

MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

3.2.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

Sl. 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	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr. Rishipal	A Text Book on Plantation Crops				National	2024	978-93-92851-45-2	Meerut Institute of Technology-Meerut	Narendra Publishing House Delhi (India)
2	Er. Kapil Chauhan	Irrigation Engineering				National	2024	-	Meerut Institute of Technology-Meerut	Bhart Bharti Publication & Company
3	Er. Kapil Chauhan	Steel Structure Drawing				National	2024	-	Meerut Institute of Technology-Meerut	Bhart Bharti Publication & Company
4	Dr. Varsha Rani	Advance Production Technology of Antirrhinum				National	2023	978-93-5834-760-9	Meerut Institute of Technology-Meerut	Integrated Publications
5	Dr. Varsha Rani	Utilising Biomass-Derived Composites in 3D Printing to DEVELOP Eco-Friendly Environment				National	2024	978-3-031-52485-1	Meerut Institute of Technology-Meerut	Springer
6	Dr. Varsha Rani	Advance in Production Technology of Round Melon				National	2024	978-93-56516-33-5	Meerut Institute of Technology-Meerut	Narendra Publishing House Delhi (India)
7	Dr. Varsha Rani	TECHNIQUES OF MICROBIOLOGY				National	2024	978-93-91063-25-2	Meerut Institute of Technology-Meerut	Narendra Publishing House Delhi (India)
8	Dr. Praveen Sahu	SUPPLEMENTARY OF ANIMAL HUSBANDRY AND DAIRYING				National	2024	978-81-976738-3-2	Meerut Institute of Technology-Meerut	Xoffence International Publication
9	Dr. Pawan Oberoi	Accounting For Managers (English Medium)	NA	NA	NA	National	2024	9789387970014	Meerut Institute of Technology	Navyug Publications, Agra
10	Dr. Pawan Oberoi	Accounting For Managers (Hindi Medium)	NA	NA	NA	National	2024	9789387970021	Meerut Institute of Technology	Navyug Publications, Agra
11	Dr. Pawan Oberoi	Auditing (English Medium)	NA	NA	NA	National	2024	9789387970007	Meerut Institute of Technology	Navyug Publications, Agra
12	Dr. Pawan Oberoi	Principles and Practices Of Marketing (Hindi Medium)	NA	NA	NA	National	2024	9789393726893	Meerut Institute of Technology	Navyug Publications, Agra
13	Dr. Pawan Oberoi	Marketing Management (English Medium)	NA	NA	NA	National	2024	-	Meerut Institute of Technology	Navyug Publications, Agra
14	Dr. Pawan Oberoi	Business Organisation (English Medium)	NA	NA	NA	National	2024	978-93--931968-2-3	Meerut Institute of Technology	Navyug Publications, Agra
15	Dr. Pawan Oberoi	Business Organisation (Hindi Medium)	NA	NA	NA	National	2024	978-93-931968-6-8	Meerut Institute of Technology	Navyug Publications, Agra

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16	Dr. Pawan Oberoi	Coporate Accounting (English Medium)	NA	NA	NA	National	2024	978-93-87970-82-3	Meerut Institute of Technology	Navyug Publications, Agra
17	Dr. Pawan Oberoi	Corporate Accounting (Hindi Medium)	NA	NA	NA	National	2024	-	Meerut Institute of Technology	Navyug Publications, Agra
18	Dr. Pawan Oberoi	Business Management	NA	NA	NA	National	2024		Meerut Institute of Technology	Navyug Publications, Agra
19	Ms. Renu Singh	Non performing asset in banks and their impact on the sustanibility of msme sector	NA	NA	NA	National	2024	979-8369308356	Meerut Institute of Technology	IGI Global
20	Dr. Ankur Goel	Benchmarking the Collaborative and Integrated Smart City Model with Industry 5.0: A Way Forward in a book "Smart Cities :	NA	NA	NA	International	2023	9781003376064	Meerut Institute of Technology	Taylor & Francis
21	Dr. Ankur Goel	"Futuristic Wearable Technologies: A Fusion of ML and AI Capabilities" in an edited book 'Convergence of Artificial Intelligence and Internet of Things for Industrial Automation'	NA	NA	NA	International	2024	9781003509240	Meerut Institute of Technology	Taylor & Francis
22	Dr. Zaiba Ishrat	GUI Based Modeling and Simulation of Maximal Calcium Ion Bifurcation on Neuron Response and its Applications	GUI Based Modeling and Simulation of Maximal Calcium Ion Bifurcation on Neuron Response and its Applications	2024 4th International Conference on Innovative Practices in Technology and Management (ICIPTM)	SCOPUS	International	2024	https://ieeexplore.ieee.org/document/10563640	2024	SCOPUS
23	Dr. Zaiba Ishrat	Modeling and Simulation of HH Equation of Neuron for Detection of Certain Neurological and Pathological Disorders	Modeling and Simulation of HH Equation of Neuron for Detection of Certain Neurological and Pathological Disorders	Recent Developments in Mechanics and Design	Springer Nature Singapore	International	2023	https://www.springerprofessional.de/modeling-and-simulation-of-hh-equation-of-neuron-for-detection-o/27372940	2024	Springer Nature Singapore
24	Nitin Kumar	Hospital and Clinical Pharmacy				National	2024			Asian Publishers



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25	Hasan Ali, Amrendra Pratap Yadav, Nitin Kumar	Emerging Strategies in Antibacterial Drug Resistance Management Mechanisms, Challenges, and Novel Interventions (Editors: Ajmer Singh Grewal Ashwani K. Dhingra Kunal Nepali Geeta Deswal Arun Lal Srivastav)	Strategies for Prevention of Antimicrobial Drug Resistance			International	2024	979-8-89530-140-1		Nova Science Publishers
26	Nitin Kumar	Lipid Based Nanocarriers for Drug Delivery (Editors: Shikha Baghel Chauhan Indu Singh Ajmer Singh Grewal Rajwinder Kaur)	Nano Lipid Carriers: Revolutionizing Herbal Medicine for Enhanced Therapeutic Outcomes			International	2024	979-8-89113-920-6		Nova Science Publishers
27	Dr. Preeti Singh		Queuing Epidemic Model with Exposed, Infection and vaccination under Markov Process	Mathematics and Applications ICMA 2024	International Conference on Mathematics and Applications	International	2024	NA	Meerut Institute of Technology, Meerut	
28	Dr. Preeti Singh		Machine Repair Problem with Working Vacation, Server Breakdown, Delayed Repairs and Retrial Queues	ICMSAAI 24	International Conference on Mathematical Sciences and its Application to Artificial Intelligence	International	2024	NA	Meerut Institute of Technology, Meerut	

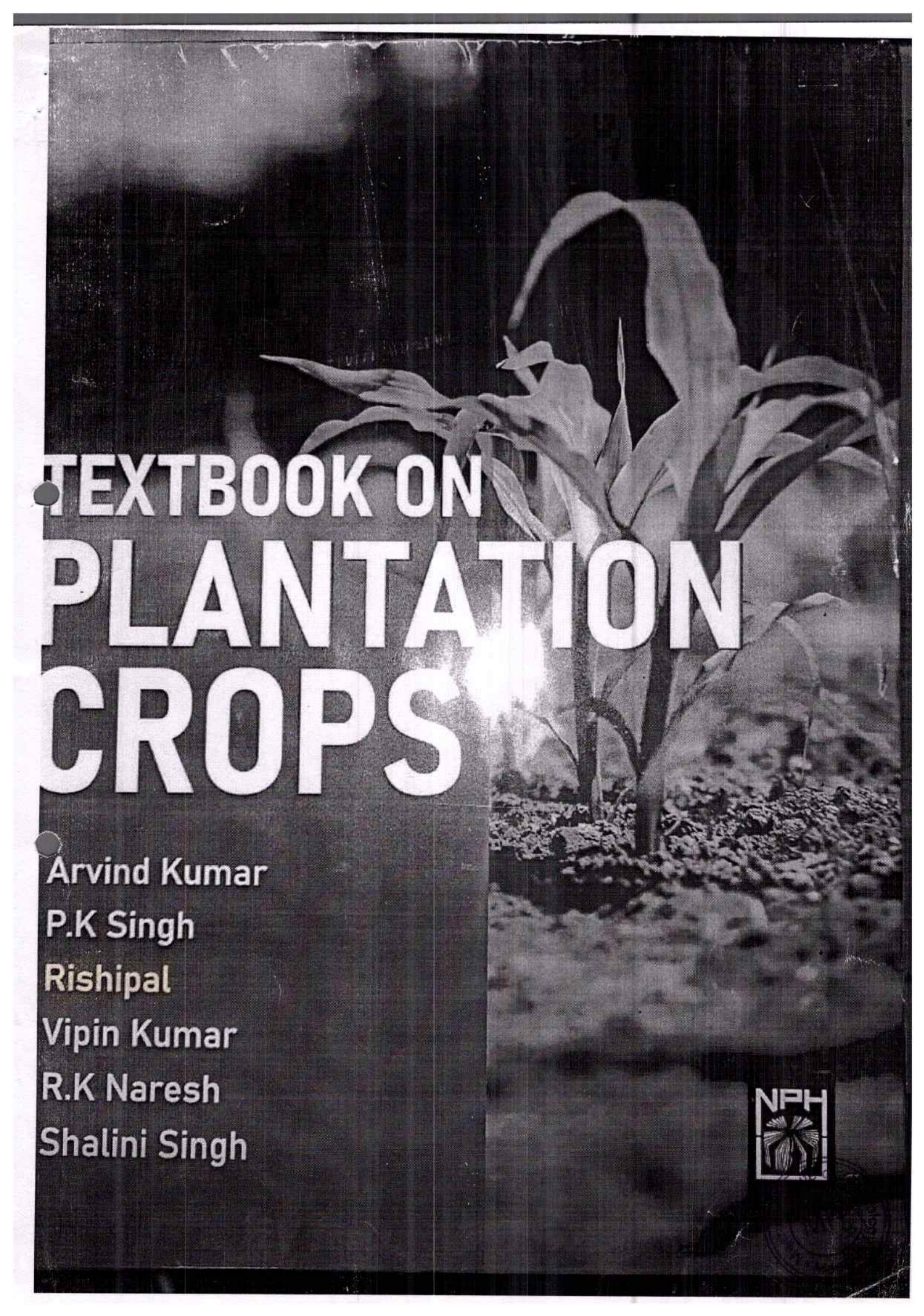


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29	Dr. Akshika Rastogi		An Inventory Model with Partial Trade Credit Policy and Product Expiration	ICMSAAI 24	International Conference on Mathematical Sciences and its Application to Artificial Intelligence	International	2024	NA	Meerut Institute of Technology, Meerut	
30	Dr. Preeti Singh		Reliability Analysis of Machining System with Working Vacation, Server Breakdown, Delayed Repairs and Retrial Queues	ICNAA 2024	International Conference on Nonlinear Analysis and Applications(ICNAA 2024) nad Symposium on Ancient Indian Mathematics	International	2024	NA	Meerut Institute of Technology, Meerut	
31	Dr. Ankur Goel	Handbook of Flexible and Smart Sheet Forming Techniques: Industry 4.0 Perspectives" to be published by John Wiley & Sons, Inc.	Integration of IOT, Fog & Cloud based Computing Oriented Communication Protocols in Smart Sheet Forming. Pp 151-166	-	-	International	2023	-	Meerut Institute of Technology, Meerut	John Wiley & Sons





TEXTBOOK ON PLANTATION CROPS

Arvind Kumar

P.K Singh

Rishipal

Vipin Kumar

R.K Naresh

Shalini Singh



Textbook on Plantation Crops

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Chapter - 3

Advances Production Technology of Antirrhinum

Chetan Chauhan*, Devanshu Shukla, Jagraj Singh, Mohit, Abhishek Chandra and
Varsha Rani

Introduction

Antirrhinum majus (common snapdragon) is a species of flowering plant belonging to the genus *Antirrhinum* and family Scrophulariaceae. It commonly called as snapdragon or dog flower or lions' mouth or dragon mouth. It is derived from Greek Word Anti means like and Rhenos means stout. *Antirrhinum majus*, snapdragon, is a summer-flowering, short-lived Mediterranean perennial usually cultivated as an annual. "Antirrhinum has always allowed new, and frequently surprising, insights to be made into the nature, variability and manifestation of genetic substance and, even today, the rich variety of appearance. The cultivated *Antirrhinum majus* is grown in tropical, subtropical, and temperate countries. *Antirrhinum* have been bred extensively as cut flowers for all year-round production under glass: they are an important glasshouse crop in Western Europe and the USA, and in suitable climates can be grown outdoors from early-spring to autumn. The magnificent and charming flowers are borne on terminal long spikes of many colours except blue, and with numerous shades. It is one of the excellent cut flowers, which have long lasting qualities. These are also used as garden plants, bedding plants, in rockeries or herbaceous borders and as potted plants. Plants can be grown for cut flowers in an open field or under protection depending on the climate. The varieties in plant height in different types and groups widen its scope for use in the garden for different purposes. Apart from this *antirrhinum* was used in the earliest studies of inheritance by Mendel and Darwin, and became established as a model by Erwin Baur during the first decades of the twentieth century. *Antirrhinum* is considered as an alternative angiosperm model. Wide diversity of *Antirrhinum* species, combined with classical and molecular genetics-the two traditional strengths of *Antirrhinum*-provide an opportunity for developmental, evolutionary, and ecological approaches.



Utilising Biomass-Derived Composites in 3D Printing to Develop Eco-Friendly Environment



Chetan Chauhan, Varsha Rani, Mukesh Kumar, and Rishubh Motla

1 Introduction

In recent times, the manufacturing sector has undergone a significant shift due to the advent of three-dimensional (3D) printing, also known as additive manufacturing (AM) technology. The utilisation of this technology has brought about a significant transformation in the supply chain industry, as it allows for the implementation of localised and even personalised manufacturing processes for goods (Ji et al., 2020). The classification of the additive manufacturing (AM) process, as outlined in ASTM F2792-12a, involves categorising it into seven distinct groups according to the layering mechanism employed (Wang et al., 2017). Among these groups, material extrusion (ME) is considered the most favourable method due to its cost-effectiveness, ease of setup, and extensive selection of materials. The utilisation of ME machines, specifically those designed for desktop use, has experienced a surge in popularity due to their cost-effectiveness and capacity to enable users to independently manufacture their own essential items and consumer goods through a do-it-yourself (DIY) approach (Astm, 2015).

The utilisation of filament-formed materials is a common practice in the field of ME machines. These materials are typically composed of thermoplastic polymers, such as polylactic acid (PLA) and acrylonitrile butadiene styrene (ABS). Nevertheless, the growing utilisation of 3D printing for the production of end-use products in various sectors has led to heightened apprehensions about the environmental implications associated with the disposal of conventional plastic materials and the potential risks they pose in terms of toxicity. In order to tackle these

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A. L. Srivastav et al. (eds.), *Valorization of Biomass Wastes for Environmental Sustainability*, https://doi.org/10.1007/978-3-031-52485-1_8

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Advances in Production Technology of Round Melon

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Introduction

Praecitrullus fistulosus, commonly referred to as round melon, is a vegetable belonging to the Cucurbitaceae family, which is recognised as the one of the largest family of plants. This annual vine is known for its light green, hairy leaves and has the ability to spread or climb. The plant in question is frequently denoted as squash melon, Indian squash, round gourd, and Indian baby pumpkin. Its fruits are diminutive and exhibit a spectrum of hues ranging from light to deep green. The texture of these fruits can be either hairy or smooth, and they are characterised by the presence of blackish seeds. The round melon, also referred to as tinda, dilpasand, tindu, tendsi, tendus, and other regional names, is a widely recognised fruit. The spherical fruit commonly known as the melon is a highly sought-after summer vegetable in the northern region of India. It is extensively grown and marketed as a vegetable in India, Pakistan, and Afghanistan, and to a lesser extent in the United States. The Tinda, a distinctive melon resembling a squash, is purportedly indigenous to India. The distribution of this phenomenon in India is primarily concentrated in states such as Punjab, Haryana, Uttar Pradesh, Rajasthan, Maharashtra, and Gujarat, among others. The fruit exhibits a significant water content, comprising 93.5% of its overall composition. The entire round melon plant is abundant in essential dietary components such as carbohydrates, proteins, fats, fibres, vitamins, and minerals, as well as a plethora of plant compounds, including phenolics and cucurbitacins. The tinda fruit is composed of carbohydrates, fats, digestible proteins, vitamins, and essential minerals, including phosphorus, calcium, and magnesium, as well as various biologically active metals such as copper, iron, zinc, nickel, magnesium, sodium, chromium, cadmium, lead, and cobalt. The round melon is characterised by its low caloric content and high concentration of essential nutrients. The spherical fruit known as round melon is widely recognised for its potential to promote physical well-being. In Ayurvedic medicine, it has been utilised as a remedy for a variety of ailments, including but not limited to enhancing heart function, facilitating kidney detoxification, treating jaundice, regulating thyroid function, and exhibiting antimicrobial and anthelmintic properties. The foliage of spherical melon harbours cucurbitacins and vitamin C, both of which are essential in enhancing the immune system, promoting liver function, and exhibiting antioxidant properties. The lectin (PflP) that has been partially purified from the fruit juice of round melon has demonstrated significant efficacy in inhibiting tumour growth through its targeting of angiogenesis. As such, it exhibits properties that are both antiangiogenic and antitumor in nature. The findings suggest that *P. fistulosus* possesses



Fig. 1 : Round melon

TECHNIQUES OF MICROBIOLOGY

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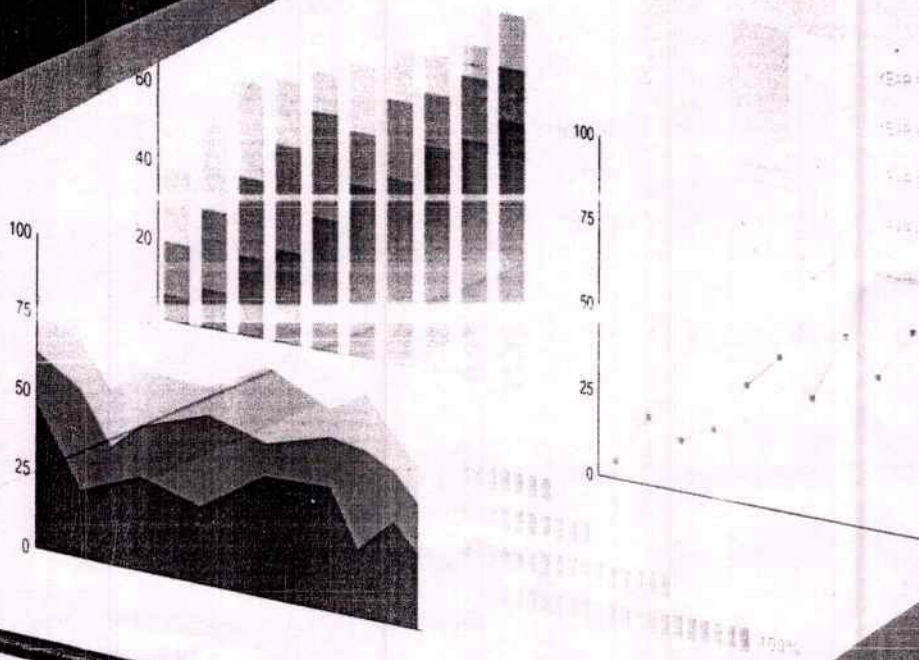
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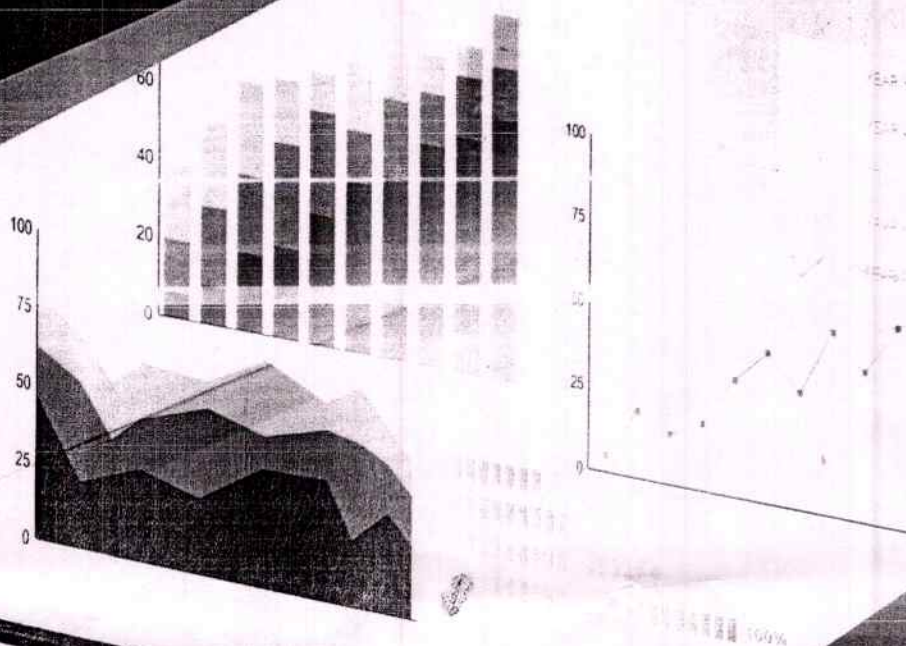
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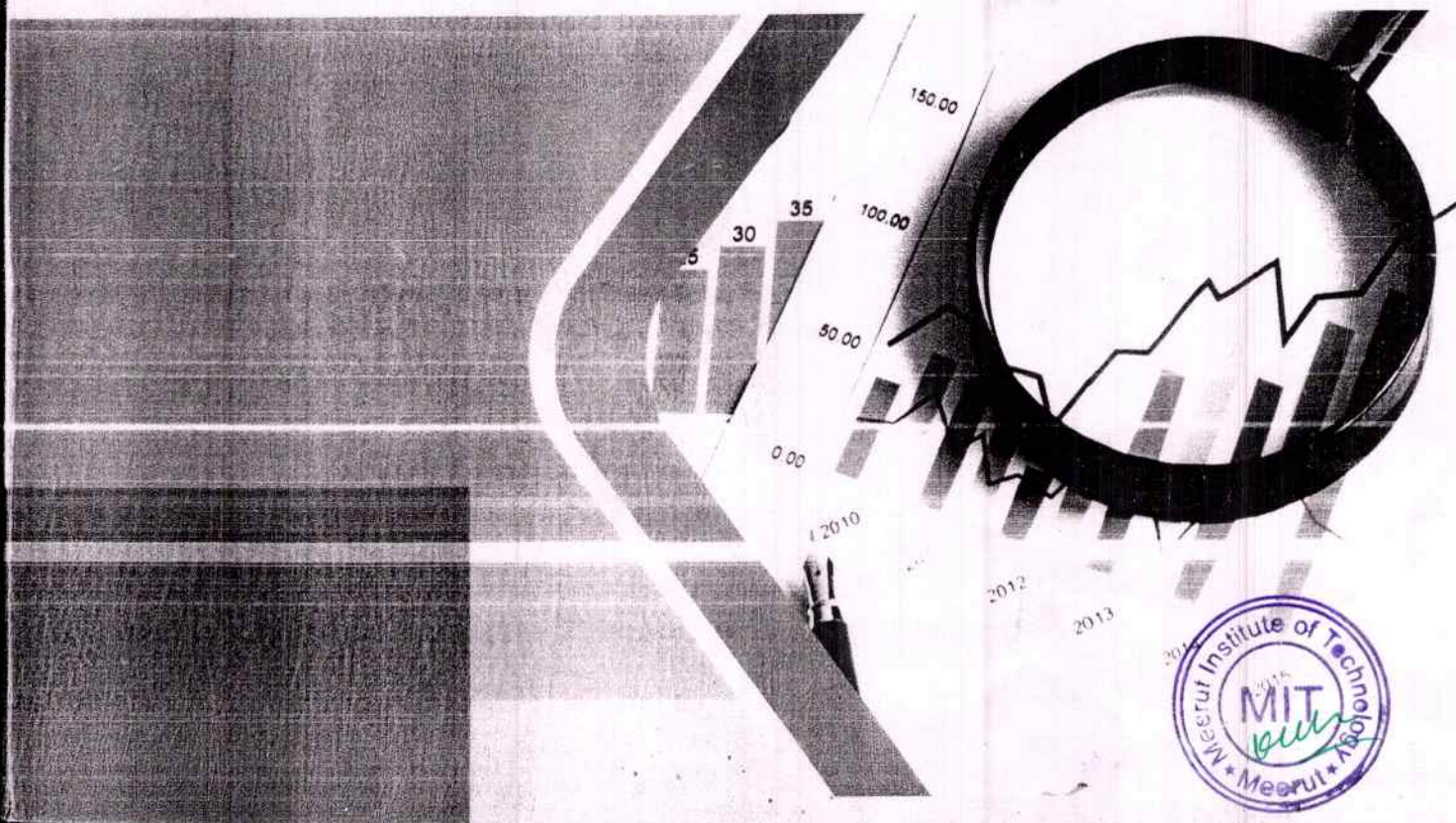
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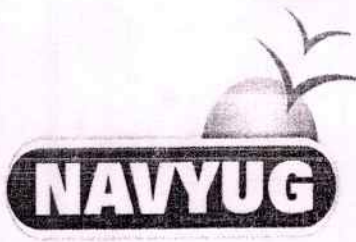
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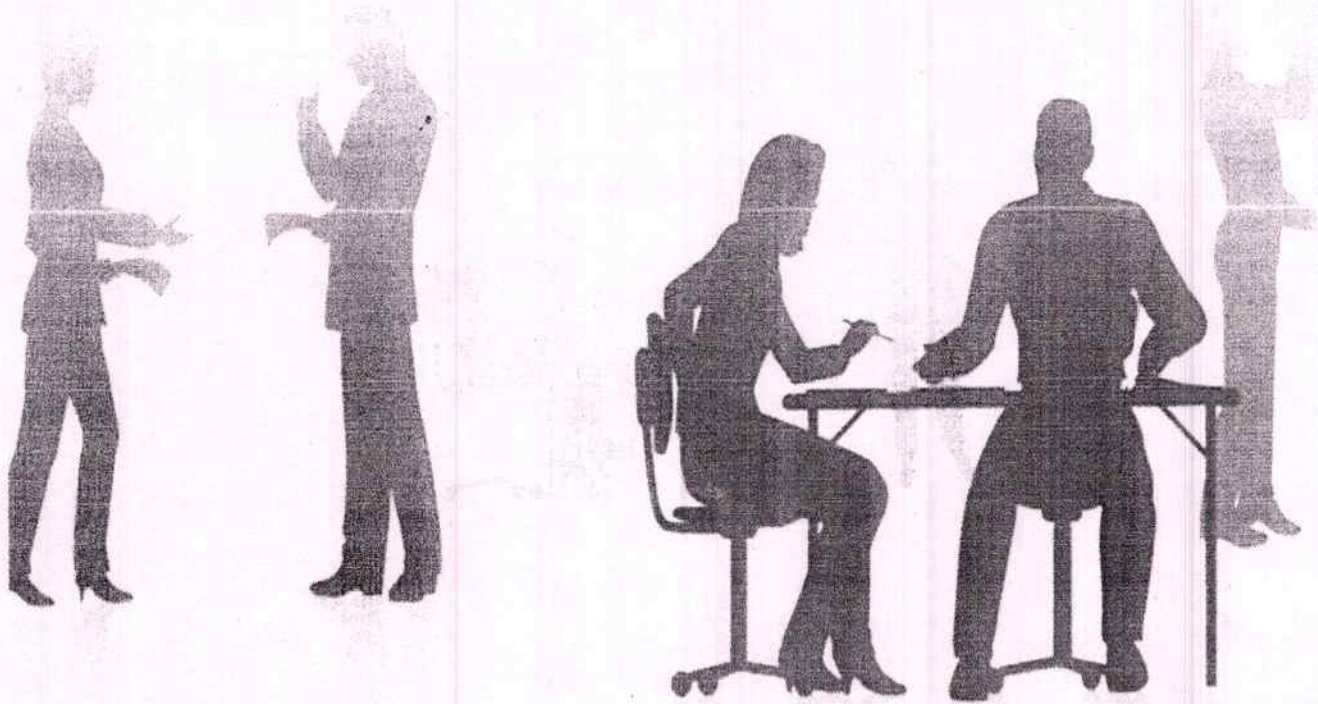
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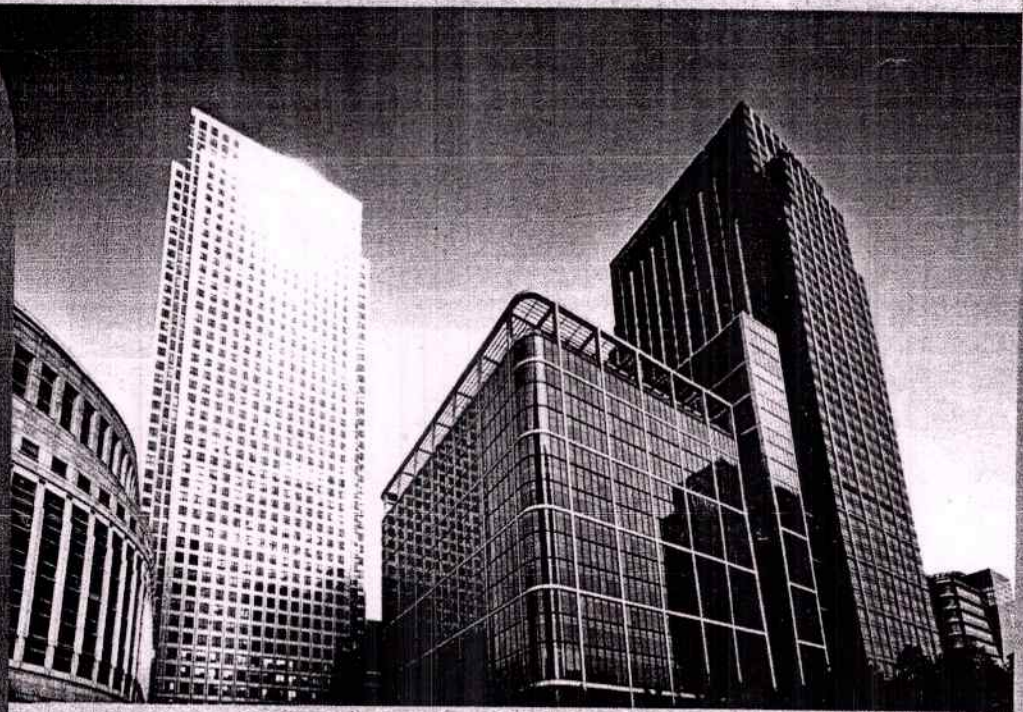


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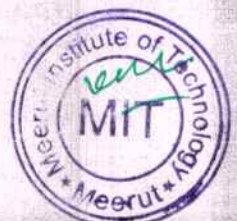
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Financial report

Balance sheet

Assets	1,034,528
Current assets	85,893
Non-current assets	948,635
Liabilities	168,600
Current liabilities	110,000
Non-current liabilities	58,600
Equity	74,390
Reserves	74,390
Retained earnings	1,000



Equity statement

Current year	1,074,576
Carried forward from previous year	1,000
Dividends	10,000
Previous year	168,600
Comprehensive income	10,000
Net income	10,000
Dividends	10,000

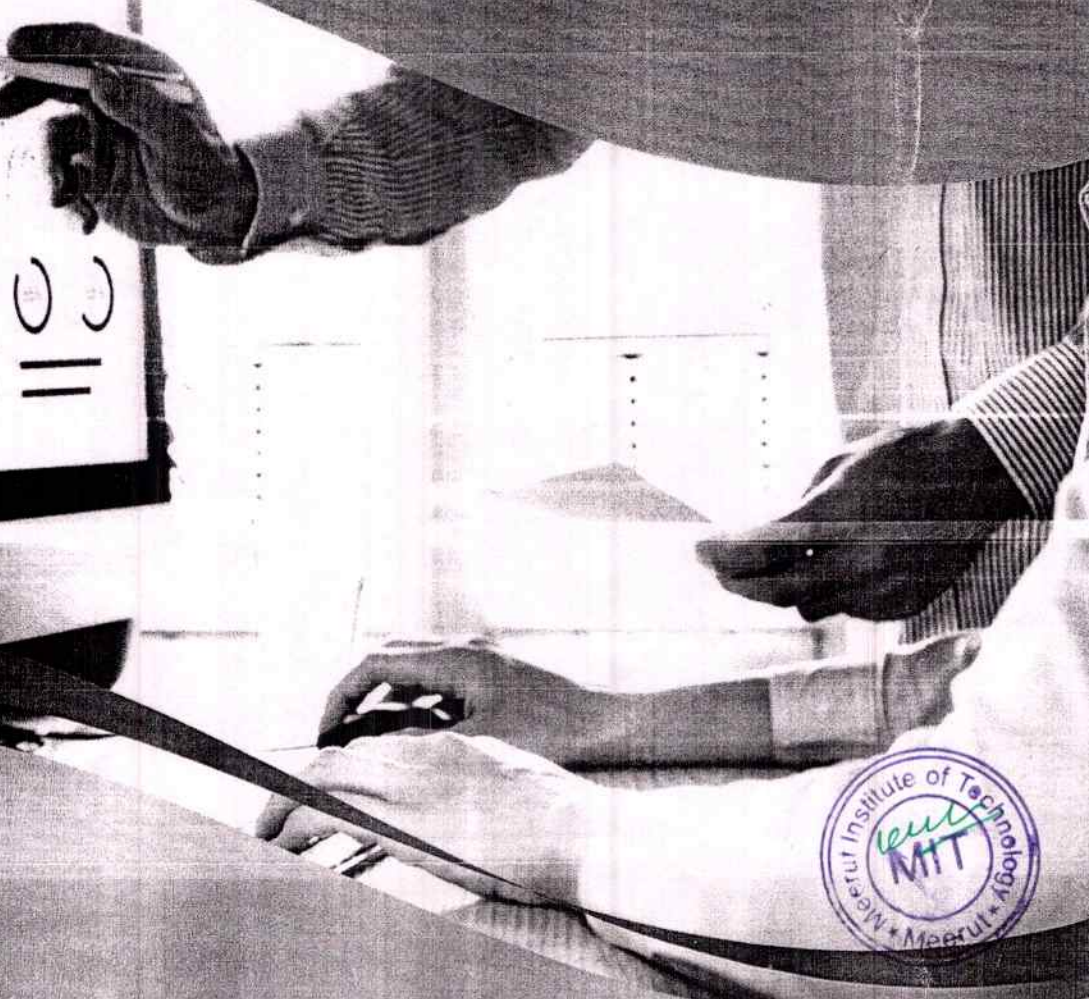
Income statement

Revenues	12,878,516
Net sales	12,878,516
Cost of sales	1,000,000
Gross profit	11,878,516
Operating expenses	1,000,000
Operating income	10,878,516
Net income	10,878,516



Cash flow statement

Operations	12,878,516
Investing	1,000,000
Financing	1,000,000



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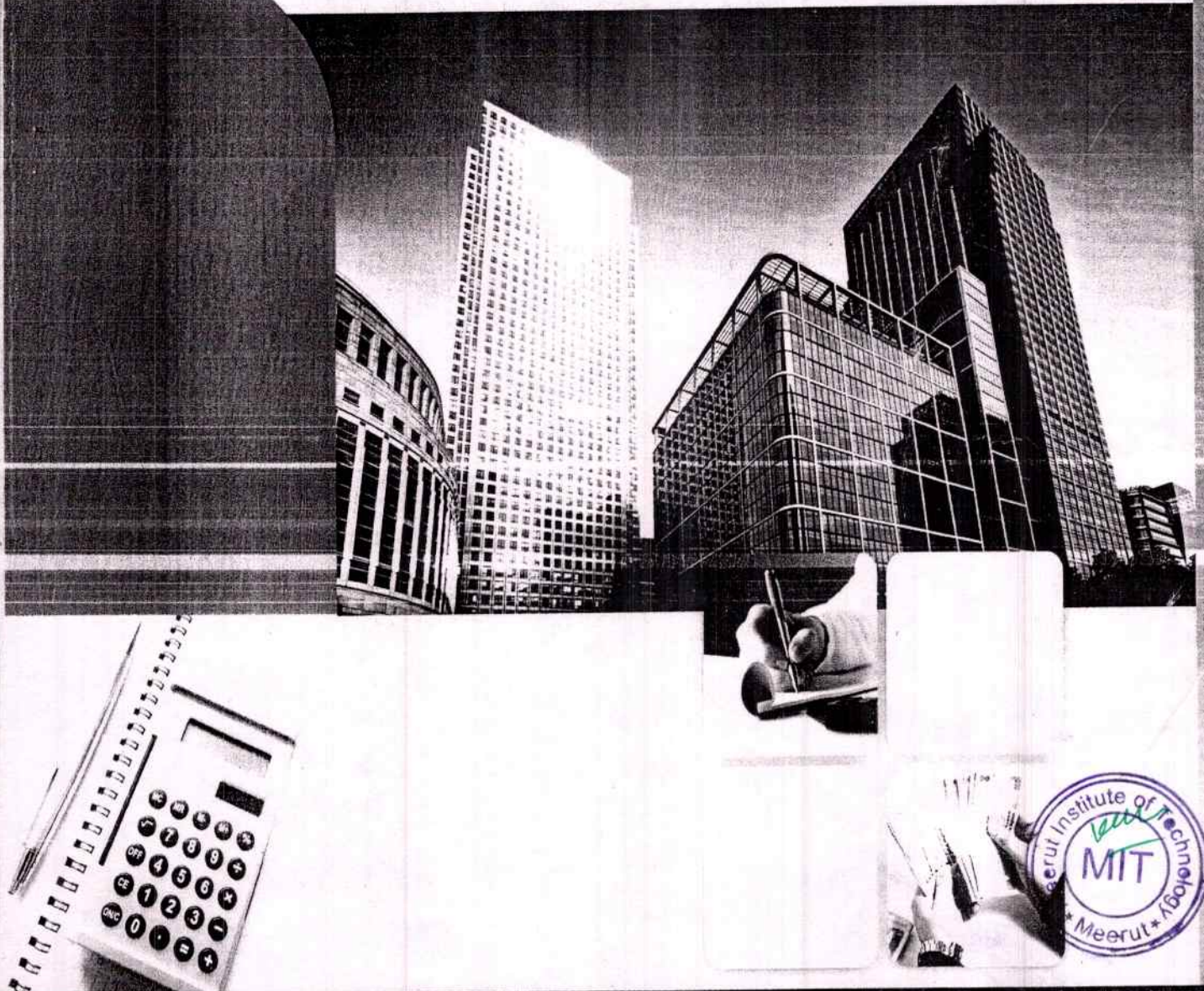
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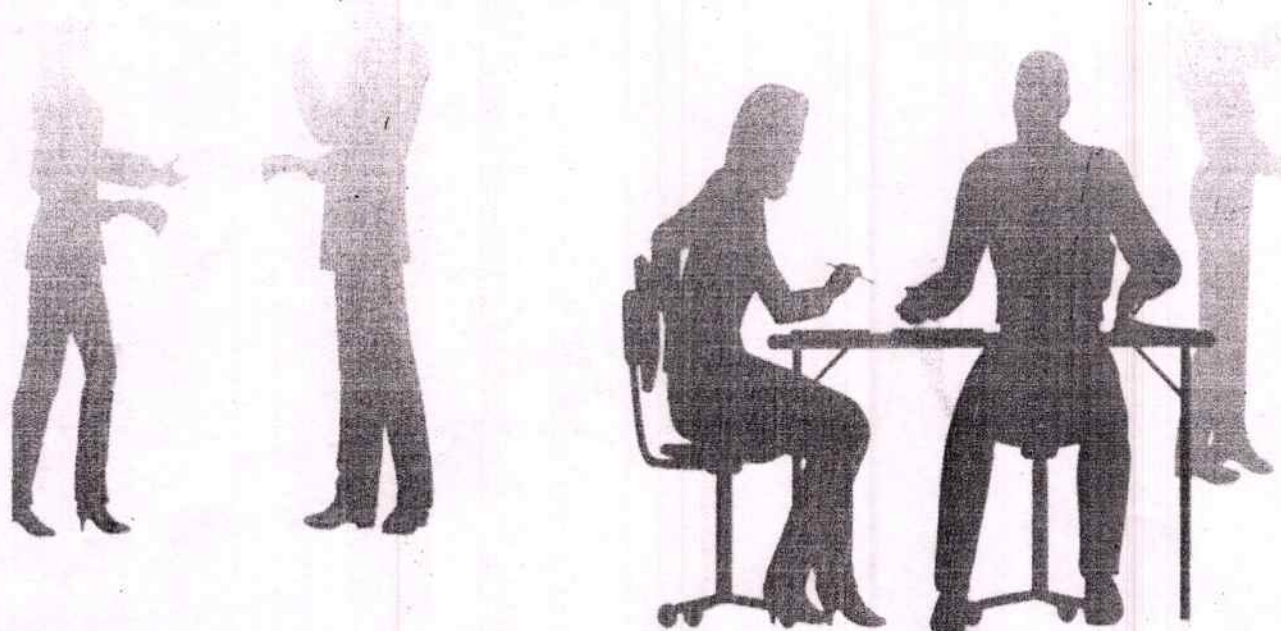
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Chapter 9

Governance and Policy Transformations in Central Banking: Nonperforming Assets in Banks and Their Impact on the Sustainability of the MSME Sector

Reenu Kumari

Krishna Institute of Engineering and Technology, Muradnagar, India

Renu Singh

MIT, Meerut, India

ABSTRACT

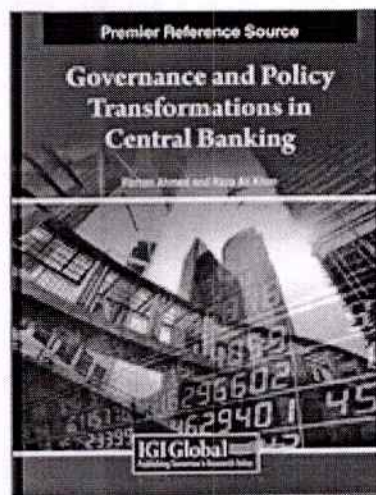
The MSME sector, which employs over 11.10 crore workers in non-agricultural activities and contributes to approximately 50% of India's exports, is the backbone of the economy. Unfortunately, the ongoing health emergency has created a distressing situation for these units, as the severely constrained demand has led to a significant decline in their revenue. This situation is further exacerbated by the pandemic, which has created a myriad of problems for the sensitive MSME sector, as their liquidity depends on the daily demand for their product, and they lack significant cash reserves. This is putting the sustainability of MSMEs at stake, which is concerning since they contribute approximately 30-35% to the GDP. The current scenario presents a very gloomy picture of the prospects of India's economic development. This chapter discusses the nonperforming assets (NPAs) and their impact on the sustainability of the MSME sector. This chapter also discusses the causes and effects NPAs on the sustainability of the MSME sector.

1. INTRODUCTION

Non-performing assets (NPAs) are assets that fail to generate income or cash flow for their owner, typically due to default on interest or principal payments (Das, 2010). In the context of the Micro, Small,

DOI: 10.4018/979-8-3693-0835-6.ch009





Governance and Policy Transformations in Central Banking: Nonperforming Assets in Banks and Their Impact on the Sustainability of the MSME Sector

Reenu Kumari (/affiliate/reenu-kumari/461210/), Renu Singh (/affiliate/reenu-singh/461211/)

Source Title: Governance and Policy Transformations in Central Banking (/book/governance-policy-transformations-central-banking/324759)

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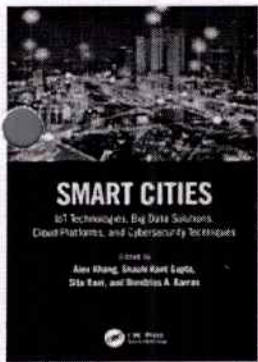
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Abstract

The MSME sector, which employs over 11.10 crore workers in non-agricultural activities and contributes to approximately 50% of India's exports, is the backbone of the economy. Unfortunately, the ongoing health emergency has created a distressing situation for these units, as the severely constrained demand has led to a significant decline in their revenue. This situation is further exacerbated by the pandemic, which has created a myriad of problems for the sensitive MSME sector, as their liquidity depends on the daily demand for their product, and they lack significant cash reserves. This is putting the sustainability of MSMEs at stake, which is concerning since they contribute approximately 30-35% to the GDP. The current scenario presents a very gloomy picture of the prospects of India's economic development. This chapter discusses the nonperforming assets (NPAs) and their impact on the sustainability of the MSME sector. This chapter also discusses the causes and effects NPAs on the sustainability of the MSME sector.

Chapter Preview





Chapter

Benchmarking the Collaborative and Integrated Smart City Model with Industry 5.0

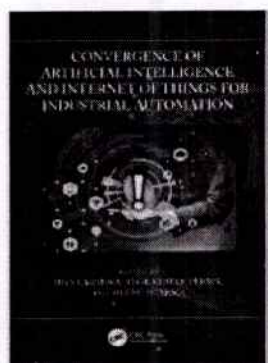
A Way Forward

By Ankur Goel, Ritu Kothiwala, Satish Chandra Velpula, Ratnesh Kumar, Deepak Sharma

Book Smart Cities

Edition	1st Edition
First Published	2023
Imprint	CRC Press
Pages	10
eBook ISBN	9781003376064





Chapter

Futuristic wearable technologies

A fusion of ML and AI capabilities

By *Monisha Awasthi, Ankur Goel, Moniya Goel*

Book Convergence of Artificial Intelligence and Internet of Things for Industrial Automation

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ABSTRACT

The advent of smart mobile devices and advancements in computing and communication intelligence have spurred the development of cutting-edge wearable technology. This study delves into wearable smart devices and research prototypes, employing machine learning (ML) and Artificial Intelligence (AI) for thorough analysis and categorization. The primary focus is exploring the latest paradigms of wearable devices through the lenses of AI and ML, including AI-driven smart wearables and applications for wearing smart devices. The research reveals that technological challenges persist despite the growing acceptance of continuous monitoring technologies for health and well-being benefits. Network and communication issues, data extraction complexity, algorithmic elements, and storage problems pose obstacles for AI-driven smart wearables. The chapter highlights the increasing use of wearable devices for monitoring exercise and fitness, enabled by sophisticated sensors measuring various health parameters. Integrating ML and AI into wearable architectures opens up opportunities in healthcare, sports, entertainment, and home security industries. The chapter concludes by exploring the broader "Smart Wearable Devices Industry" and outlining future developments and research directions.



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In spite of sodium, potassium and chloride ions, calcium, magnesium and cobalt ions also plays a vital role for complex signaling in brain. Calcium ions (Ca^{2+}) regulate neuronal activity in homo- and hetero cellular control brain physiology. Without calcium ion signaling, all transcriptional networks, and ion exchangers in brain may cause sudden stop of all physiological functions. Wrong interactions between Ca^{2+} and reactive other species signaling coordinate in neurodegenerative disorders, perturbed energy metabolism, and alterations of disease-related synaptic dysfunction. Therefore, in this paper, review of Ca^{2+} has been modeled with original H-H equations and discusses deregulation of Ca^{2+} for different neurological related diseases as Alzheimer, Parkinson, coma etc. These channels activate due to depolarization and inactivate very little and slowly during the whole action potential generation phase. Calcium ion bifurcation was first characterized by Fatt and Katz (1953). From researcher's simulation and formulation it was concluded, there are various subtypes channel in neuronal cells. These sub-channels serve a vital role in cellular signaling in neuron cell. Based on the neural functionality, calcium ion bifurcation is depended on calcium channel types L ca, T ca and N ca type. L ca -type currents are the main calcium ion response observed in muscular cells, where they initiate function of the respective cells. T ca type calcium ion response is activated by depolarization of ion. N ca type calcium ion channel provided only neuronal activity. This paper represents the bifurcation level of calcium ion response on the neuron functionality and an investigation on the properties of Ca^{2+} ion response has been observed. This paper also explains the extension of original H-H model for neuron at excitable state and is analyzed with GUI panel with proper simulated version.

Published in: 2024 4th International Conference on Innovative Practices in Technology and Management (ICIPTM)

Date of Conference: 21-23 February 2024

Date Added to IEEE Xplore: 24 June 2024

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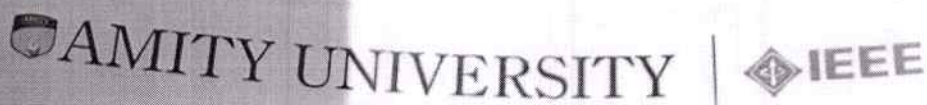
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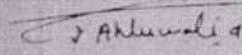
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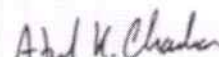
This is to acknowledge the participation of

Zaiba Ishrat

(Academician/Corporate/Research Scholar/Student) in the Research Paper Presentation held during International
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held at Amity University Noida.

The paper titled GUI Based Modelling and Simulation of Maximal
was worth appreciating for its efforts in generating, analyzing and presenting research content.


Prof. (Dr.) Gurinder Singh


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Modeling and Simulation of HH Equation of Neuron for Detection of Certain Neurological and Pathological Disorders

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ABSTRACT

Hodgkin–Huxley's (H–H) model of neuron was an experimental proof for analysis of some types of disorders linked with pathological and neurological events associated with neurons. The main aim of the paper is that the analysis of H–H model with bifurcations of parameters value how explains the detection of some diseases related with neuron. Such type of events are linked with pathological state of neuron can be analyzed by H–H model with ion concentration levels of different ions. The experimented H–H model with constant ion concentration and variable conductance parameters has been first considered to explore involvement of variable conductance parameters in the development and termination of some neurological disorders. Basic of the simulation model is Hodgkin–Huxley's conductance based model where of course the effects of sodium and potassium pumps as considered in ion concentration analysis. The results obtained have been successfully plotted and compared with

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Chapter 6

Strategies for Prevention of Antimicrobial Drug Resistance

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Abstract

Antimicrobial resistance (AMR) is a growing concern, causing increased fatalities in clinical and public settings. To combat antimicrobial resistance (AMR), various strategies have been proposed at national, municipal, and international levels. These strategies include the judicious use of antibiotics, restricting access to over-the-counter antibiotics, and enhancing infection prevention and control measures. Awareness of resistance mechanisms and advancements in new medications and vaccinations is crucial. Fighting AMR requires an interdisciplinary, cooperative, and regulatory approach. It is becoming increasingly difficult or even impossible to cure infectious diseases due to the ongoing evolution and global spread of antibiotic resistance, or, in a broader sense, AMR, which raises death rates. Despite the breakdown of traditional antimicrobial therapies, concerted efforts from all members of society are needed to minimize the problem. New strategies

* Corresponding Author's Email: radhamit2006@gmail.com

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Chapter 23

Nano Lipid Carriers: Revolutionizing Herbal Medicine for Enhanced Therapeutic Outcomes

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Prabhu Dayal Rajan^{1,*}

and Nitin Kumar²

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Abstract

Novel pharmaceutical formulations, known as nano lipid carriers, comprise biocompatible and physiological lipids, co-surfactants, and surfactants. Their substantial potential in the pharmaceutical and cosmetic sectors stems from their positive impact, encompassing enhanced bioavailability, skin hydration, and targeted skincare. The preparation of nano lipid carriers involves the use of dense lipids such as monoglycerides, fatty acids, triglycerides, waxes, and steroids. Examples of nano lipid carriers include liposomes, niosomes, phytosomes, and micelles composed of lipids and phospholipids. Utilizing herbal drugs loaded in nano lipid carriers offers a promising approach to treating various disorders. In our increasingly health-conscious society, there is a growing preference for treatments with fewer harmful side effects and greater therapeutic outcomes. The active ingredients in herbal drugs loaded into nano lipid carriers possess a larger active surface energy, increasing the potential for improved bioavailability and receptor selectivity binding. In conclusion, formulating herbal medicine in nano lipid carriers represents a potential direction for developing core treatments, offering a promising approach for addressing both pathological and non-pathological illnesses.

Keywords: herbal drug, nano lipid carriers, Liposomes, bioavailability, binding receptor, Pathological.

Abbreviations

NLC	Nanolipid Carrier
HLB	Hydrophilic-lipophilic balance
CPP	Critical packing parameters
TC	Transition temperature

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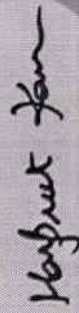
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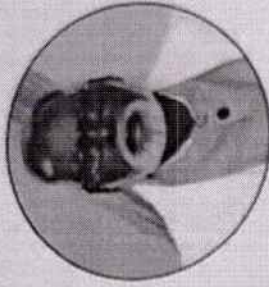




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