commerce. It is a common but exclusive expectation from commerce education that it must give a graduate some special aptitude and personality traits.

A commerce teacher is not only expected to teach the knowledge of the principles and practice of commerce but to inculcate the ability to understand and analyze the various operation of the world of business, interpreting commercial data, dealing with specific situations, and



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38) Dr.Kiran D.Sawant

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**Socially Marginalized - 'City Within A City'**

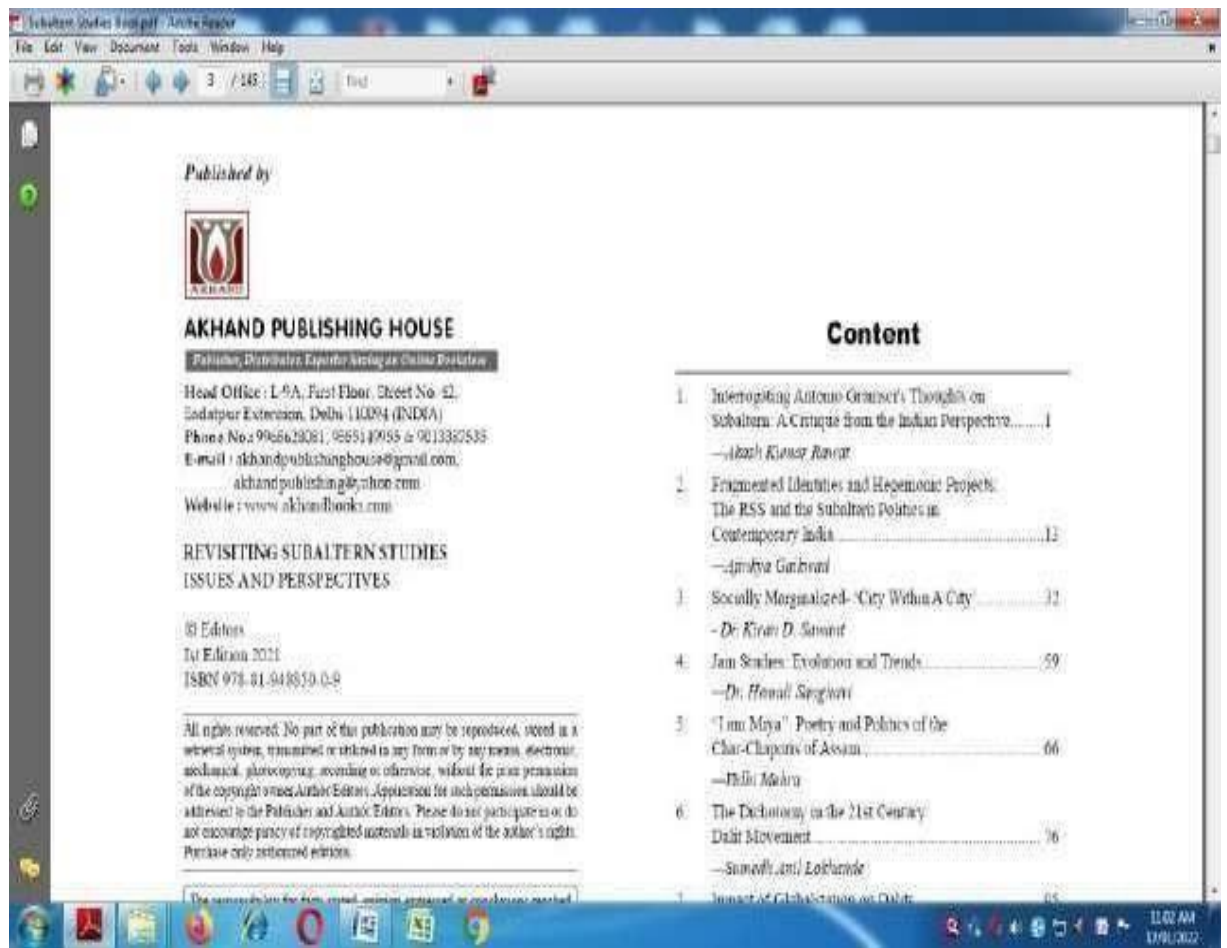
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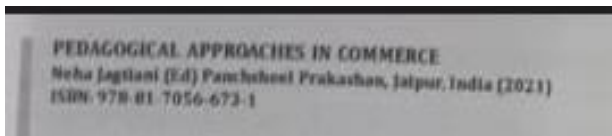
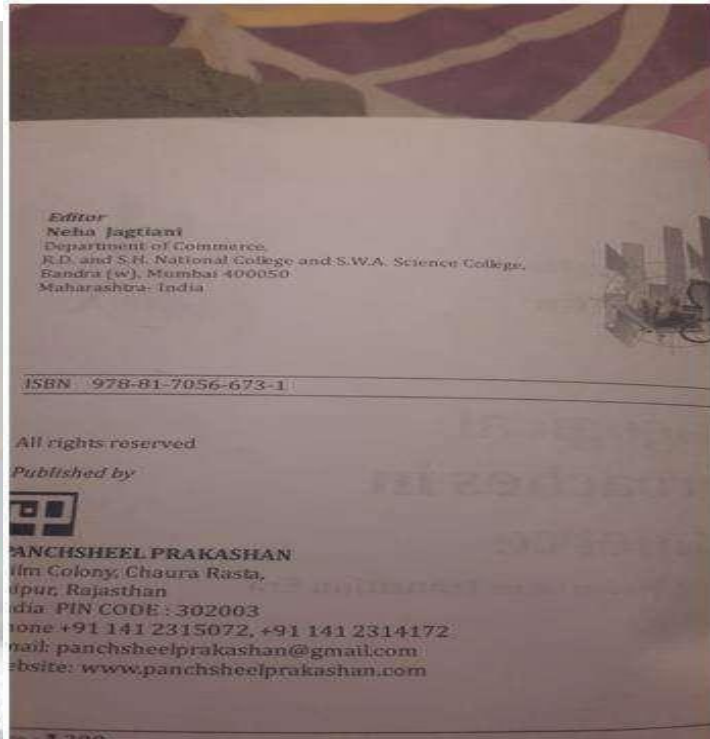
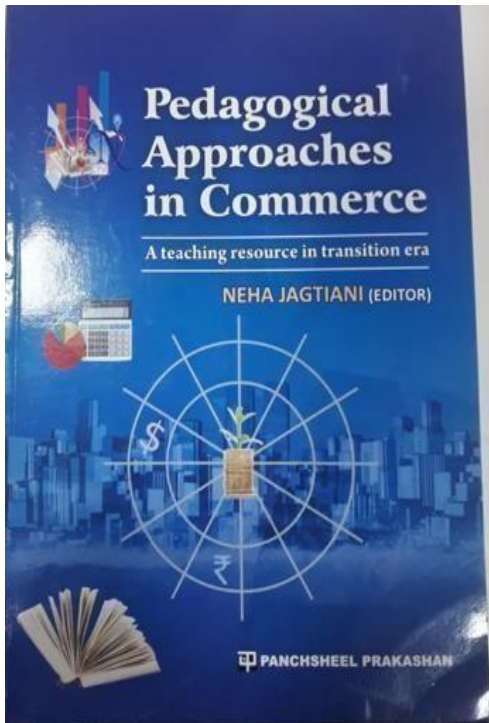



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EXPERIENCE AND PRACTICE BASED PEDAGOGICAL APPROACHES FOR COMMERCE AND MANAGEMENT

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Non-attendance in Higher Education is not a new concept. In recent years with the exponential growth in digital learning, physical attendance has become a more complex issue. Educators are continually advocating an engaging teaching approach for students as a means of enhancing learning. Nowadays students are more focused and in commerce-based subjects, they believe in a lot of practical learning. Many students feel that what is taught in the textbook is something that can be read and understood and hence they do not attend lectures.

Students in the commerce stream have subjects like Marketing, Accountancy, Finance and Management. In these subjects, it's increasingly important that the teacher delivers content in such a way that the student is required to attend class. The millennial generation is very future and will spend the time where they get value in return in form of knowledge apart from the mandatory attendance by college/university authorities will help in getting the students back to the classroom. Most of the students in Management take up internships in companies. The teacher could take reviews of the internship regularly in the class and give the problems faced by the interns as a live case study to solve as that will give a practical side to the theory learning as students will be more interested in knowing what are the actual difficulties faced by companies. The teacher must understand the needs of the student and accordingly tweak the teaching methodology. Today students are extremely career-focused and hence most of them want to build up their resumes, learn and enhance their careers.

Students are not interested in mugging up textbooks or header points. In Management Commerce, the student would come to class for two reasons

- If attendance is compulsory,
- They are given knowledge which they wouldn't get outside the classroom.



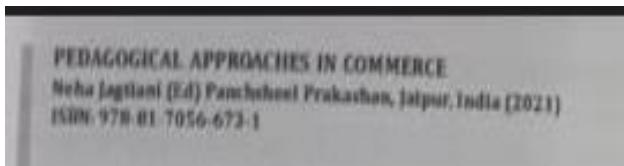
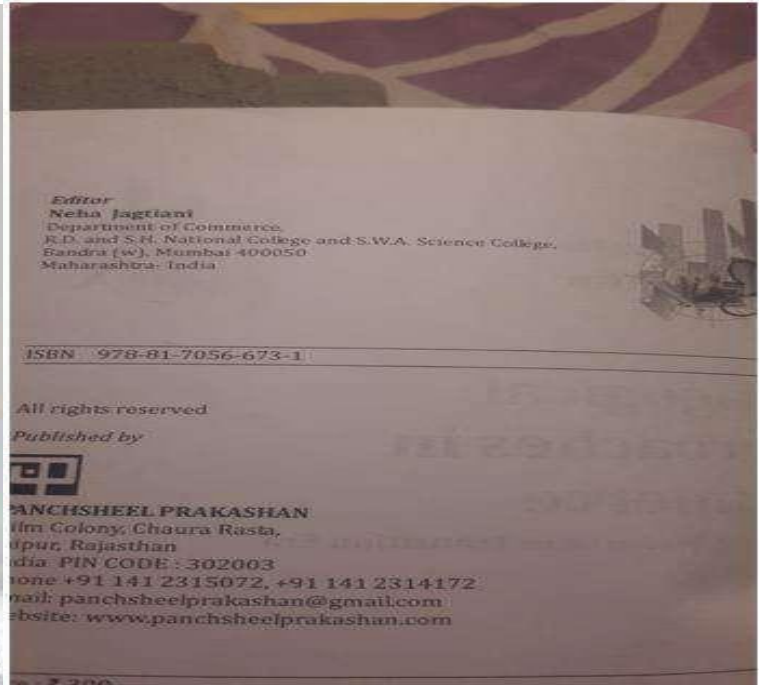
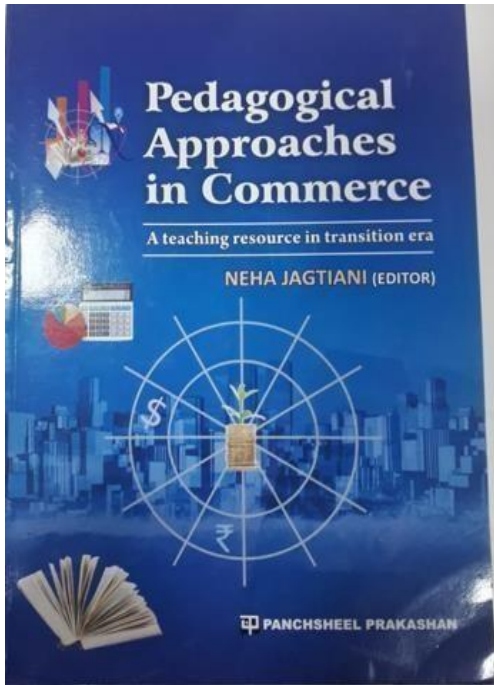
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PEDAGOGICAL APPROACHES IN COMMERCE  
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## IMPROVING LECTURE ATTENDANCE OF COMMERCE STUDENTS FOR BETTER ACADEMIC PERFORMANCE

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### INTRODUCTION

The attendance of students especially in courses not involving practical like Commerce and Management is showing a declining trend. The paper firstly tries to find out the possible reasons for the decline in attendance. The paper also suggests a few steps that can be undertaken to improve the attendance of students and attract more and more students towards attending lectures. Each suggestion has been analyzed and an attempt has been made to study the impact of each step/suggestion on the teaching-learning process and also listing the shortcomings associated with each step. The paper also discusses the modern teaching tools available at the disposal of the educator to make the teaching-learning process more interesting, interactive, and fruitful. Of late, the attendance of students has been on the decline, more particularly the attendance of students in the Commerce section.

### REASONS FOR DECLINING ATTENDANCE OF THE STUDENTS

The few possible reasons for the declining attendance of the students are stated below:

#### Dependency on coaching classes

Right from his early childhood, the student is exposed to the culture of coaching classes. To ensure that their ward can compete and survive in this highly competitive world, parents enroll their children in coaching classes right from their school days and this dependency on the coaching classes continues up to their UG and PG level studies. In the Degree College, the students have a mindset of enjoying their college life, thereby they remain frequently absent from the lectures conducted in college. They feel that their coaching classes will help them to sail through the degree and university examinations.



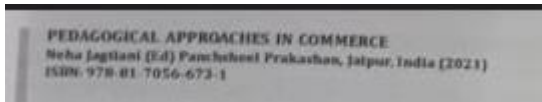
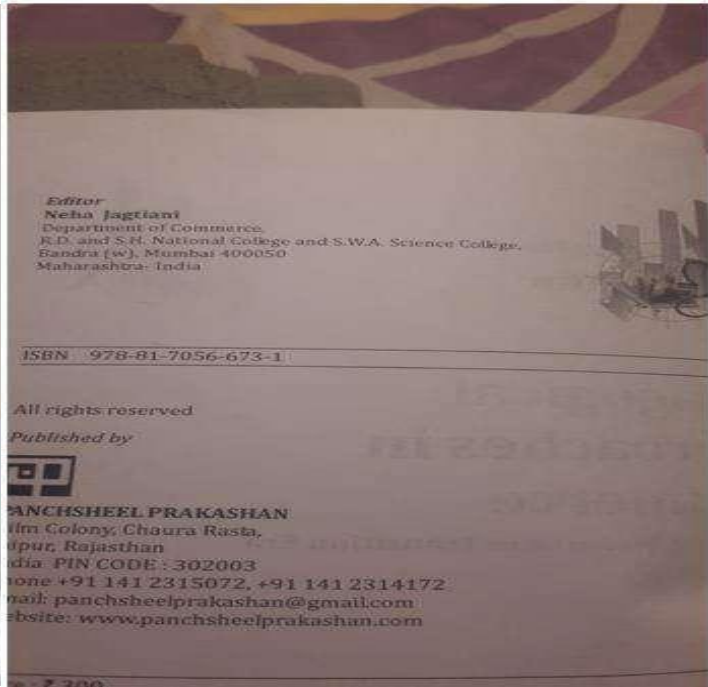
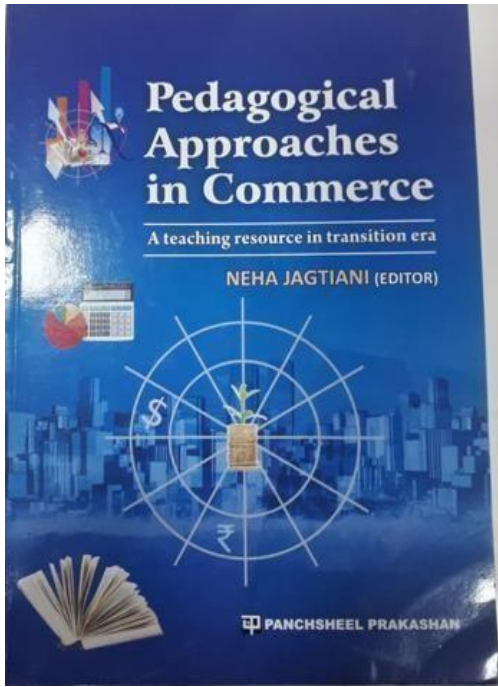
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**PEDAGOGICAL METHODS IN TEACHING ACCOUNTING**  
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Accounting is Pro-Historic, but the profession in accountancy like Chartered Accountant, Company Secretary, Portfolio Management is a' la mode. In the world of digitalisation, accountancy has an intrinsic value in the construction of goodwill, brand appreciation, in financing monetary values. Accounting is an integral part of the economy as it depicts the financial position of the country. Students of Commerce must inculcate accountancy knowledge, and international accounting standards, amendment in the Indian Companies Act, amendment in taxation policy. Teaching Methodology plays a significant role in inculcating accounting knowledge, understanding, and application of accounting principles in the practical world. Adapting methodology and application of the new methodology is the big challenge in front of the teacher. The traditional methodology is the prime source of teaching accounts in the school. But looking at the current market scenario after globalization and liberalization, the requirement of the industries has drastically increased with multifold of accounting practices, methods of operational activities, the scale of operation, modus operandi. In this chapter we have described fundamentals of accounting teaching techniques like lecture cum discussion, Case study, seminar, Annual General Meeting, field visit, internship, etc. to make accounting concepts practical to learners.

**INTRODUCTION**  
 Teaching methodology plays a significant role in inculcating accounting knowledge, understanding, and application of accounting principles in the practical world. Adapting methodology and application of the new methodology is the big challenge in front of the teacher.

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## 14. Opportunities and Challenges for Seaweed Cultivation in India

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## ABSTRACT

Seaweeds belonging to Chlorophyta, Phaeophyta and Rhodophyta are marine macroalgae growing in shallow sea. Seaweeds has been used successfully in various countries for the purpose like food, fodder, bio-fuel and many more. There are various companies which are already in business of seaweed products. India has a large population residing and being dependent on its ocean. Seaweed industry has very high potential for employment generation. The current chapter deals with figuring out scope, cultivation and harvesting practices, industry strategies, marketing schemes by reviewing the applications and utilization of seaweeds across the world. We have discussed some of the challenges and limitations in the Indian contest. During our survey it was revealed that the awareness is required about seaweed and their scope. With this chapter we can conclude that there are various schemes and opportunity to encourage seaweed utilization and cultivation. A special focus is laid on employment generation activities



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# 1. Domestication of Fungi and their Application

**Kejariwal Mona\***

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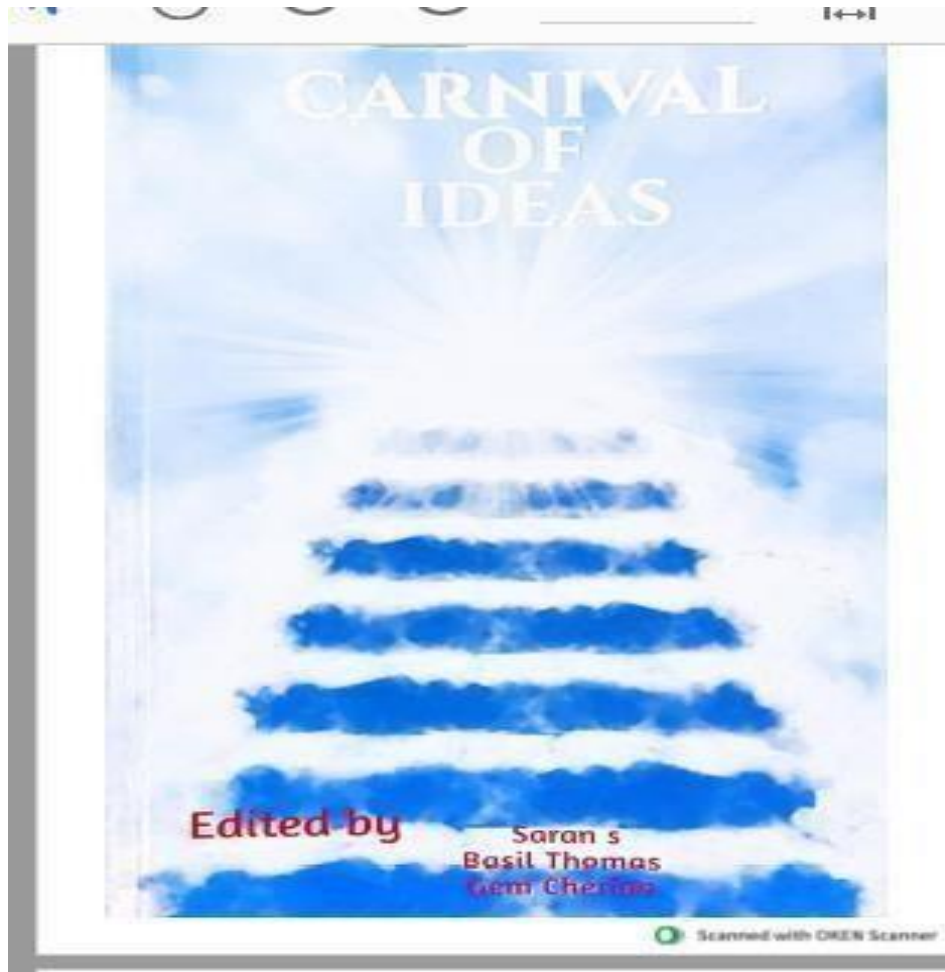
## ABSTRACT

A well-known fact that domestication leads to profound changes in human civilization. During this period, humans used breeding strategies to select desirable traits in crops and livestock. Archaeological and genomic records suggest that this led to genetic and phenotypic changes in the fungal population. During the agricultural revolution, like the cultivated crops, there were desirable changes in fungal strains also but this domestication of fungi was not understood fully as reports were focusing mainly on plants and livestock's breeding experiments. It's fascinating to know the long journey of fungi in human settlements. Fungi are ideal organisms for understanding the domestication of eukaryotic organisms for application in human settlements including food processing, medicines or food products. Though fungi have small genetic make-up and simple eukaryotic structure, they still consist of complementary easily identified ecological niches and small life-cycle which is again very rich with an enormous diversity of spore formation within a single taxon, therefore many are acquiescent to experimental



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# Tabish Khair's *Jihadi Jane*: A Narrative of the 'Second Sex' Burden

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## ABSTRACT

The present research aims at exploring the notions of female agency in militant extremist organizations with reference to Tabish Khair's novel *Jihadi Jane*, focusing upon the isolation and alienation faced by young second-generation diasporic Muslim women in the 'West'. Closely following the life-journey of Aqeena and Jamilla, from being young marginalized Muslim Asians in England to



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## An Eclectic Approach to the Teaching of Tenses in English

Sachin Ramesh Labade & Kranti Mohan Dolbale

Several Second Language learners of English, understanding the language's oral system and correctly employing it, particularly in spontaneous production, find it a challenging task to accomplish. As a result, most learners face difficulties in using appropriate tenses in oral and written production. However, mastery of the English tenses is a crucial competence to support the four language skills—listening, speaking, reading, and writing. Therefore, effectively teaching the appropriate use of tenses has long been an area of concern for ELT scholars and teachers. The present book focuses on addressing the issue of teaching communicative grammar in general tenses in particular, in the absence of technology.

### English Language Teaching in India

English Language Teaching (henceforth, ELT) in India is the world's largest bureaucratic enterprise of its kind with a history of more than 300 years. The experience of learning and teaching English as a non-native language is so strong. Widdowson, as quoted in Chaudhary (1998), remarks that native English speakers should not claim expertise. It becomes significant due to not only its centuries-long existence in India but also its valuable contributions to the teaching of English in general. Chaudhary (1998) observes that many methods in ELT were invented in India. For instance, the special purpose bilingual glossaries were introduced firstly in India. The teaching of M.A. in English began in Britain in 1857 and in India in 1858. The bilingual and grammar-translation methods have been used for over 200 years. Michael West's 'Reading Method' was a product of his long work in Ceylon and Burma. The 'Direct Method' was also used firstly in India in the mid-19th century by Alexander Duff, a Scottish priest.

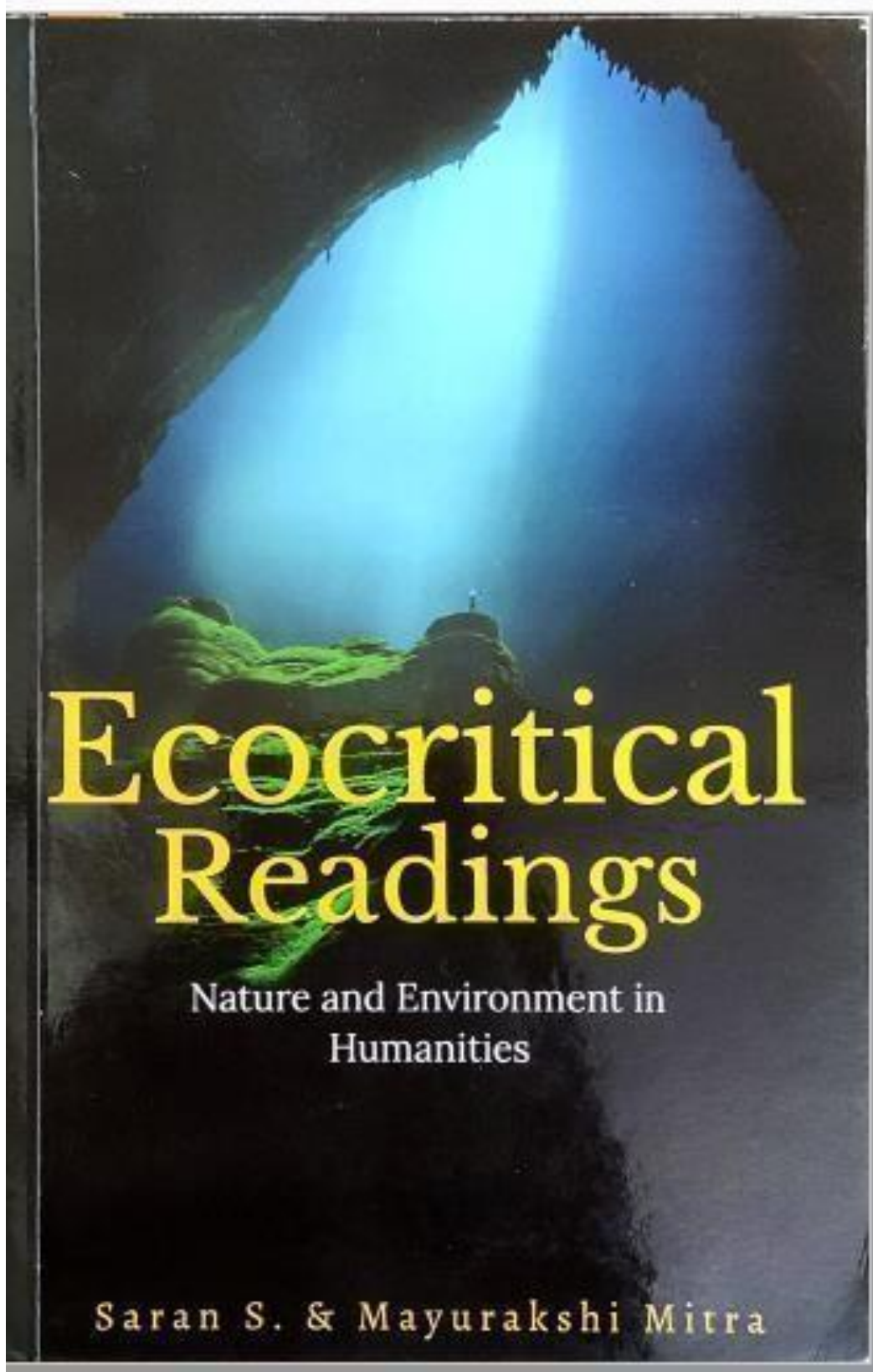


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'ecocriticism' reflects on the relationship between environment and human life.

**Saran S.  
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# Annihilation of Caste: Ambedkar's Dream Unfulfilled

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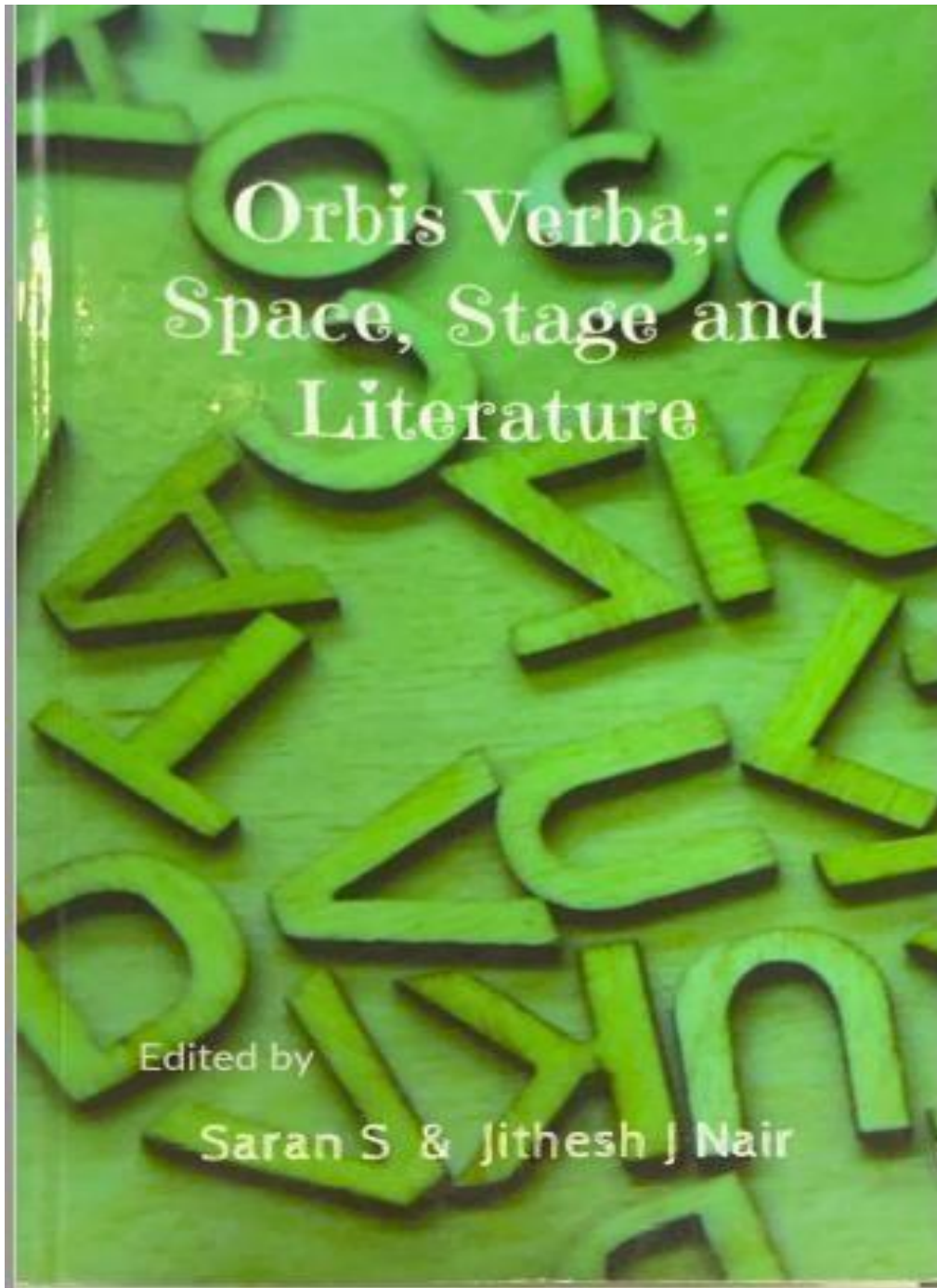
## Abstract

Dr. B. R. Ambedkar's relentless efforts to transform India into an egalitarian country and the people of India to represent the concept of Vasudaiva Kutumbakam have been legendary; whether in his works, his speeches or his actions. "The Annihilation of Caste" is an exemplary of his devotion to the cause of an equitable society. He has logically set his argument against the entire hegemonic structure of the caste system and has pointed out how this system is a great impediment on the road to progress. As a great thinker, he



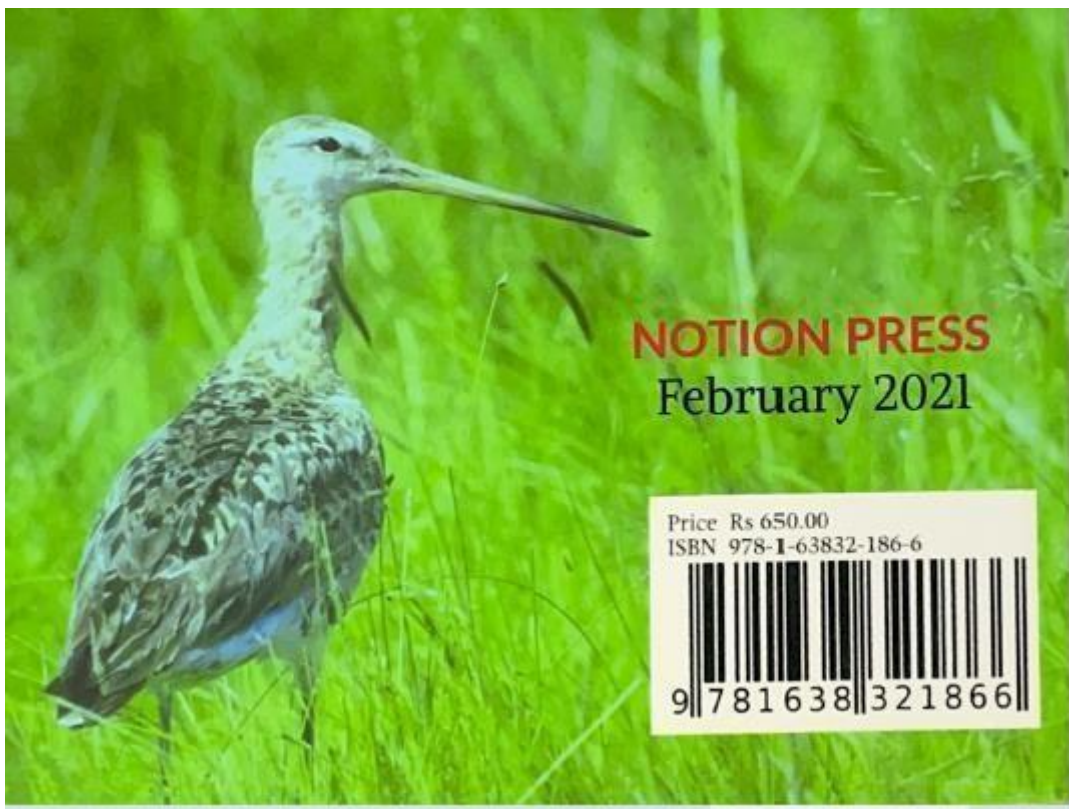
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# Narrate and Relate: Amitav Ghosh's *Gun Island* through the lens of Neo Historicism

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## ABSTRACT

Climate change is a resultant of the systematic degradation of the earlier abundant but now depleting resources of the Earth. Amitav Ghosh's works have been constantly championing the cause of creating awareness about the impending calamities that are tapering humanity towards its end. *The Gun Island*, Amitav Ghosh's latest piece of fiction rests heavily on the theme of climate change owing to environmental degradation and global warming. He has brought his narrative to life by invoking the age

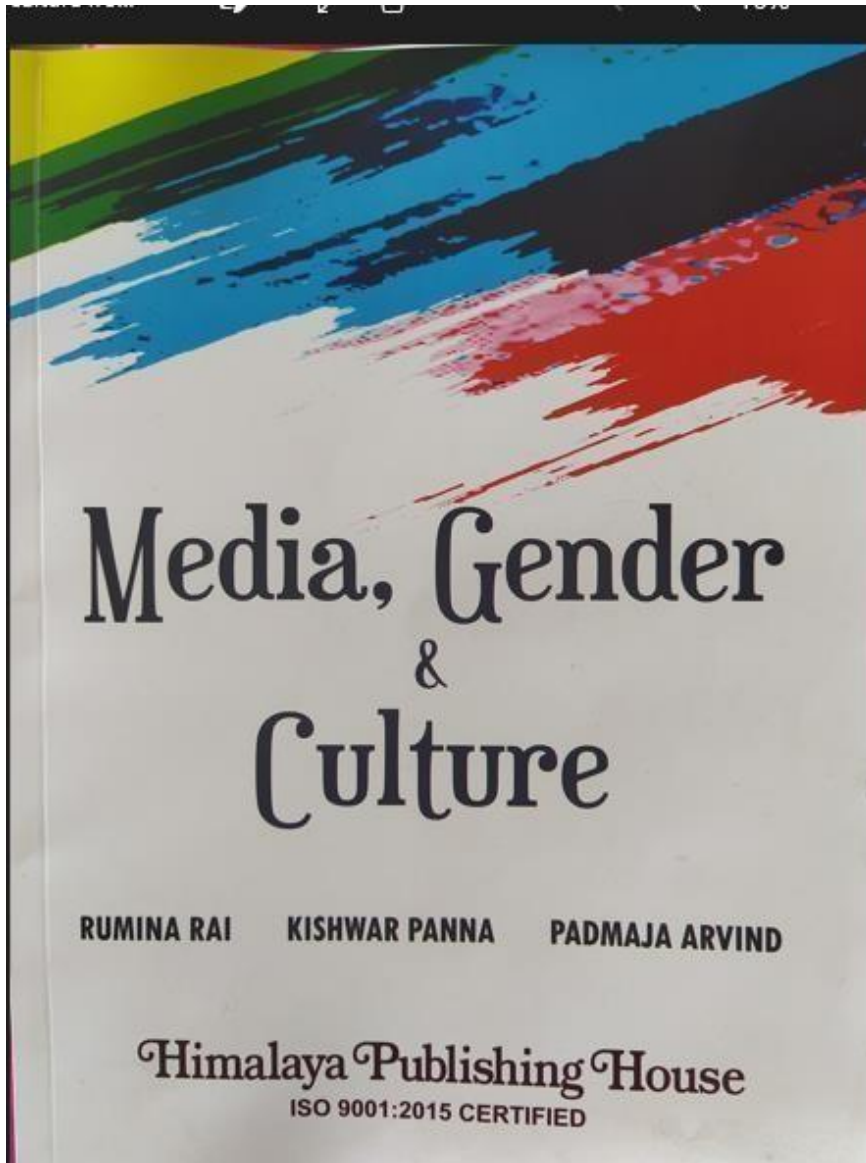


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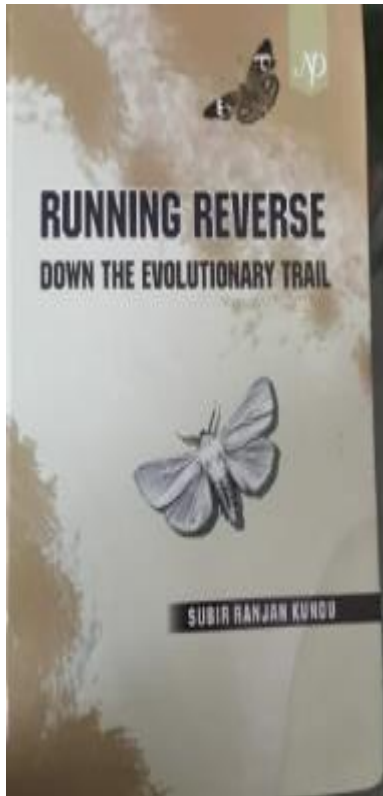
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internal and external changes of its environment, which triggered its change in the food pattern, being shifted from omnivory to herbivory, because an herbivorous mammal requires full-fledged functional appendix vermiform to sustain with cellulose-rich green leafy vegetables.

My best compliments to the author of this book, Dr. Subir Ranjan Kundu, that it's an urgency to cater the 'Needs' of the students in the academic institutions and a wide audience, staying outside the academic and research institutions to grasp the apparently complex conceptions of biological evolution. The way you unravel the facts will definitely inspire youths and a heterogeneous group of reader, presenting in a flawless narration of the unique perceptions of "Reverse Evolution" or Unwinding evolution. A simply mind blowing fantastic non-fiction book it is. I am awaiting to discuss all your concepts with my peers.

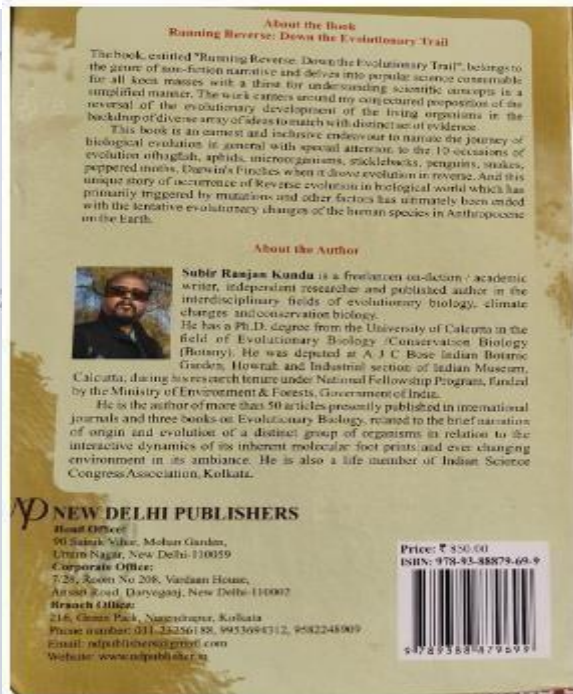
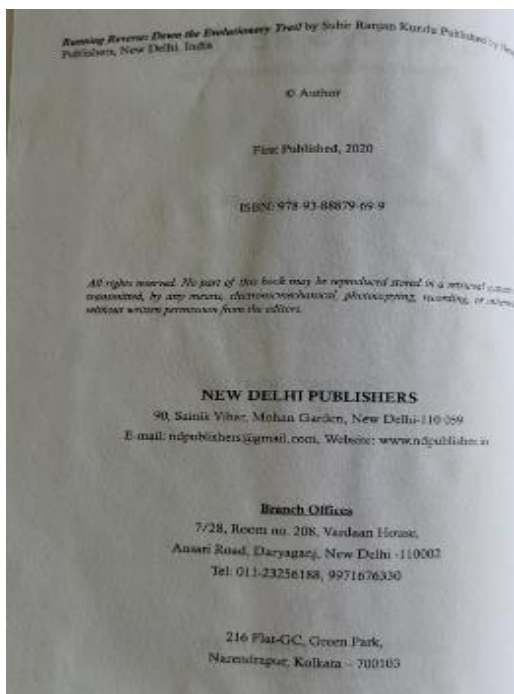
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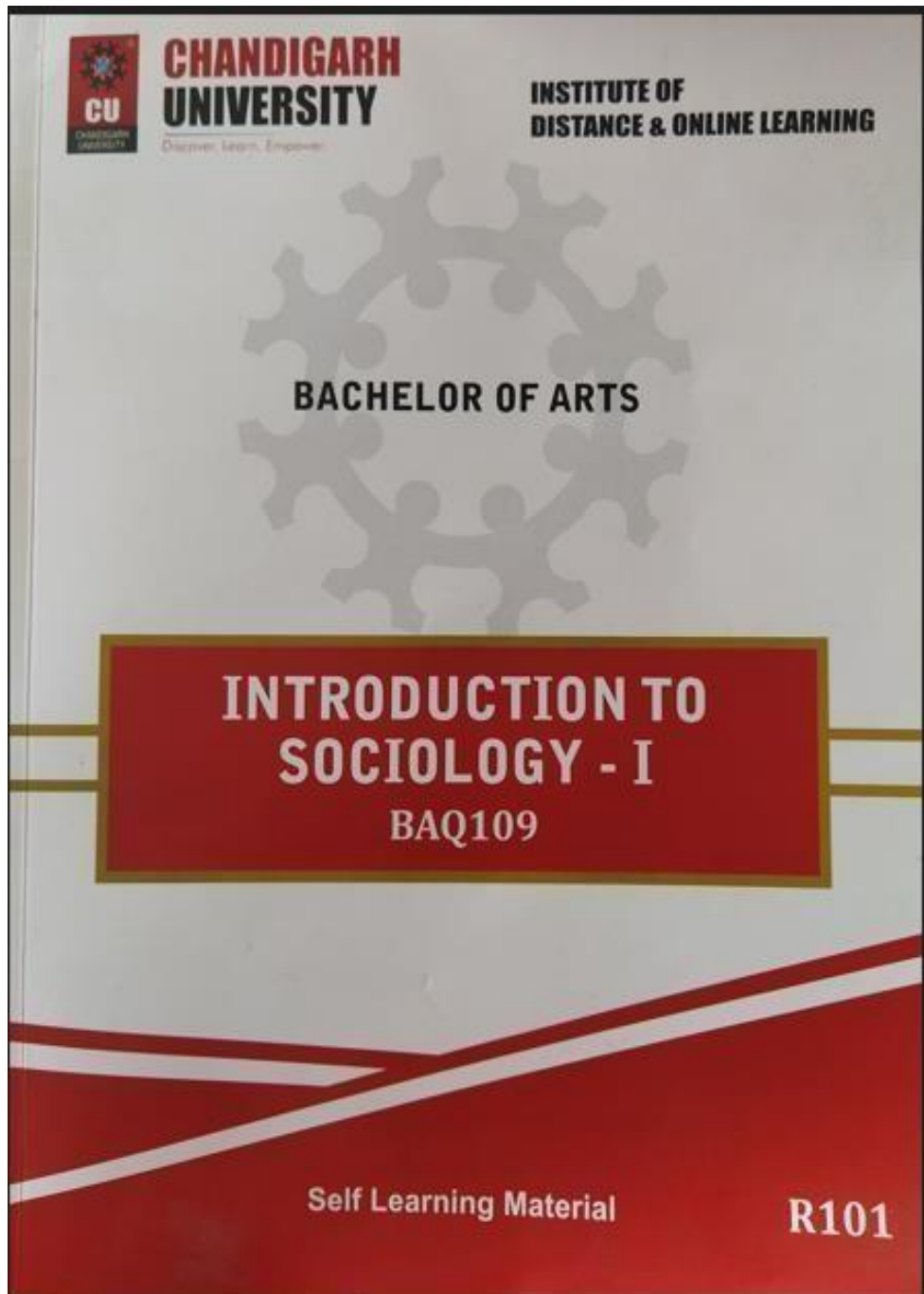


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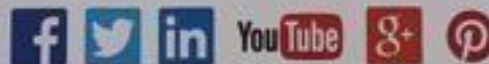
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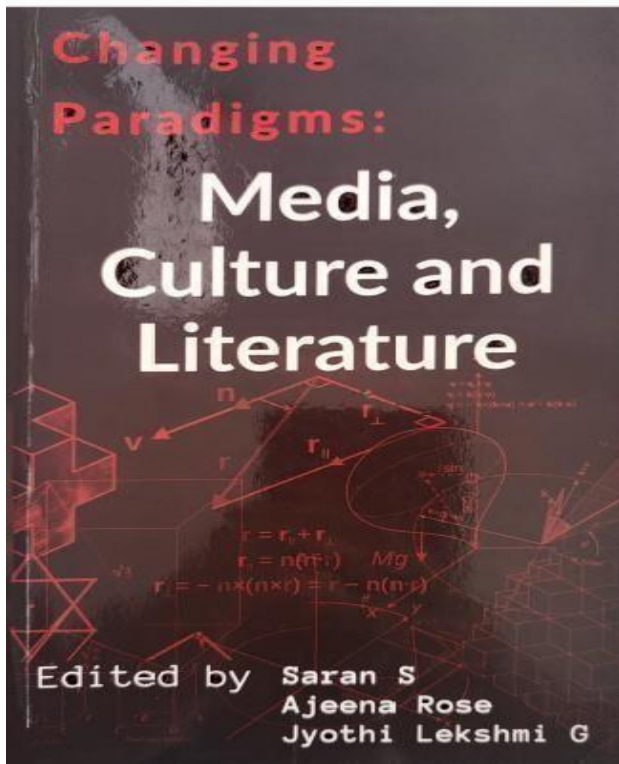
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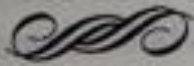


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# MASAAN: AN ENSHROUDED LORE OF SELF- LOVE IN BOLLYWOOD



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## ABSTRACT

In several world cultures, the concept of self-love is a double-edged sword. Though fundamentally instinctive and a vehicle for the security of self-validation, it may be perceived as a pattern of being self-absorbed. Mainstream



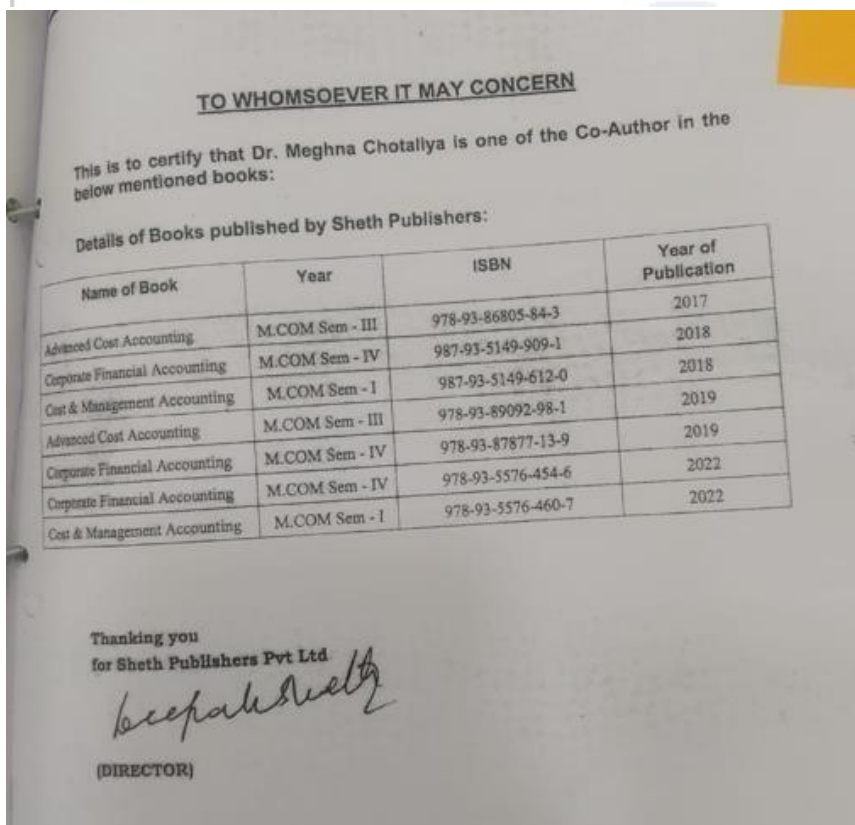
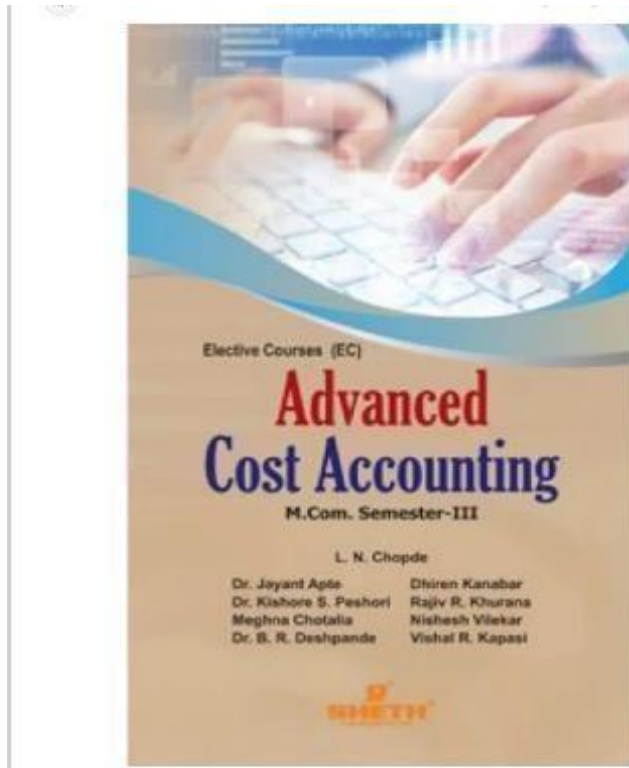
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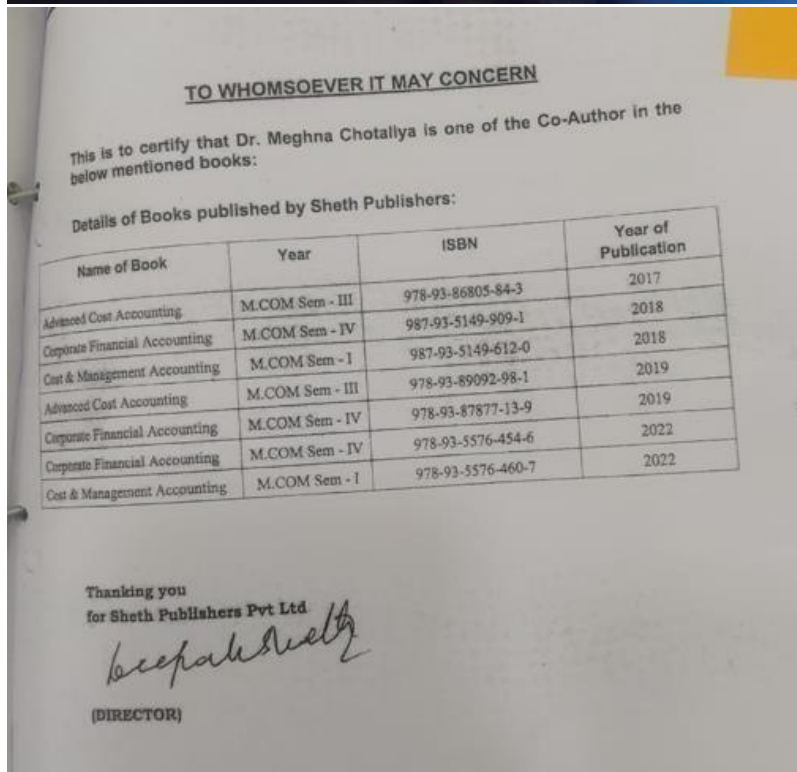
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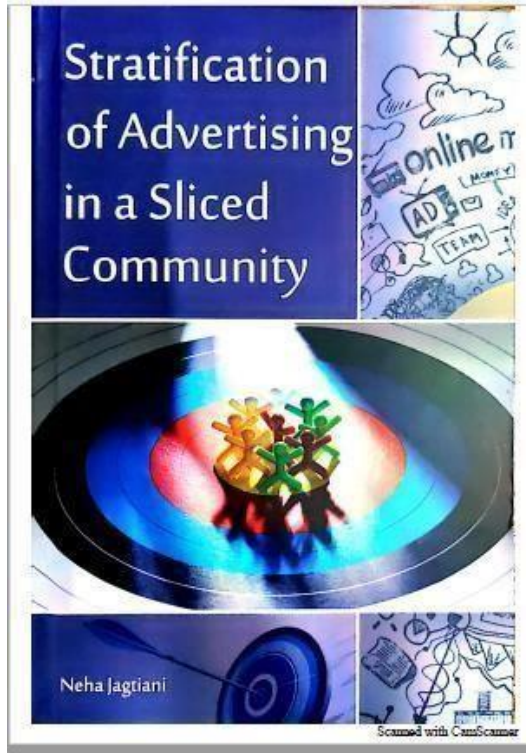
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## Stratification of Advertising in a Sliced Community

Dr. Neha Jagtiani

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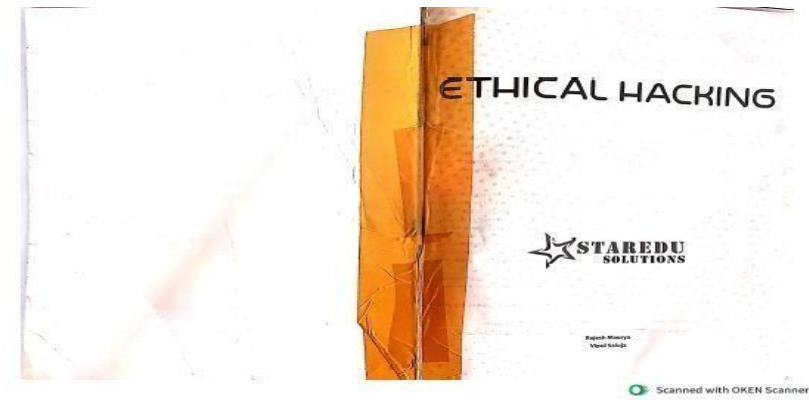
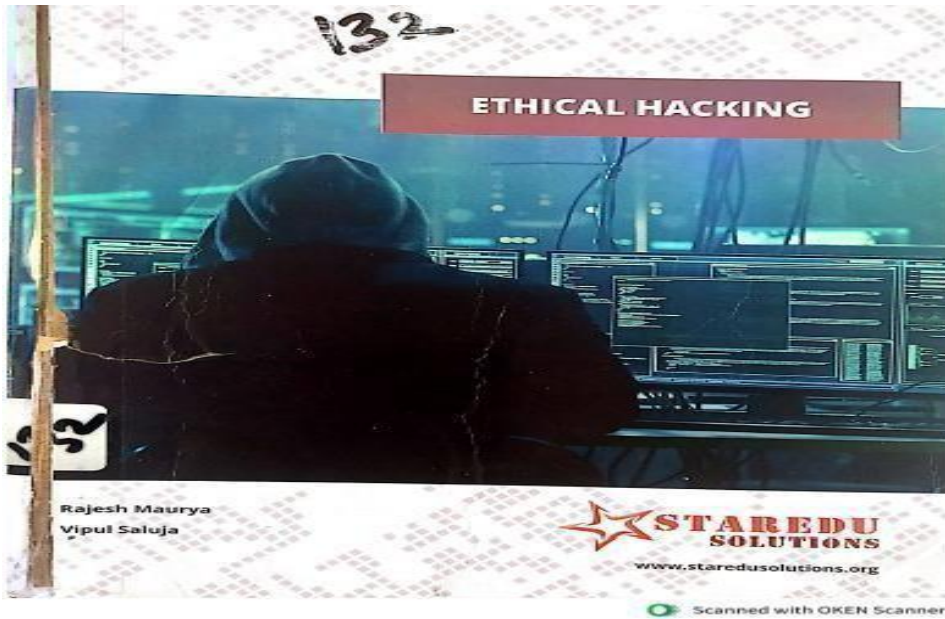


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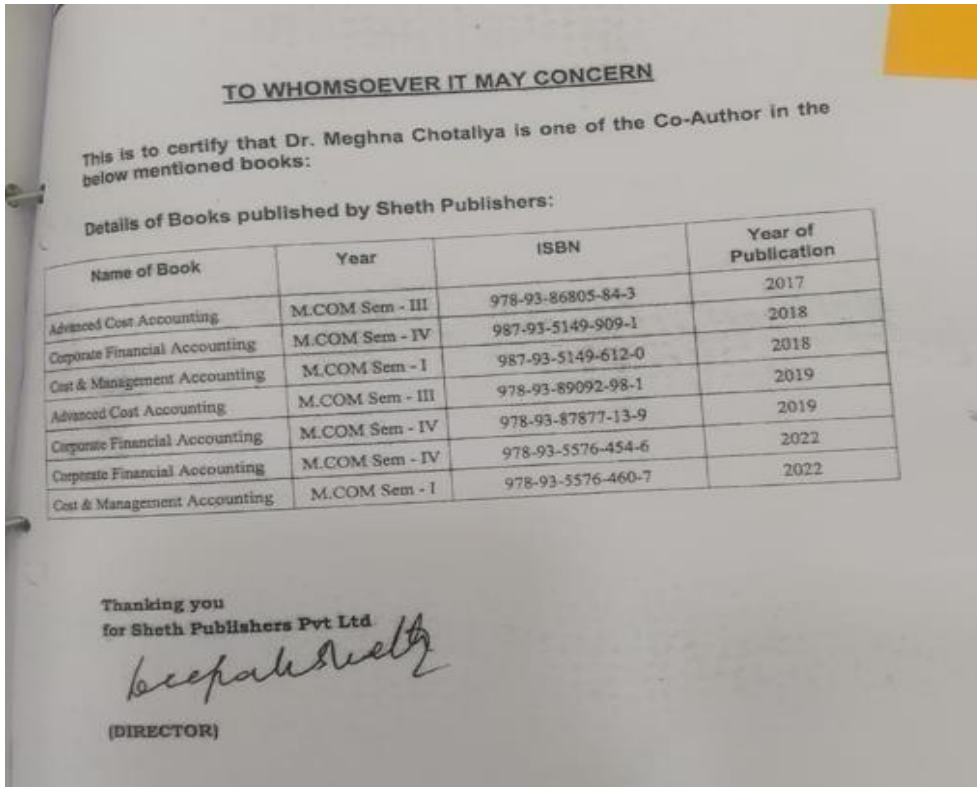
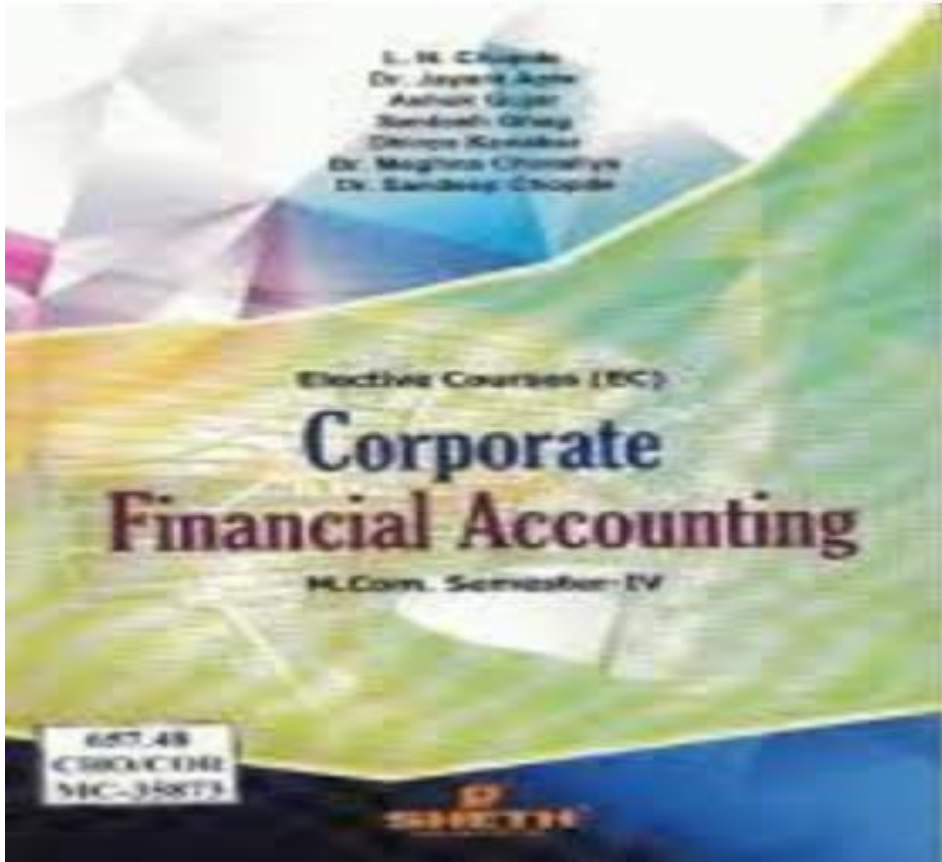
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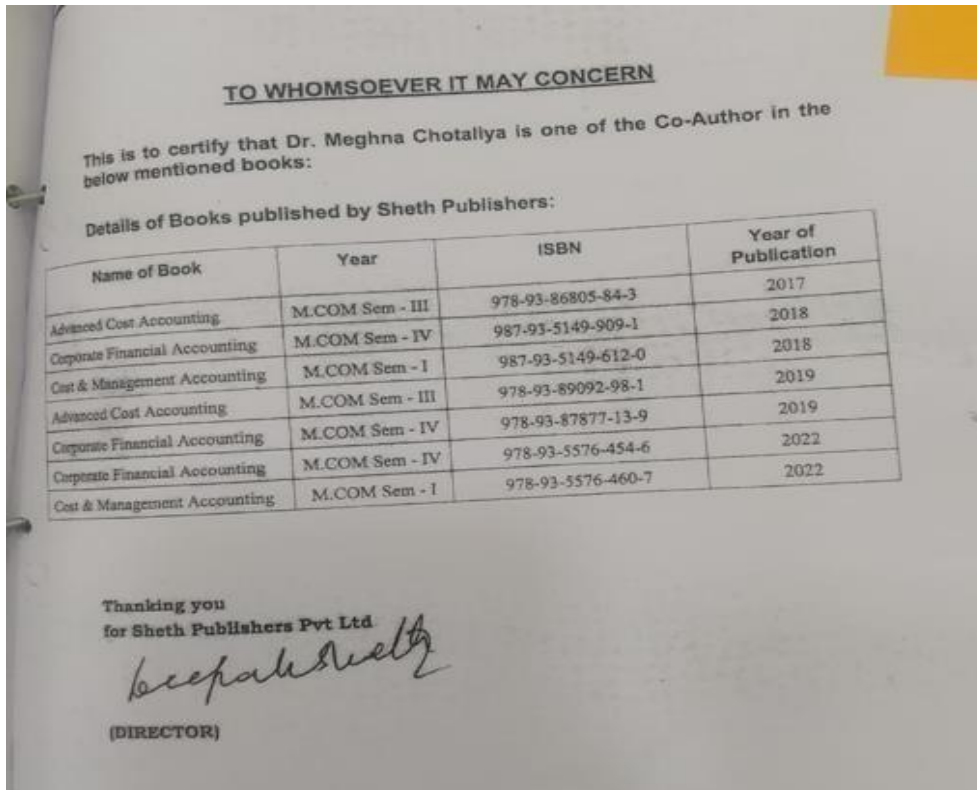
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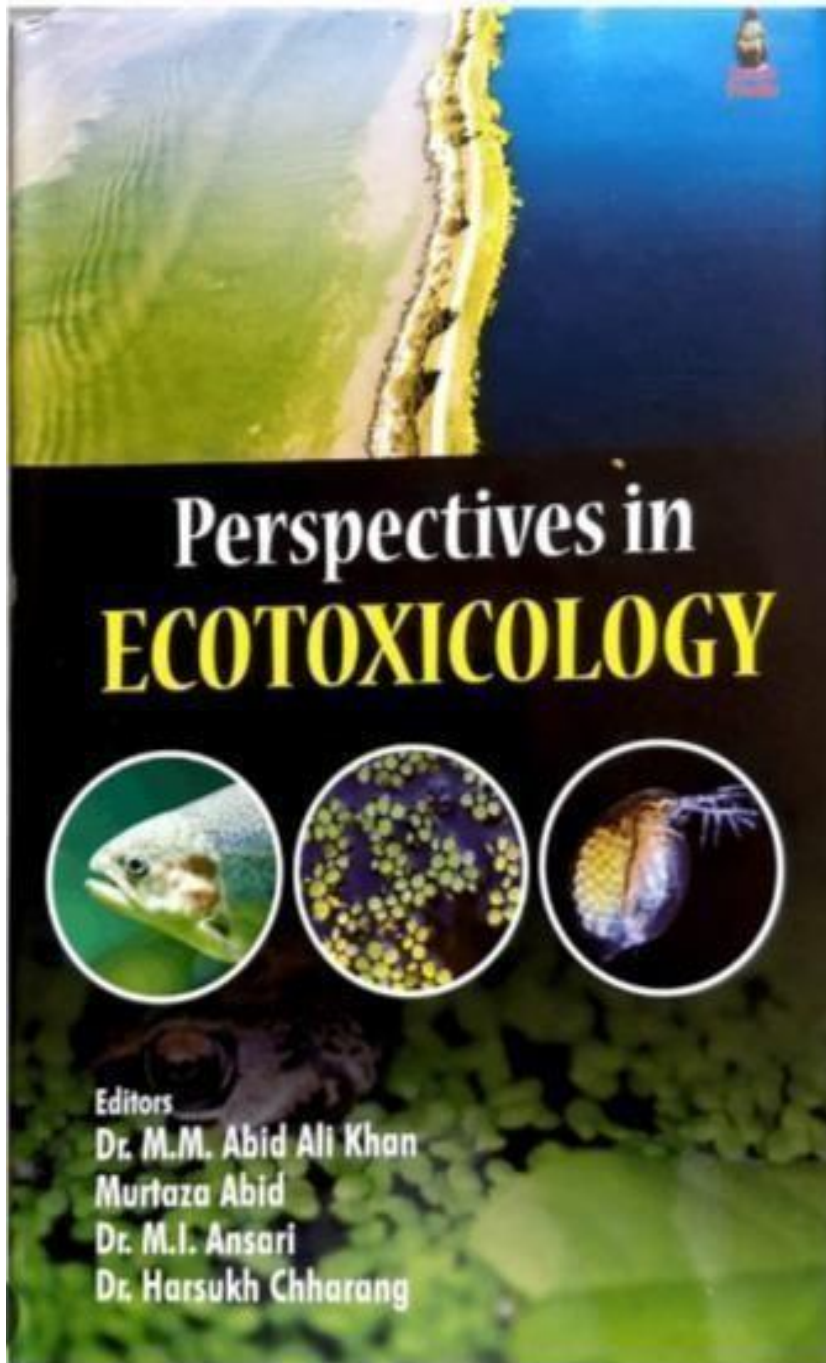
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## Heavy Metal toxicity in Microorganism, Plants and Humans

Mona Kejariwal

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### ABSTRACT

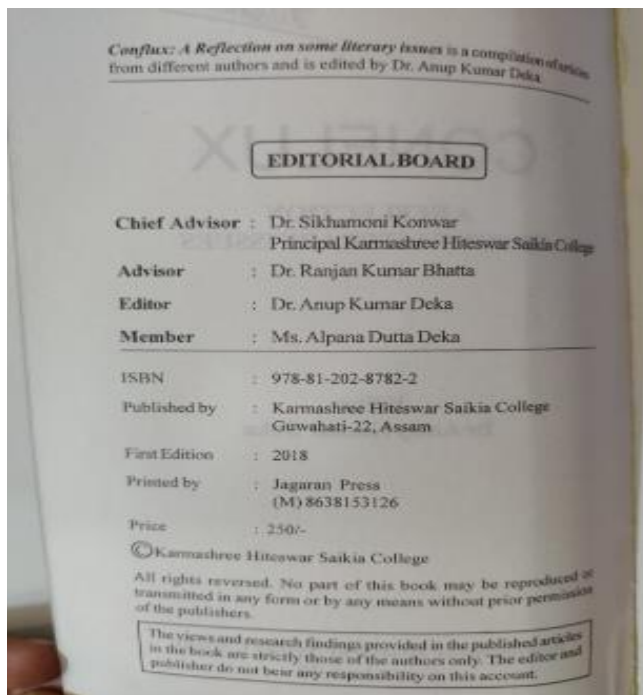
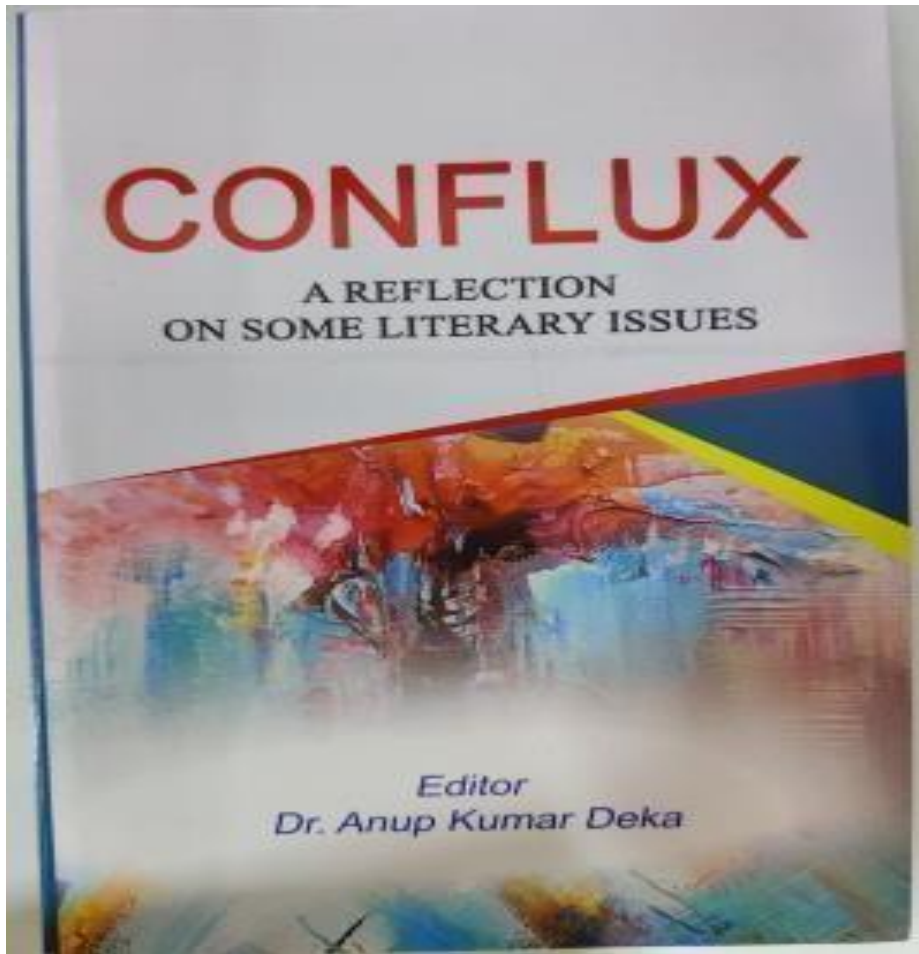
The impact of heavy metals on biological systems is well known since time immemorial. Various kinds of systems adopt diverse strategies to combat and improve heavy metal toxicity. These strategies mainly include bioaccumulation, biotransformation, bioconversions, chelation and pooling elusions. To surpass the toxicity plants as well as bacteria prefer to accumulate the metals in various cellular compartments for examples vacuoles. While in higher animals transformation into simpler form with conjugate of organic acids and other components are preferred. This chapter focuses on various metabolic process adopted by bacteria, algae, fungi, plants and humans to minimize the heavy metal toxicity. It also emphasizes on the heavy metal toxicity effects in various biological systems.

**Keywords:** Heavy Metal Toxicity, Bioaccumulation, Bioconversions and Biosorptions.



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## The Panoptic Society in George Orwell's *Nineteen-Eighty Four*

*Kranti M. Doibale*

### Introduction

George Orwell's *Nineteen Eighty Four* reflects the deep sense of shock, horror and disillusionment that prevailed in Europe during the interregnum of the two World Wars and the Great Depression of the twentieth society. It projects a negative utopia, or dystopia, of a future totalitarian society which uses terror, surveillance, and a repressive bureaucracy to exert total power over the individual. A major characteristic of *Nineteen Eighty-Four* is the Telescreen and the omnipresent surveillance, which is similar to Jeremy Bentham's Panopticon as discussed in Foucault's *Birth of the Prison*. In this context, this essay attempts to project *Nineteen Eighty-Four* as a 'Panoptic Society', a society which functions as a disciplinary institution and works reciprocally with power.



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## OLA CABS: START UP BY 2 IIT BOMBAY GRADUATES

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**Abstract:** The research paper on Ola gives a brief about the start up of 2 IIT Bombay Graduates. From an idea of providing cab services to a common man to hailing market which is valued at more than \$10Billion.

ANI Technologies Pvt. Ltd., operating under the trade name Ola, is an Indian origin online transportation network company. It was founded as an online cab aggregator in Mumbai, but is now based in Bangalore. As of September 2015, Ola was valued at \$5 billion. Ola Cabs was founded on 3 December 2010 by Bhavish Aggarwal, currently CEO, and Ankit Bhati. As of 2017, the company has expanded to a network of more than 600,000 vehicles across 110 cities. In November 2014, Ola diversified to incorporate autorickshaws on a trial basis in Bangalore. After the trial phase, Ola Auto expanded to other cities like Delhi, Pune, Chennai, Hyderabad and Kolkata starting in December 2014. In December 2015, Ola expanded its auto services in Mysore, Chandigarh, Indore, Ahmedabad, Jaipur, Guwahati and Visakhapatnam. In January 2018, Ola extended its reach into its first overseas market, namely Australia, and has plans to eventually run the service in Sydney and Melbourne - having already arrived in Perth in late February.

**Keywords:** Ola, Start up.

**Introduction:** Ola (ANI technologies) previously known as Ola Cabs was started in Dec 2010 by 2 IIT Bombay graduates. Ola

serves as an efficient taxi aggregator and bridge the gap between cab owners and commuters. Instead of buying and renting out their own cars, Ola partners with a number of taxi drivers and owners, add a touch of modern technology to the whole set up, where people could book cars at short notice through their app.

In Spanish, Hola translates to 'Hello' hence the name Ola probably to indicate that their services

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## PROFILE OF A STARTUP ENTERPRISE IN ORGANIC FOOD

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**Abstract:** To promote growth and development of the economy, a number of benefits are being offered to entrepreneurs for establishing startups. Startup India campaign drew applause from all its stakeholders. The tax exemptions, patent reforms, and incubation programs were rolled out in an effort to encouraging budding entrepreneurs who were highly skilled, imaginative and had a zeal to succeed. It offers funding, mentorship programs, and stronger IP rights. The Startup India hub, a virtual online platform, has been successful in establishing a ONE point contact/connect for entrepreneurs, thus creating the world's third-largest startup ecosystem.

The government set up a fund with a total corpus of Rs 10,000 crore (\$1.6 billion) as venture capital to support startups over the next 4 years which was meticulously disbursed by the Small Industries Development Bank of India (SIDBI). DIPP has so far recognized over 5,350 startups in India. It was projected by Assocham that by 2020 there will be 11500 firms from 3100 startups in 2014. The biggest factor being consumer growth backed by a revolution in telecommunications and internet. India will produce atleast a dozen billionaires by 2020 says Assocham. Assocham also forecasts an increase in organic food market to grow from \$402 million in 2015 to \$965 million in 2016.

**Key Words:** Startup enterprise in organic food, 'Vanjana Organics', healthy food.

**Introduction:** *Good food is paramount to safeguard society's health.*

The idea behind this startup was to improve the

health of agricultural land by encouraging farmers to adopt traditional farming techniques and create a healthier society by providing organic food to customers. The startup designed and developed a mobile application to not only provide update information to customers about the available products, but also provide them with a single portal to procure products for their monthly requirement. Once a customer places an order, the algorithms determine the availability

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Case Study Article

### WATER POTABILITY TESTING CASE STUDY OF MUMBAI REGION.

Mona Kejariwal<sup>1</sup>, Chetan Patil<sup>2</sup>, Abhishek Tiwari<sup>3</sup>, Sunil Sahani<sup>3</sup>

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**Abstract:** In a Metropolitan city like Mumbai in India safe, consistent, and reliable water supply is a challenging task. Large number of population lives in areas of Mumbai that are suffering from water quality problems and water shortages which is also studied by our institution in a community-based project CAASP (Community Assessment Awareness Survey Program). Many areas have contaminated water with fecal Coliforms bacteria as the primary contaminant of concern. There are many aid groups that are actively working to develop and improve the water supply in the developing world. An important first step in such work is an accurate appraisal of the existing water supply. This appraisal often requires a rapid, onsite field assessment of possible fecal Coliforms contamination with minimal equipment. Therefore, Department of Biotechnology and Department of Botany of R.D. & S.H. National College have initiated a community-based project to evaluate the potability of water from different location of Mumbai by MPN (Most Probable Number) method since year 2009-10. This project also aims to provide guidance to the citizen of Mumbai through our institution about the usability and importance of water testing.

**Keywords:** MPN test, Potable water, CAASP



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**STUDY OF MOMPREENEURIAL START-UPS**

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**Abstract:** India is a land of women entrepreneurs. A new genre of women entrepreneurs i. e. Mompreneur is evolving. Mompreneurs are those who first turn mothers and then marry maternity with entrepreneurship. Mothers see the world through different lens and that is reflected in their business ideas and working models. Mompreneurs have created their businesses that fulfill daily household needs, make business as well house work easily operative, bring out accessible education models for children and other new generations techniques to simplify life. The research study has 20 mompreneurs of Mumbai who started afresh bringing new business ventures into existence after a break. The objectives of the research is to find out the motives of mompreneurs to start their ventures, problems faced in managing it, ability to deal with the maternity pause and fresh ideologies that a startup brings in business.

**Keywords:** Mompreneur, entrepreneurship

**Introduction:** In India, more and more women are entering the world of business which was once reserved as a male bastion. The trend is visible in the business sectors too, where not only have they climbed up the corporate ladder but have struck out on their own as

entrepreneurs. Most of these women entrepreneurs have gained the requisite experience in a corporate environment and feel the need to establish their own small or medium enterprise. Women are said to be efficient, confident and a multi-tasker par excellence. They have perfected the balancing act between family commitments and work challenges. The share of female entrepreneurs in India is showing a healthy growth of 71 per cent per year. This comes as a welcome relief after the World Economic Forum ranked India at the 131st position in the list of economic

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Case Study Article

### E-TECHNOLOGY AS AN AID FOR START UPS

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**Abstract:** The modern business world is the era of E-technology. E-technology plays significant role in developing entrepreneurship in the current world. Shaping up of ideas into commercial business becomes smooth and easy due to utilization of e technology. The use of technology has been on the rise since the start of early 2000. The integration of technology with business coined the term of e-commerce which has received impetus due to the availability of gadgets. In India the young population is techno friendly. The start up companies uses the e technology to promote their business by way advertisement, buying and selling of goods, feedback from the stakeholders, they are inclined for different apps as well as tailor made software for the set up. In the world of global business e technology has gained importance and contributed immensely towards progress of the world in respect of research and development, communication, correspondence, marketing activities, advertising. The major contribution is in media world. In everyone's walks of life E Technology has captured in terms of agriculture sector, service sector, manufacturing industry, IT industry etc. E technology generates employment opportunities as inculcating professional and dynamic skill among youth which lead to entrepreneurship development. The nations growth and development depends upon e technology. For instance the developed countries like Japan, Germany, United States of America etc. The outcome of start up companies due to utilisation e technology are Microsoft, Apple, Facebook, Instagram, Amazon is the biggest online selling company is the outcome of e technology. The Chinese company MI Redmi phone, Television, gadgets, health band promoted their products through online which resulted good market share in mobile and electronic industry and now the production of MI products are manufactured in India as made in India. E technology plays significant role by helping commercial organisation to start up their business in the world of globalisation in respect of raising capital, conducting research, market evaluation, enhancing market, channel of distribution etc. To conclude that the human life is not restricted only to Food, Clothing, Shelter, Entertainment, Education but also e technology.

**Key words** – e-technology, entrepreneurship



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## THE INITIATION OF ELECTRIC CARS IN INDIA – START UP INDIA

Karan Bhasin, Nikisha Kukreja

R.D. National College, Bandra (West) S.Y - B.M.S

**Abstract:** As India talks about electrification of cars by India, till 2030, carmakers are the ones that are going to make all the difference in getting there. Indian government in return has also planned on assisting the movement of electrification of transport vehicles due to several environmental problems in the country. The biggest name in the Electrical vehicle industry thus far is Tesla, Inc. Elon Musk, CEO and Founder of Tesla Inc, has himself shown interest in launching Tesla cars in India, although the vehicles sold by them are going to appeal to the higher class, majority of India consists of middle class society. This opens up huge markets for start-ups with mid-range value cars. This brief original paper reports on India's current acceptance towards Electric Vehicles (EV) and whether electric cars have the potential to dramatically change the automotive industry in India. It also highlights the strategy used by Tesla Inc. and other EV manufacturers which is useful data for a start-up in EV industry in India. The methods used for this Argumentative Research Paper's Data collection are of two types, Primary and Secondary Methods. Primary Data is collected for the first time via questionnaire data collection using Simple Random Sampling Method. The secondary data is the data which has already been collected by different sources and mediums – Internet, Magazines, and Newspapers.

**Keywords** – Electric cars, Electric Vehicles, Tesla Inc.

**Introduction:** Tesla Motors is an automobile manufacturing company headed by Elon Musk

who is trying to change the perception of electric vehicles and competing with the traditional petrol cars. Since the inception of the company in 2003, Tesla Motors has carved a niche in the automobile industry with the manufacture of energy efficient cars. Tesla currently has three models in production; they range from luxury to affordable type. They are:

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### A MOMOLICIOUS START UP – “WOW MOMOS”

Ms. Manpreet Wadhwa

R.D. & S.H. National College, Bandra West, Mumbai 400050.

**Abstract:** It is difficult when it comes to food. Especially when you think of introducing something in the market that is already invented, created, easily available. But this start up story makes one believe that you just need some courage and one idea to be successful. Yes! Just an idea can make you successful. Wow Momos is that idea. Wow! Momo is a chain of fast food restaurants headquartered in Kolkata, specializing in Momos, a dumpling popular in Nepal and parts of Tibet and India. It was established in 2008 by Sagar Daryani and Binod Homagai, alumni of St. Xavier's College, in Kolkata. It has spread across the city to Chennai, Pune, Bengaluru, Kochi, Delhi NCR, Mumbai, Bhubaneswar. The brand has grown rapidly to become the country's largest momo chain in terms of volumes, turnovers & innovations. Their menu caters to 12 different flavors of momos available in steamed, fried & pan fried formats largely in white & brown flour variants. They have smartly innovated & invented to create Sizzler Momos, MoBurg (Momo Burgers), Momo Chats etc. And to top it all, even their dessert is a 'Chocolate momo.

The research article gives a brief about the man behind wow momos. His hard work in making the brand so successful. A brand that as very recently raised its 1<sup>st</sup> Round of Investor Funding of over 2 Million USD at a 100 Crore Valuation from The Indian Angel Network (IAN) in just a decade.

**Key terms-** Wow Momos, Food, Start up.



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Original Research Article

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## A STUDY TO FIND THE CONSUMPTION PATTERN OF PAAN IN URBAN TERRITORY

Maninder Kaur Walia.

Assistant Teacher (Junior College) R D National College, Bandra (W).

**Abstract:** Over the time the traditional paan is changed many a times to fit the modern culture and taste. Creativity just flows in such products, for example Chocolate paan, fire paan, icecream paan etc. But even after so much customization of paan to grab the modern taste, likings and also with such great health benefits of its own (100% Tobacco free & Nicotine free paan), the consumption of paan is very low in urban culture. Rather they go for the cigarette, Tabaco and other harmful products for refreshments. Here is where our research comes in to find out the reasons why people don't prefer eating paan as a digestive product after lunch or dinner or whether it be for mid-day refreshment (mouth freshener). The research consists of understanding the consumption patter of paan on urban territory and reason why paan consumption is low in the upper middle class and higher class population. It also consists the reasons why people do not consume paan, Is it the product which the consumers are not liking it, is it the taste or is it the packaging or do we just need brand repositioning to change the perspective of people towards paan. The researcher has followed a qualitative as well as a quantitative research design and analyzed the consumption patter and reasons of the demand for paan in urban culture specially in the upper middle class and higher class income group. Hence with the findings to start a food startup which will penetrate the market and will replace the habits of the consumers which are leading to the bad health. Example: To reduce the consumption of Cigarette, Mint and other mouth fresheners. It will also help to create the awareness of the varied health benefits of the paan. And to reposition the product paan in the market.

**Keywords:** Paan, Tabaco, food Star-up.



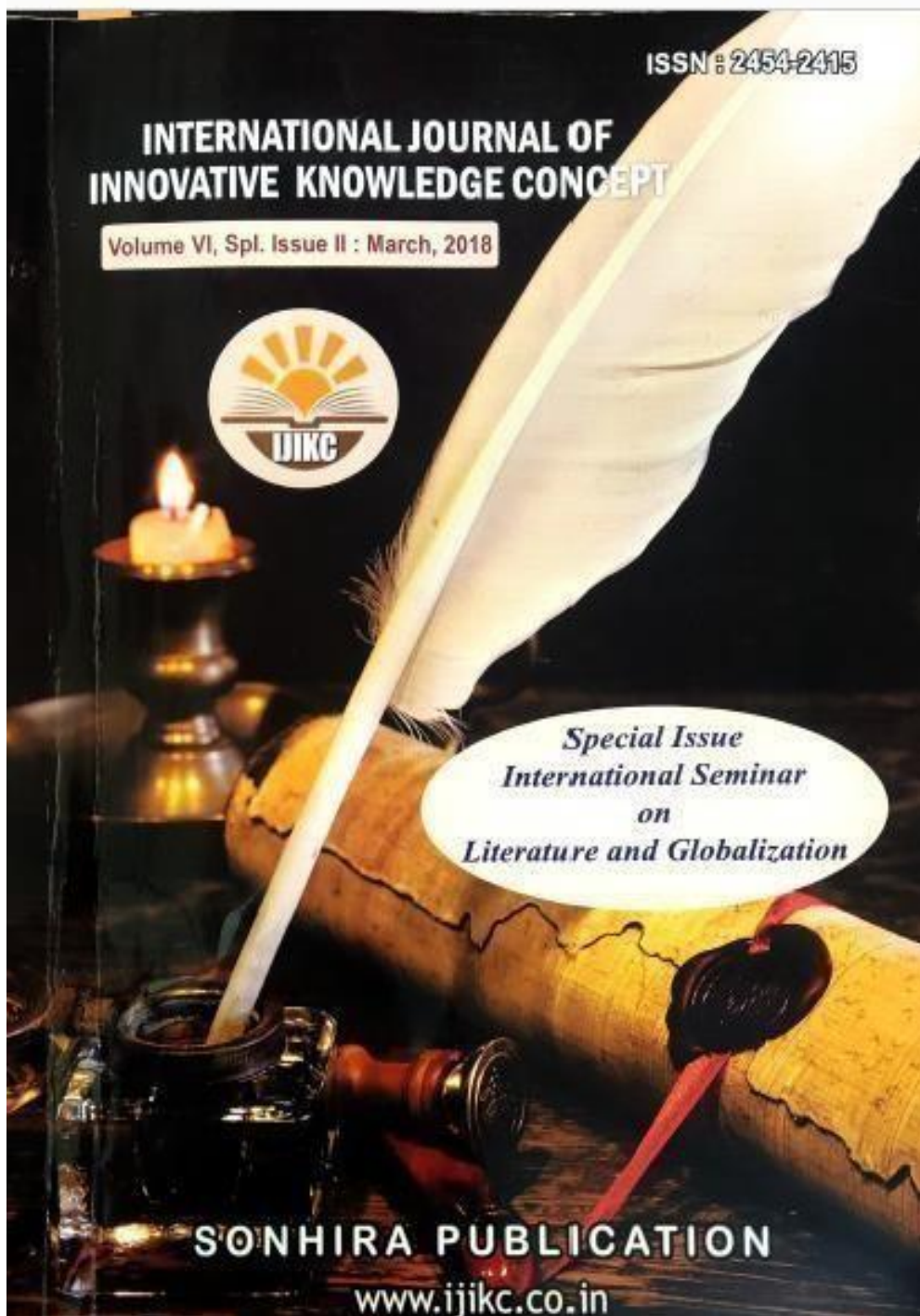
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# International Journal of Innovative Knowledge Concept

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It gives us immense pleasure to publish a Special Issue of International Journal of Innovative Knowledge Concept that consists of the research papers presented by the participants of International Seminar on 'Globalization and Literature' organized by the Department of English, University of Mumbai on March 16-17, 2018. IJIKC is peer-reviewed refereed and indexed multidisciplinary international research journal published from Pune, India with an objective to provide a much-needed forum to the researchers who believe that research can transform the world in positive manner and make it habitable to all irrespective of their social, national, cultural, religious or racial background.

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Rupturing Value Systems under the Garb of Globalisation through Symbols in Preeti  
Nair's *100 Shades of White*

Prof. Kranti Doibale & Prof. Prerna Jatav

Asst. Professor in English, R.D. and S.H. National College, Affiliated to University of  
Mumbai, Bandra (W), Mumbai, (M S) India

**Abstract**

The onset of globalisation brought with it the promise of prosperity and development through liberalisation and privatisation. Globalisation triggered economic wellbeing in 3<sup>rd</sup> world countries like ours and attempted to create the illusion of economical equality with the technologically advanced and developed western world. This phenomenon created a class of natives who rose to affluence with this promise of globalisation and started emulating the west in culture and lifestyle. This however, was a mindless superficial imitation which systematically rent the monolithic fabric of Indian culture and ethos. Over the years, globalisation has been blamed for this depreciation of native values. However, it is the impact of westernisation under the garb of globalisation that has led to this decline. Preeti Nair's *100 Shades of White* offers itself for exploration of this concept through various symbols embedded in the text.

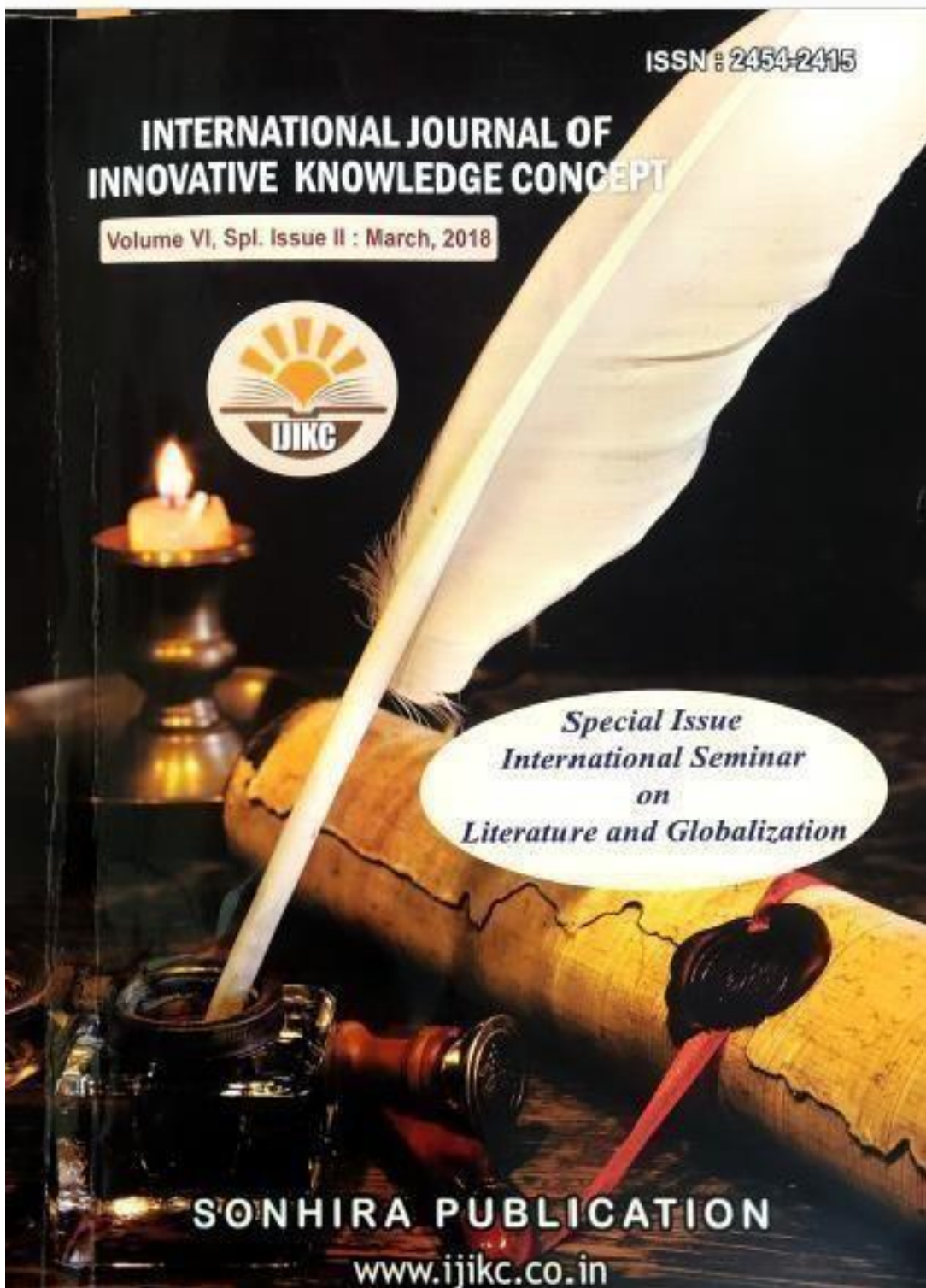
**Key Words:** globalisation, westernisation, cultural identity, value systems

The onset of globalisation brought with it the promise of prosperity and development through liberalisation and privatisation. Globalisation triggered economic wellbeing in third world countries like India and attempted to create the illusion of economical equality with the technologically advanced and developed western world. This phenomenon created a

itself for exploration of this concept through various symbols embedded in the text. Of home and alienation, of betrayals and reinstatement, of courage and determination, of motherly warmth and immature impetuosity, *100 Shades of White* is a self-narrated story of a mother, Nalini and her daughter, Maya. Two extremes of a number line, Nalini is calm,



*Dr. Neha Jagtiani*



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**Rupturing Value Systems under the Garb of Globalisation through Symbols in Preeti  
Nair's *100 Shades of White***

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Mumbai, Bandra (W), Mumbai, (M S) India*

**Abstract**

The onset of globalisation brought with it the promise of prosperity and development through liberalisation and privatisation. Globalisation triggered economic wellbeing in 3rd world countries like ours and attempted to create the illusion of economical equality with the technologically advanced and developed western world. This phenomenon created a class of natives who rose to affluence with this promise of globalisation and started emulating the west in culture and lifestyle. This however, was a mindless superficial imitation which systematically rent the monolithic fabric of Indian culture and ethos. Over the years, globalisation has been blamed for this depreciation of native values. However, it is the impact of westernisation under the garb of globalisation that has led to this decline. Preeti Nair's *100 Shades of White* offers itself for exploration of this concept through various symbols embedded in the text.

**Key Words:** globalisation, westernisation, cultural identity, value systems

The onset of globalisation brought with it the promise of prosperity and development through liberalisation and privatisation. Globalisation triggered economic wellbeing in third world countries like India and attempted to create the illusion of economical equality with the technologically advanced and developed western world. This phenomenon created a

itself for exploration of this concept through various symbols embedded in the text. Of home and alienation, of betrayals and reinstatement, of courage and determination, of motherly warmth and immature impetuosity, *100 Shades of White* is a self-narrated story of a mother, Nalini and her daughter, Maya. Two extremes of a number line, Nalini is calm,



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