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Recent advances in the energy harvesting device technology using hetero-atom doped carbon nanotubes

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ABSTRACT

Carbon nanotubes, graphene, and fullerene are forms of carbon finding widespread applications in numerous fields such as energy storage devices such as batteries and fuel cells, cosmetics, construction, electronics, nano-pharmaceuticals, nano-biotechnology, military devices and equipment, construction, coatings, cutting tools, catalysis and many more. The huge technological advancements, globalization, and never seen industrialization can gain more momentum only with the ready availability of sufficient energy resources and their harvesting. Fossil fuels remained one of the most important primary fuels all over the world and now the shift is towards more use of non-renewable energy resources. At the end of the last century, Svante Arrhenius firstly proposed the interconnection between the increased concentration of gases such as CO₂ in the atmosphere and the rise in the average temperature through global warming on our planet. This effect gets pronounced effects in various other natural cycles too as observed through various natural events in the 21st century. There are several global warming gases, but the principal emission associated with this change is carbon dioxide. Due to such environmental issues, emphasis is on the use of non-conventional energy sources such as solar, wind, geothermal, ocean, etc. Besides such sources, extensive work is going on the use of fuel cells and modern battery technology using carbon nanotubes (SWCNTs and MWCNTs). Presently, various advanced batteries and fuel cells are being developed using CNTs on an industrial scale. In the last decade, efforts are taken to control the optical and electronic properties of CNTs incorporating hetero-atom (N, P, Si, S, Al, Ni, etc.) as a dopant for desired structural functionalization. The recent advancements in the field of energy harvesting devices (batteries or fuel cells) using hetero-atom-doped CNTs have been discussed here.
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Introduction

This decade has witnessed rapid development in the global quest for clean, sustainable energy due to unprecedented environmental changes, increased global warming issues, and an outburst of new technologies, such as smartphones and electric vehicles [1]. These developments have stimulated intense research interest in advanced electrical energy storage systems [2] along with the production of more energies using non-conventional energy resources. A market analysis continues to predict that advanced batteries most notably lithium-ion batteries [4], and supercapacitors

(also known as ultracapacitors) will dominate electrical energy storage technologies [5] for a plethora of applications, ranging from portable electronics to next-generation environmentally friendly technologies such as electric vehicles and smart grids. Batteries and supercapacitors are complementary electrochemical energy storage systems; the former is characterized by high-energy density [6], while the latter is known for high-power density [7]. Supercapacitors are most suited for applications that require charge-discharge cycle times ranging from a few seconds to several minutes [8], such as in microgrids [9], industrial control, power, intelligent instruments, etc. [10] In addition to their applications in electric vehicles and portable electronics, batteries, and supercapacitors are proving extremely useful in utility-scale energy storage [11]. Despite the growing interest in research and

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S1A-PP-01

Screening for Breast cancer associated factors among women of Nagpur city, Maharashtra, India

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ABSTRACT

Breast cancer is the most common female cancer worldwide including India. Breast cancer is the second most cause of death worldwide after lung cancer. Breast cancer risk factors have been examined extensively in women of more developed Asian cities/countries. In present study, we assess the knowledge, level of awareness of risk factors and screening practices especially breast self-examination (BSE) among women, considering the non-feasibility of diagnostic tools such as mammography for breast screening techniques of breast cancer in the Nagpur city, Maharashtra, India.

Keywords: Awareness, breast cancer, breast self-examination, knowledge, risk factor, screening.



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Bacterial load Determination using TaqMan PCR Approach: Standardization and Evaluation

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ABSTRACT

Present work is aimed to develop a rapid, accurate and reliable universal bacterial 16S rDNA quantitative real time TaqMan PCR assay determining bacterial load in the clinical samples of infectious diseases. Universal bacterial 16S rDNA was targeted for primers and TaqMan hydrolysis probe designing. The PCR conditions were standardized using *Pseudomonas aeruginosa* DNA. The standardized PCR conditions thus obtained were first evaluated with spiked samples and later clinical sample evaluation was done taking CSF samples and blood samples. Being quantitative assay, the cut-off value was found to be 100 copies of DNA through ROC curve while clinical sensitivity and specificity were 87.5% and 93.3% respectively.

Keywords: Quantitative Real Time PCR, TaqMan Assay, Universal 16S rDNA



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DIGITAL ECONOMY IN INDIA: OPPORTUNITIES AND CHALLENGES

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Abstract:

As the global economy is going digital, the scenario of the job market in the country and the world is also changing. There will be many jobs in the future whose names we haven't even heard about. New employment opportunities are increasing rapidly in India due to digitization. In this, due to automation, robotics, and artificial intelligence across the world, where jobs are decreasing in many areas, jobs are increasing in the digital economy. In five to ten years, when there will be a crisis of skilled labor force in the world, India will have a surplus number of the skilled labor force. In such a situation, India will be able to take advantage by sending a large number of the skilled labor force to many developed and many developing countries of the world. The Digital India program aims to transform the country into a digitally empowered society and knowledge economy. The objective of this research paper is to study the opportunities and challenges of the digital economy in India.

Keywords: Digital Economy, Digital India Programme, Electronics and Information Technology, Artificial Intelligence, Digitization, Digital Talent, Digital Skills

Data Collection Method Used for Research:

The research paper has depended on secondary data.

Objective of Research:

- 1) To study the opportunities of the digital economy in India.
- 2) To study the challenges of the digital economy in India.
- 3) To study the impact of digitally empowered society on the Indian Economy.

Introduction:

The Digital India program of the Government of India has promoted financial inclusion as well as the use of digital infrastructure. The plan to provide countrywide entree to digital infrastructure including high-speed Wi-Fi has given a boost to the digital economy in India. One of the notable reforms under the Digital India program is the Government e-Marketplace, a portal for government procurement, where MSMEs are facilitated to participate in procurement activities. The second phase of the digital economy is the growth of electronic and mobile commerce in India. The technologically savvy young generation finds online shopping to be the easiest way to purchase items. This has led to the extension of e-commerce and m-commerce in India. The amount of data increases at each level in the digital economy.

Our economy is going through a phase of understanding and analyzing such data. Keeping this in view, the Government of India has launched its own open data portal where data is available for analysis. Given the ever-increasing volume and strategic importance of data for the digital economy, the government is helping to provide training and research in the area of data analytics. In today's digital age, data privacy and equal access to the Internet are like clean air or clean drinking water. It has become a central pillar of the socio-economic and political dynamism of society. It would be better in the interest of the public that this pillar should be protected through laws as a collective right and the big data giants who have Big Data should be made accountable.



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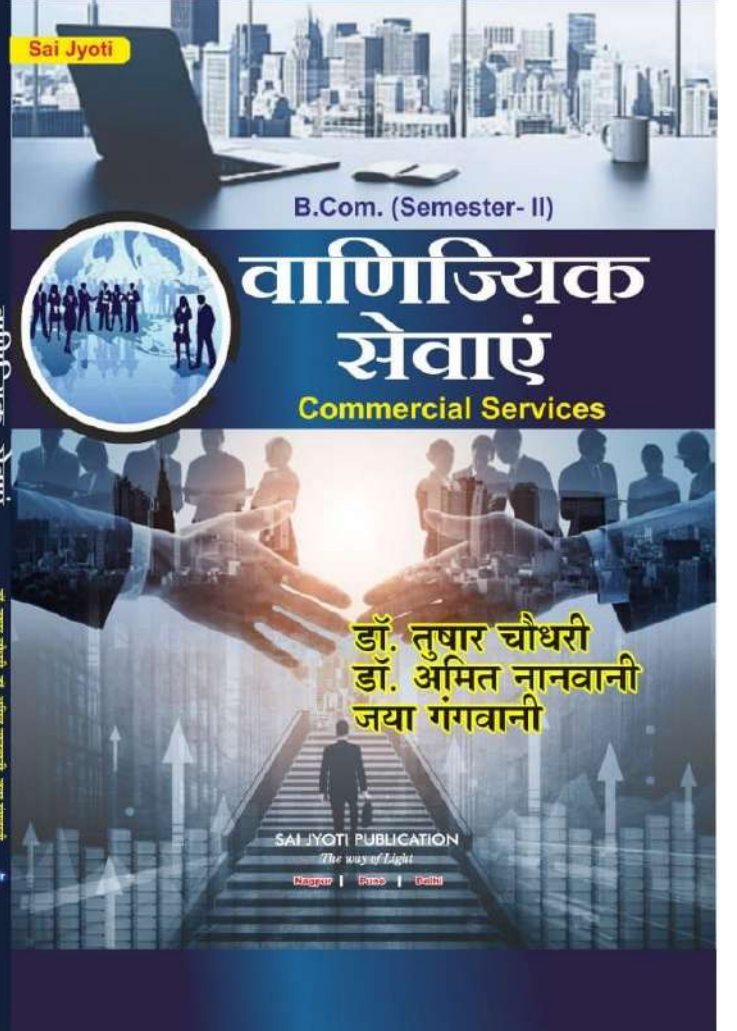
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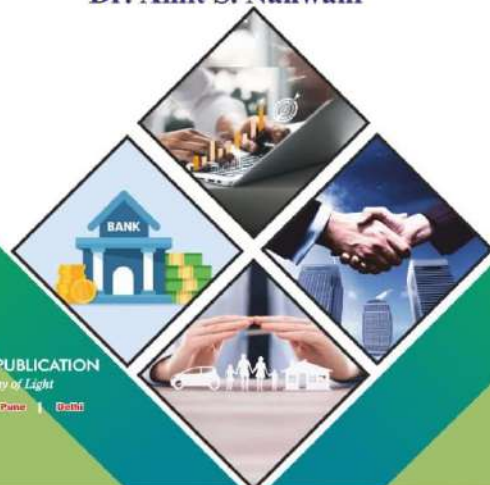
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This book of "Digital Marketing" provides detailed analysing of various aspects related to the digital or online marketing. The material in this book is designed to provide maximum flexibility of use for teachers and students alike. Each topic has been started with fundamental introduction and developed steadily up to the standard form. Exercises are also provided in this book. This book is useful not only for students who are pursuing their studies but also for those working in the educational institutions and corporate world.

About the Author

Dr. Sushil S. Gadekar is currently working as Assistant Professor at Dr. Ambedkar Institute of Management and Research, Nagpur. He has done Ph.D. from Amravati University and was on "Market Segmentation and Effective Marketing Strategies for Vidharbha Tourism" he has done triple Master in M.Com. from Pune University and MTM, Master in Tourism Management from IGNOU. He is an MBA from YCMOU. He has presented paper in 3rd Dubai International Conference on Higher Education, organized by Michigan State University in 2015. Two Scopus paper also under IGI global one case study on google lives on 39 dollars with citation. He has attended many National & International and has published more than 15 Research Papers. He has 22 years Academic experience in many positions ranging from Professor to Dean of commerce and Management. He has done Hotel Management and his name is in Guinness book with made 3 and Half Kilometers cakes in Dubai 1995. Performed many Shows on Z. Marathi with Cine Actor Mr. Prashant Dhanle Anil Sate Khawaye. Working as Consultant in Hospitality Industry from last 15 years, with the academics.

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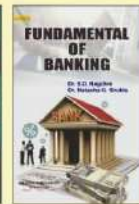
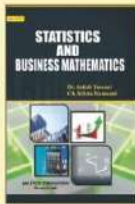
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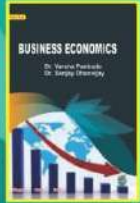
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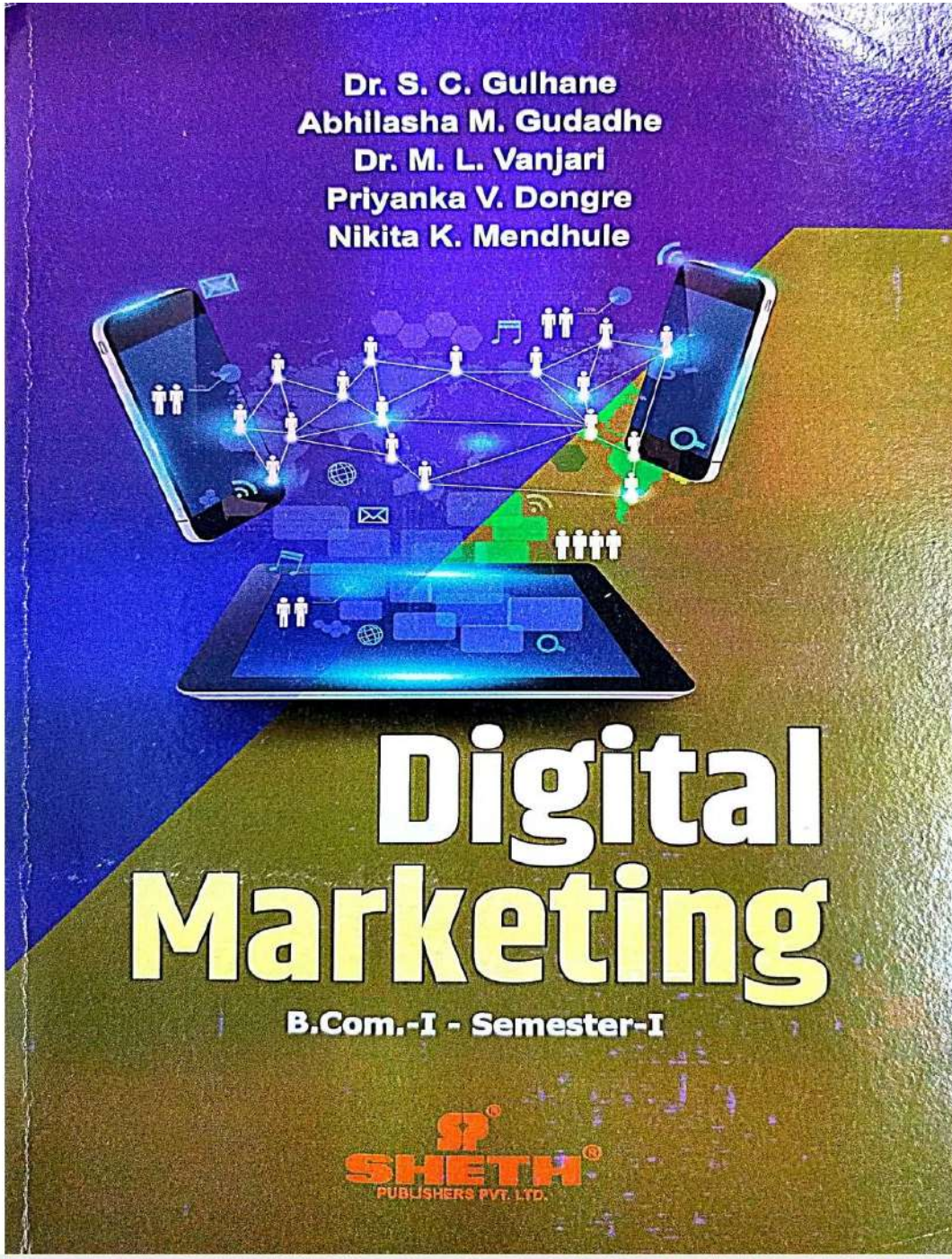


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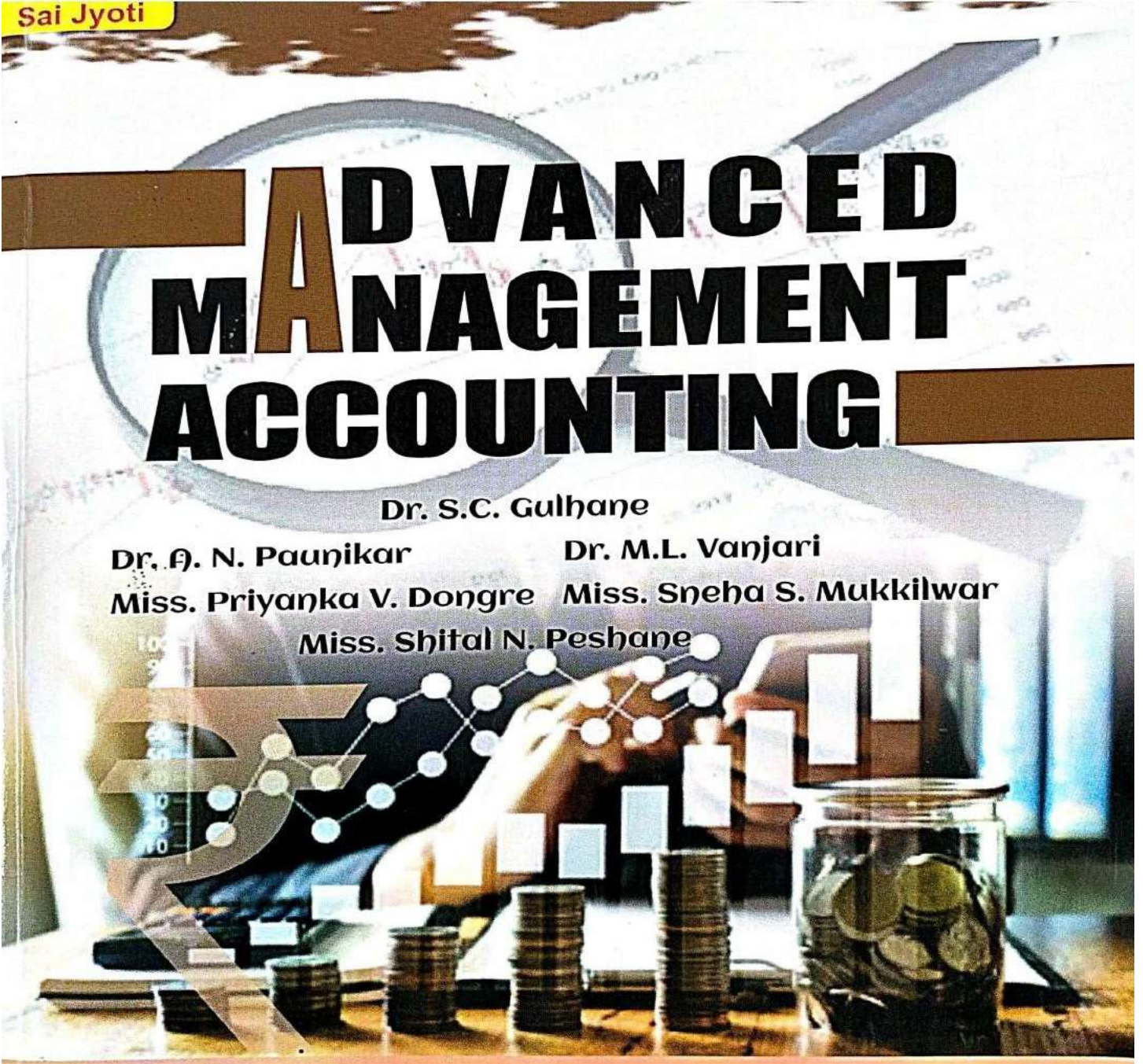
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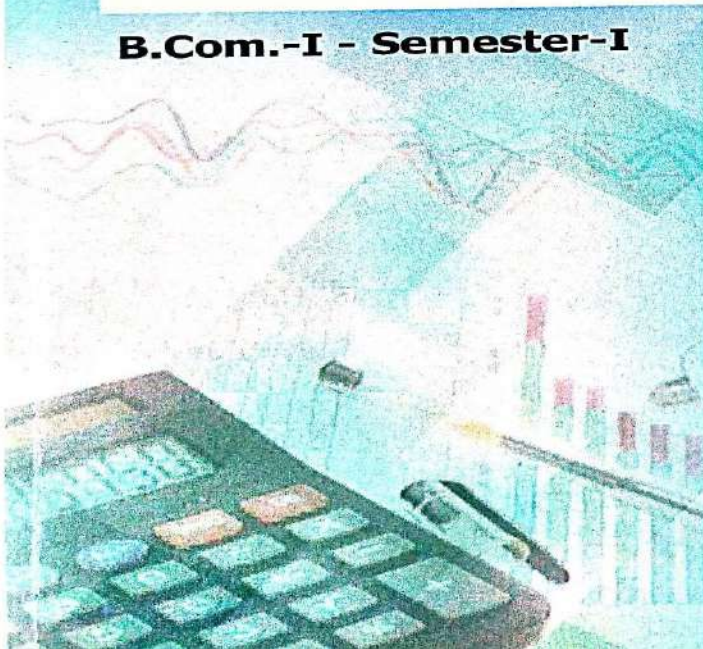
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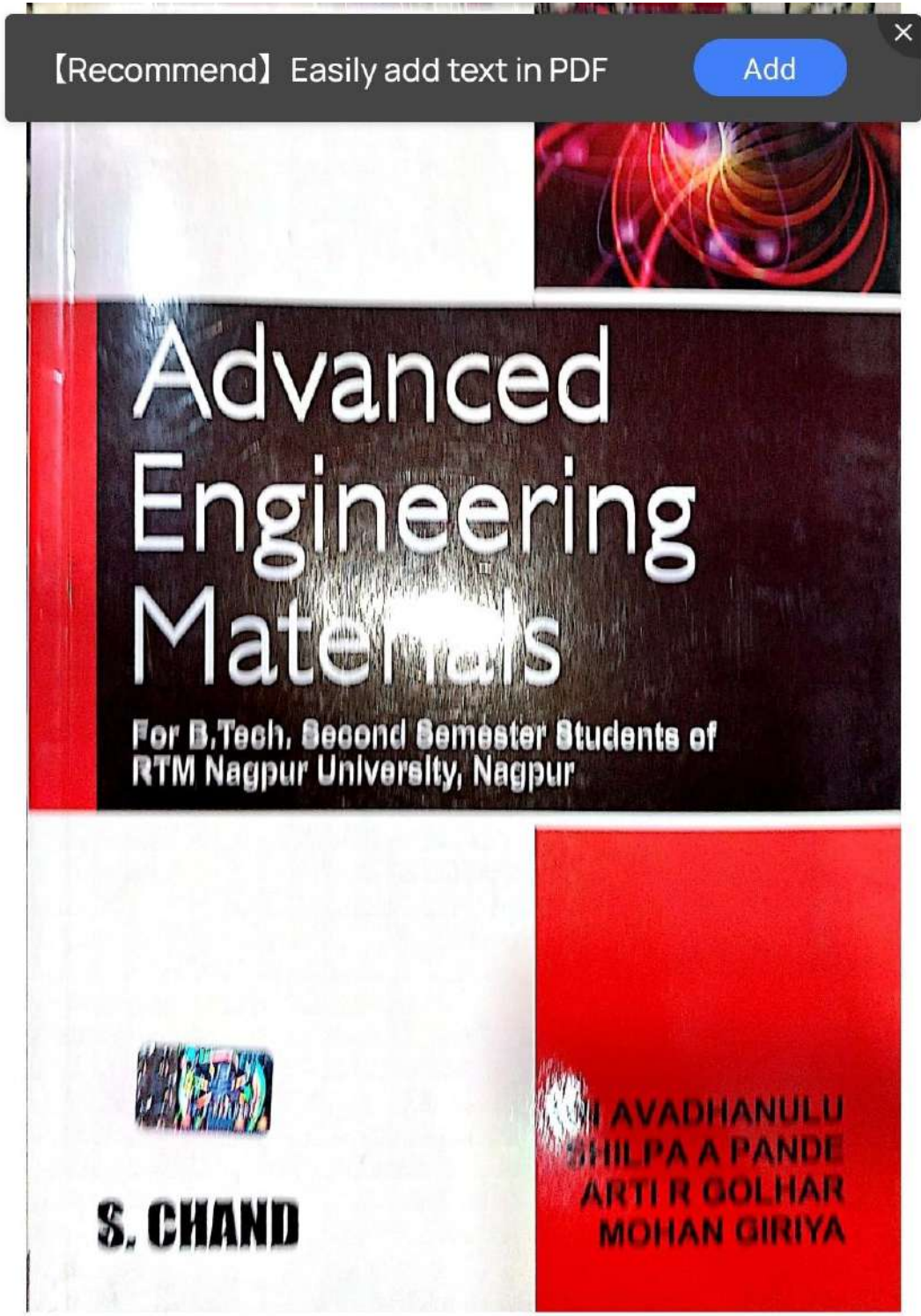
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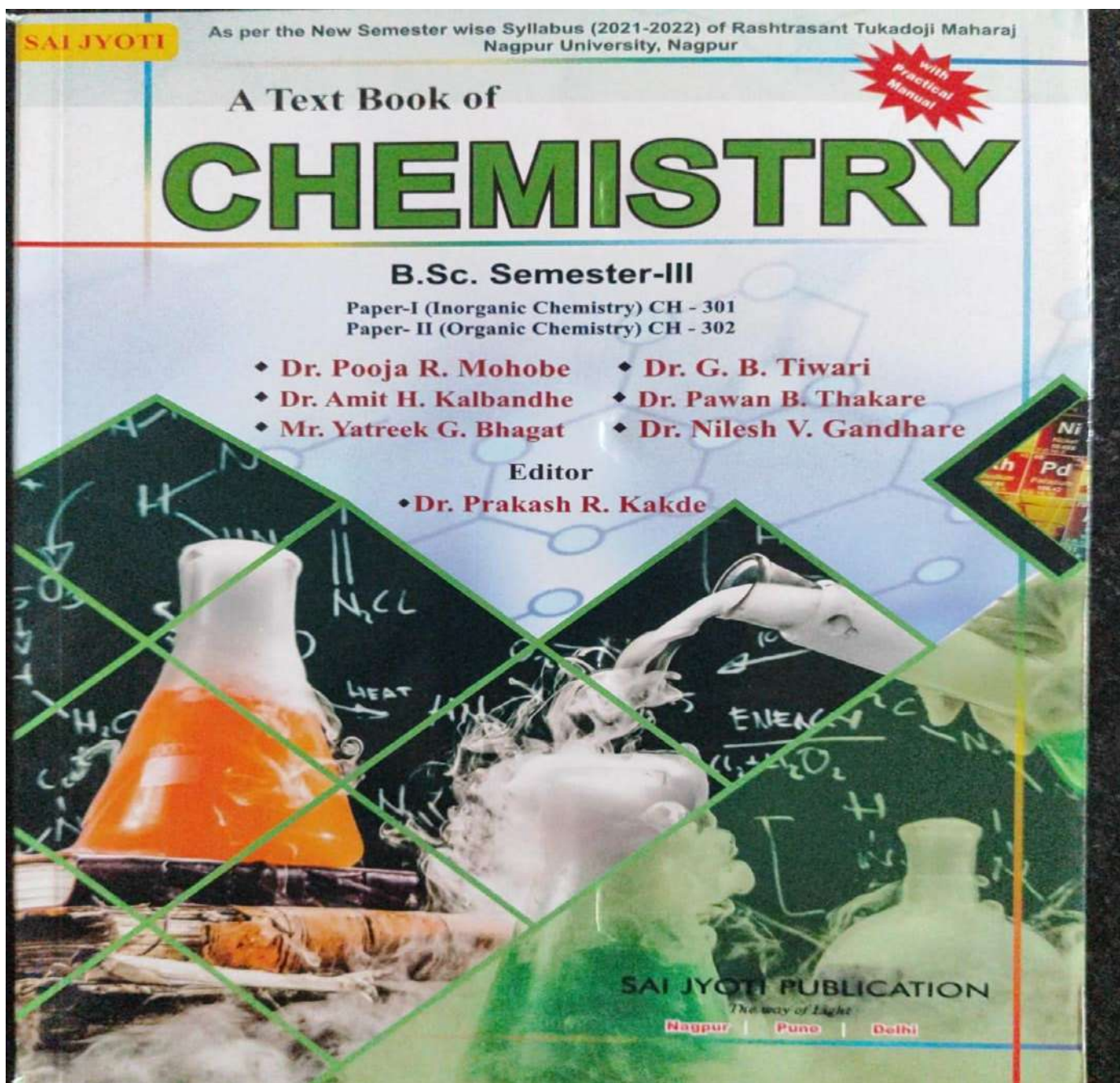


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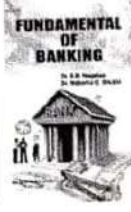
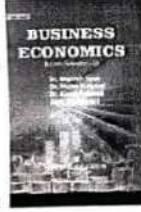
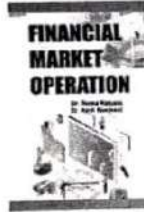
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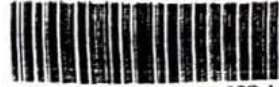
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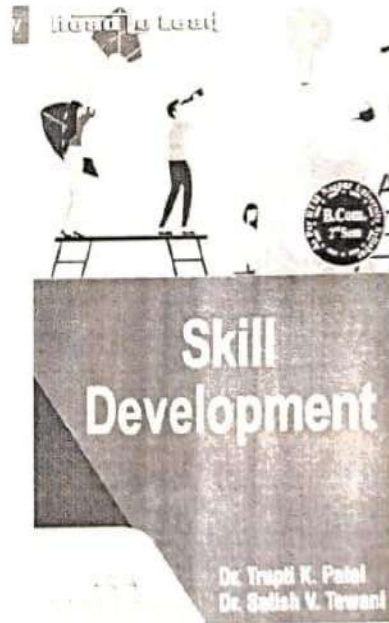
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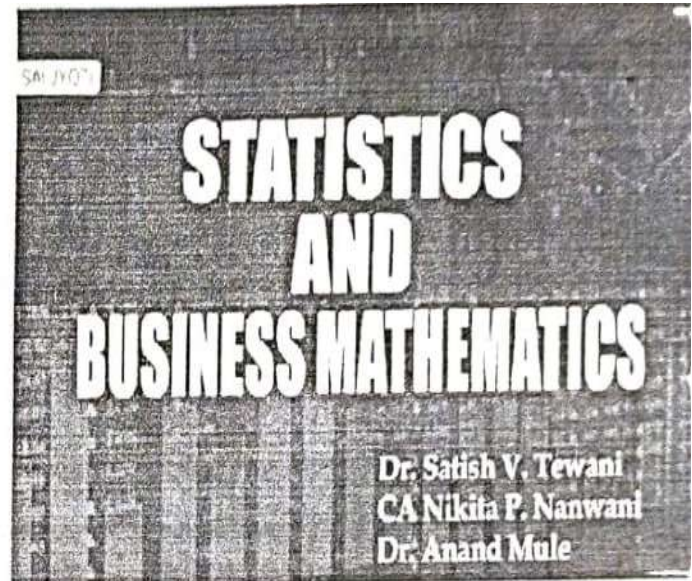


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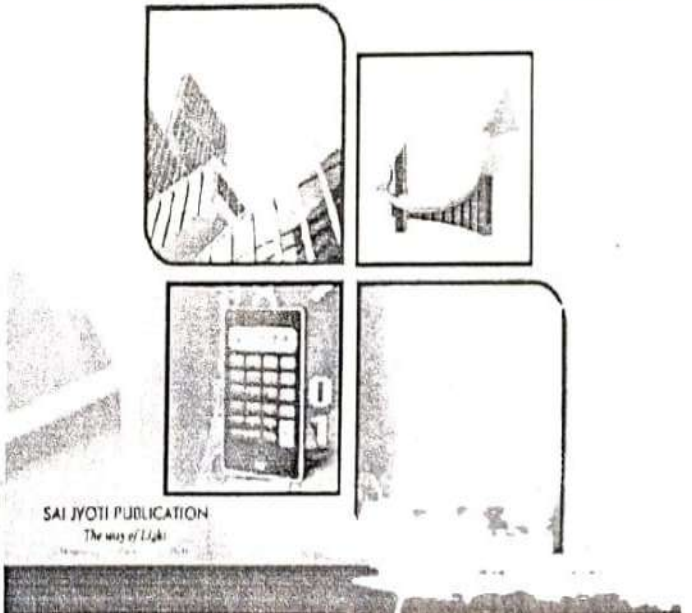
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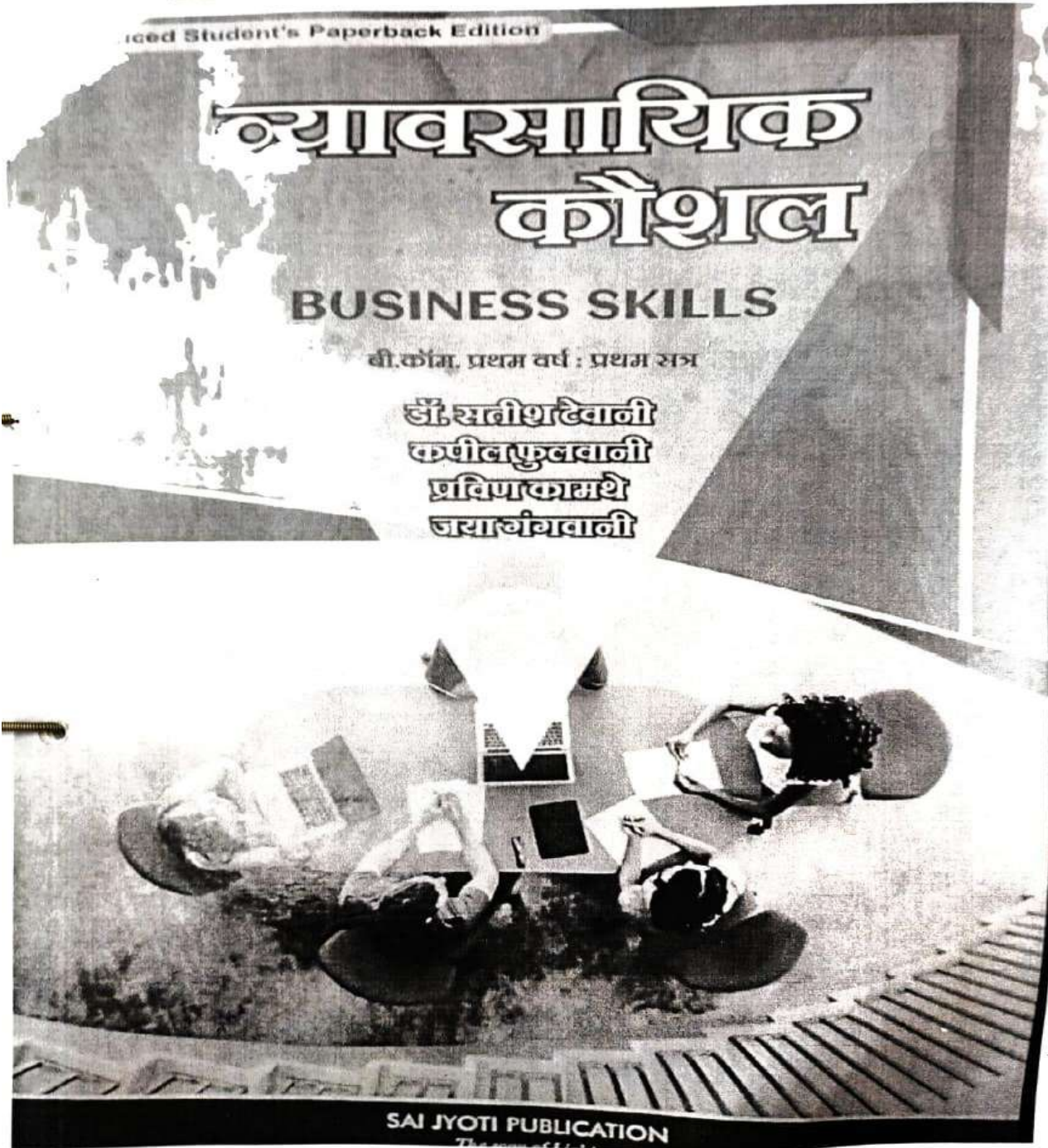


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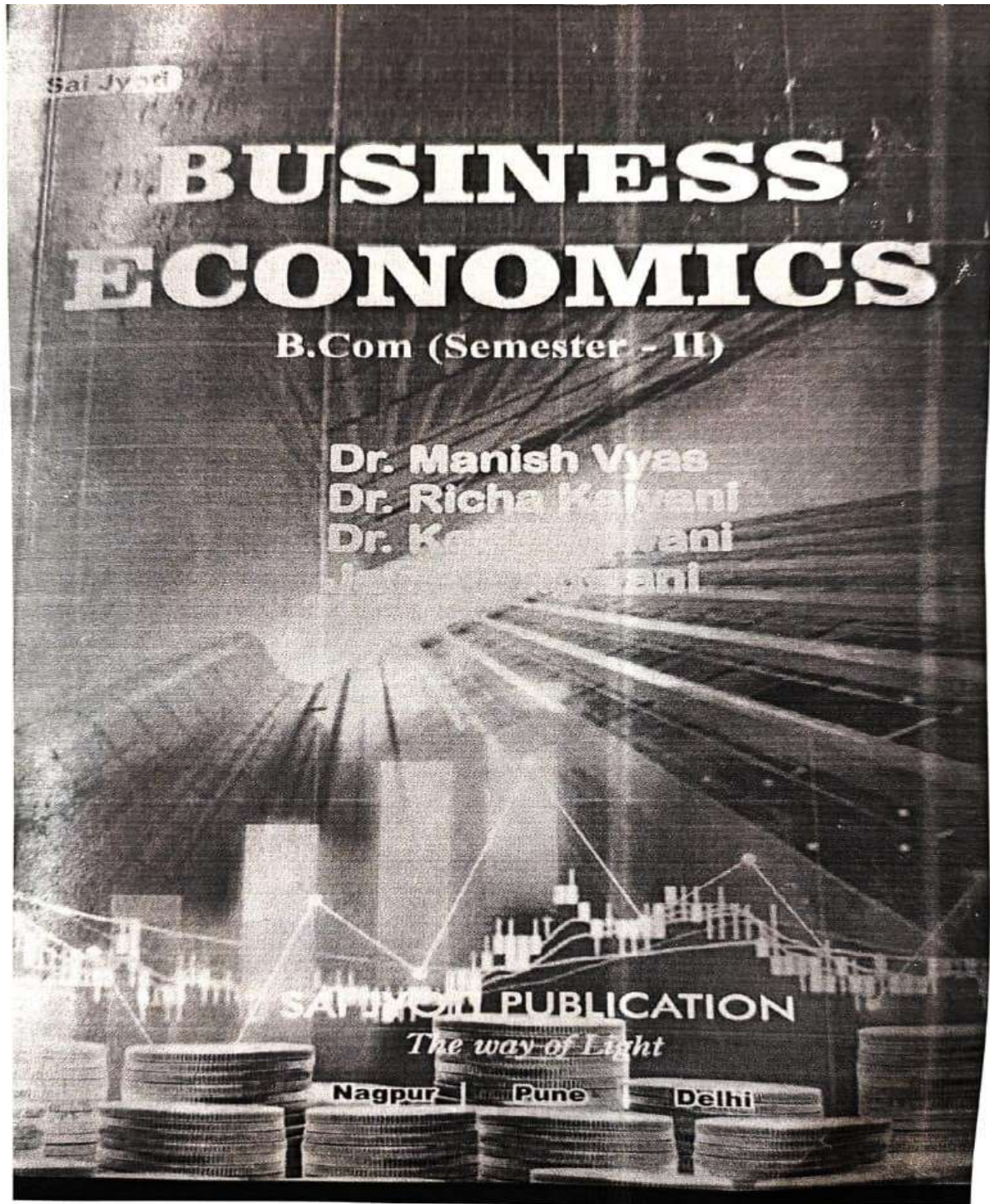


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6. Successful Path Followed by Women to Achieve Women Empowerment through Entrepreneurship

Himani C. Pandhurnekar^{1*}, Babita G. Yadao¹, Doyel M. Bhattacharya¹, Zeenat N. Kashmiri², Ramakanth Pagadala³

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In our society, the gender stereotypes decide the role of women. Based on that women are expected to play a significant role only in the sections such as labour power and other lower zone works due to which their economic role and contribution is difficult to predict in the structure of the development of society. Now-a-days the part of women as business holders is progressively growing all over the world. Entrepreneurship is considered as an essential part of economic development. Entrepreneur is the leading factor of entrepreneurship. From the beginning, entrepreneurship has been a male-dominated phenomena, but time has changed and brought women to the forefront as today's most memorable and inspirational entrepreneurs. Entrepreneurship is the way of the future in today's society. Entrepreneurs are persons who come up with new ideas and developments, which are crucial for a company's growth. In the context of women's development, empowerment is a means of defining, challenging, and overcoming constraints in a woman's life so that she can better influence her life and environment. It is a multifaceted, dynamic process that should help women to fully realise their identity and authority in all aspects of life. Women's entrepreneurship empowerment is an innovative success mantra for India's economic development. In countries like India, women's entrepreneurship has resulted in their freedom. Women's entrepreneurial development is a means of empowering women. Women become more empowered, personally and economically, as a result of empowerment, as they become more aware



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THREE PILLARS OF SUSTAINABILITY: SOCIAL, ECONOMIC AND ENVIRONMENTAL

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ABSTRACT:

The three pillars of sustainability (social, economic and environmental) commonly represented by three intersecting circles with overall sustainability at the centre, has become ubiquitous. The study indicate overall positive attitudes toward three pillars of sustainable development. The concept of sustainable development has become a top priority for local, regional, and global organizations. Sustainable development should become a basis practice for everyone in the world, including business organisations, the university system, families, and government agencies. The usefulness of sustainable development relies on the increasing interest in three pillars.

KEYWORDS: three-pillars, sustainable development, environment, social, economic and organizations.

INTRODUCTION:

Sustainability is a social, economic and ecological concept. Sustainability means of configuring civilisation and human activity so that society members are able to meet their needs and express their greatest potential in the present and future by preserving biodiversity. Sustainability affects every level of organisation, from the local neighbourhood to the entire world. In other words, sustainability help by providing best for people and the environment both now and in the indefinite future. Nowadays people object to the term "sustainable development" as an umbrella. Sustainability development term as it implies continued development, and so the objectors insist that it should be reserved only for developmental activities.



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Abstract

Although photovoltaic devices have been evolving for several decades but early 1990s witnessed an interesting development that of dye-sensitized solar cells (DSSCs). DSSCs significantly impacted further course of development of newer solar cell technologies. These photovoltaic devices (DSSCs) were radically different from all those that had been existing before. Though efforts had been made to use dye-sensitized photoelectrochemical cells to convert light into electricity in the past, it was with



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Abstract:

The sustainable development can be support through the development of biodegradable materials. The overuse of compound materials from fissile sources has generated an oversized volume of waste that causes environmental impacts because of the degradation time. Green materials offers a unique characteristic and properties including abundant in nature, less toxic, economically affordable and versatility in term of physical and chemical properties. Green materials can be applied for a numerous field in science and technology applications including for energy, building, construction and infrastructures, materials science and engineering applications and pollution management and technology. The technological advance has excited explore for alternatives that may contribute to property. In this context, the use of biodegradable polymers, that uses raw materials from renewable sources stand out because they have that ability to form films and come from abundant sources. Also, within the expectation of optimizing the environmental edges during this method, it's doable to price the agro-industrial residues, victimization them as material within the synthesis of the compound, the physical, chemical and mechanical properties of those polymers area unit necessary to judge the doable applications. In this study, the current research on renewable sources, including agricultural and industrial residues, to obtain biodegradable polymers, highlighting their properties and application.

Keywords : Biodegradable, Renewable, Sustainable development, Polymer.

Introduction

Polymeric material presently plays a vital role in way of life which have distinctive range of properties. Compared to alternative ancient materials, plastics supply several blessings, like performance and flexibility, durability, lightness resilience to corrosion, easy process, high productivity, low cost, environmental facet, etc. Innovation in plastics can therefore build a valuable contribution to increasing economic process and quality of life and facilitate to unravel environmental issues. Now, there's a noteworthy increase within the potential use of perishable polymers in numerous areas like medication, pharmacy, agrochemistry or the packaging trade. Attributable to their wide-ranging properties, each artificial and nature chemical compound materials perform an important and present role in way of life. Having a amount of effectiveness, biodegradable polymer materials break the development of biodegradation. it's valuable to tell apart between biodegradable polymer materials on the idea of their origin: native or artificial. Native biodegradable polymer materials represent the synthesis developed throughout a protracted course of evolution in nature. Each leading

to materials possessing tailored characteristics for various applications. They embrace proteins (collagen, gelatin, and albumin), polysaccharides (cellulose, chitin, and alginate), nucleic acids, and ranging properties, each artificial and natural chemical compound materials perform an important and present role in way of life. In the perspective of sustainable development, biodegradable polymers can be considered as safe for the environment, and are an interesting alternative to conventional polymers[1,2]. There are huge sources of biodegradable polymers, which are from natural polymer to synthetic polymers. Natural polymers are obtained from renewable sources in huge quantities and synthetic polymers are obtained from non-renewable sources i.e. petroleum resources [3,4]. Variety of perishable polymers is developed in recent decades. With relevance the origin of the stuff they are divided into two groups: i) perishable polymers from renewable resources (e.g., polymers of microbiological origin similarly as artificial polymers from renewable monomers) and ii) perishable polymers of non-renewable/fossil resources[5]. Natural polymers area unit out there in massive quantities from renewable sources, whereas artificial polymers



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NEW ADVANCEMENT OF BIOSENSOR FOR ENVIRONMENTAL MONITORING: A REVIEW

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Abstract –

The growing variety of pollutants needs the improvement in innovative analytical devices that are precise, sensitive, specific, rapid, and easy-to-use to satisfy the increasing demand for legislative actions on environmental pollution management and early warning. Optical biosensors are a strong alternative to traditional analytical techniques, change the highly sensitive, real-time, and high-frequency pollutant monitoring without extensive sample preparation. The necessity of portable, rapid, and sensible biosensing devices explains the new recent development of biosensors with transduction materials, prepared from nanotechnology, and detection of multiplexed pollutant, involving multidisciplinary experts. This article reviews important advances in functional biorecognition materials like enzymes, aptamers, DNazymes and antibodies that facilitate the various applications of optical biosensors and advancement in biosensors for the monitoring of pollutant in air, water, and soil in real conditions (such as pesticides, organic molecules and potentially toxic elements).

Keywords: Nanosensor, Optical biosensor, Environmental pollution monitoring, Pollutant, Pesticides.

Introduction

Environmental Monitoring Biosensors involved immunosensors, genosensors, aptasensors and enzymatic biosensors are reported for the detection and monitoring of assorted environmental pollutants, using antibodies, nucleic acids, aptamers, and enzymes as recognition components severally. Biosensor is one of the analytical devices that integrates a biological detector (e.g., an antibody or enzyme) with a physical transducer, whereby the interaction between the target and the bio-recognition molecules is translated into a measurable electrical signal [1]. Optical biosensors that exploit fluorescence, light absorption, luminescence, Raman scattering, reflectance and refractive index are powerful alternatives to

traditional analytical techniques. These biosensors provide fast, high sensitive, real-time and high-frequency observation without time-consuming sample concentration and/or previous sample pre-treatment steps.

Though optical biosensors have nice potential applications within the areas of biomedical research, drug development, environmental monitoring, food safety, and diagnosis [2-8], their use in fields of environmental pollution management and early warning remains within the early stages. The analysis on the development of biosensors for an environmental monitoring of organic pollutants, pathogens and probably toxic components has been contributed to the defendable development of community due to the problems of



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Dawn of Women Empowerment and Entrepreneurship

10. Problems Faced by Women at Workplace

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Women's issue speaks about the equal rights and the participation of women in the society. Women have been trying to break away from norms and standards set by society. They have been marching for equal rights and fighting for their rightful place in the society. The intention of women's issues refers to gender-based violence or the struggles made by Men. Women's Issues mainly includes the human rights, security for women. Women come across barriers in their workplaces which were not fully exposed in the society. Women face problems not only in their family but also at their workplaces too. Women are treated as humans who should serve their husbands till their last breath. Society is not ready to accept women with dreams and aims and if women tries to express their wishes or dreams, than society is not ready to give her a chance to prove it. Women were created as servants as they want to live under the shadow of men. Women continue to remain underrepresented at every level, starting from entry-level jobs to C-suite roles. There was some quantity of women who comes to work for her family and for her children. If she enters into workplace she begins to face the problems which happen to her in the workplace. It is not only women who face the problems at her home but in her workplace also. So that women tries to break away the obstacles which were happening in her workplace. She tries to break the point of view that women will be silent in all the problems made by men and so it will be easy for men to harass women in her workplace. Women was fighting for her rights and fighting for her place in the society. Many researches made to know the

ity of women in the workplace.





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3. Women Empowerment through Entrepreneurship in Nagpur Region of Vidarbha

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Earlier women entrepreneurship was confined to culinary activities however with growing awareness women of today are chartering different fields due to their ability to work hard, develop innovative ideas, and multitasking nature. Empowering women will contribute to the economic development of the country. However, finance is the major problem faced by women entrepreneurs, especially in the Nagpur region. In this regard, the new government funding schemes for women entrepreneurs have been discussed. The paper studies inspiring stories of some amazing women entrepreneurs of the Nagpur region that have set benchmarks in their chosen fields.

Women empowerment means that women are empowered to think, dream and do whatever they aspire for while women entrepreneurship refers to business or organization started by women or a group of women. Women entrepreneurship is synonymous with women empowerment. There was a time when women's entrepreneurship was regarded as the extension of culinary activities mainly to the 3 Ps-Papad, Pickles and Powder. But with growing awareness women have now shifted to 3 Ps-Production, Progress, and Prosperity, and have scaled heights in Electronics, Engineering, Garments and Jewellery. Some successful women entrepreneurs of the country are Vandana Luthra, founder of VLCC, Kiran Mazumdar-Shaw, Managing Director and Chairman of Biocon, Suchi Mukherjee, Indra Nooyi, board member of Amazon, Founder and CEO of Lime Road, Falguni Nayar, founder of Nykaa, Aditi Gupta, founder of Menstrupedia, Shahnaz Hussian, founder of Shahnaz Herbals, Ms. Selina Ahmed, founder Selina Exports Pvt. Ltd, Nagpur.



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CELEBRATING GOLDEN JUBILEE YEAR

Dawn of Women Empowerment and Entrepreneurship

13. Modern Women Progression towards No Discrimination in Moving Media on the Basis of Sex

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A struggle of thousands of years for a modern woman is still visible as to be acceptable as a working woman that can lead the modern world. It is also a fact not to deny that women empowerment contributed a lot by breaking bias through the media which gave a vision of modern women. If talk about history, feminism movement started with men empowerment injustice to women. But a revolution given by the media has speeded up the concept of modern women since the 1950s. No doubt education and literature has given awareness of equality. But to become a modern independent woman with wisdom was a long struggle. A credit for the present situation should be given to motion pictures which have given a vision of equality apart from being an entertainment resource. This is not only for India but also true for worldwide cinema.

Early feminism in movies was based showing women rights in society. Here we are talking about cinema worldwide facing a transition from black and white into color. Be it the most legendary movie *The Women* (1939) where no male actor is seen in the movie which was a revolution in women empowerment itself. I think still no one can imagine such work. Or if we talk about *Sadhna* (1958) where a helpless prostitute's struggle with society is picturized; or *Two Women* (1960) a journey of mother and daughter who are robbed and raped. And of course *Mother India* (1957) which itself was a remake of *Aurat* (1940) showing the struggle of a widow villager woman against greedy society. *Dahej* (1950) a movie based on dowry and its negative impact on the life of a married girl actually forced Parliament of India to finally declare later mandatory education for women. These movies showed how women are mistreated by a male dominating society and given an insight to generations to have equality for a better future.

After the 60s and 70s where we found educated women, working women was still a concept not widely acceptable by society. *Breakfast at Tiffany's* (1961) was an iconic movie to represent an independent woman. While in Bollywood *Tapasya* (1976) movie portrayed how a working woman can change the fate of her family. This was the Era where parallel cinema was gradually becoming popular. Educated woman was not ready to accept injustice, infidelity, disrespect and sexual harassment. Education made women realize their rights as humans. And obviously that was a time when movies started showing reality to give awareness of the problem in society. If we talk about Indian Cinema, and especially in the 70s and 80s, most of the movies were centered on topics which were questions about society and women's freedom and empowerment. Toxic marriage, post marital affair trauma, suppression of women talent, illegal child birth, all these issues are nothing but a distortion in society and these issues demand freedom of thoughts and decision by women. We can see this in *Guide* (1965), *Arth* (1982), *Bazaar* (1982), *Mandi* (1983), *Trishul* (1978) and *Rihaae* (1988). Suffocation of women due to male dominant society rules demanded a change. It was an international issue indeed. *My Brilliant Career* (1979), *Jeanne Dielman* (1975), *Leeds - United!* (1974) and many more are examples of this revolution. Though *Lamhe* was a movie (1991) to show that an odd age difference in a relationship should be accepted for better life, its acceptability by society at that time was still a tough decision. However, with time we saw legal divorce acceptability, single mother respect, a better family concept with working women and marriage not by age pressure but for better family future. Child adoption and acceptability of abortion have given a better generation today making women decision priority [1 -3].

Since the early 70s, suddenly we observe a flood of movies considered to be women centric. This may be a reflection of women empowerment in world politics. But in any case, a female as a leading actor created a sensation not only in the cinema world but also in human society. Talking about *Fargo* (1996), *Clueless* (1995), *Thelma and Louise* (1991), *The Color Purple* (1985), *Growing up Female* (1971); we have such an endless list where the whole movie is centered to show fearless,



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Innovational Story of a Renowned Woman Entrepreneur and Innovator of Nagpur, Maharashtra

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In a country like India, we need to move away from a paradigm of job seekers to job creators where approximately 12.8 million people enters the job market every year^[1]. It is imperative that a sizeable chunk of these job seekers venture into an entrepreneurial activity so that not only do they make a living for themselves but also create job opportunities for others, produce new and innovative products and services and drive greater upstream and downstream value-chain activities. Most of the women entrepreneurs in India are mainly engaged in conventional enterprises like handloom and handicraft jam or jelly, pickle making, bakery units etc. There is need for women to go beyond the conventional sectors and look out for opportunities based on resources and skills available in the state. The economist of India to a great extent, have realized the potentialities of women. One such state which welcomes women entrepreneur and its innovation is the state of Maharashtra. Women entrepreneurs of Nagpur are creating jobs, innovation and contributing various economies as much as their male counterparts.

Entrepreneurship based on innovation has immense growth potential. Schumpeter (as cited by Erik Stam, 2008)^[2] distinguishes four roles in the process on innovation; the inventor, who invents a new idea, the entrepreneur who commercializes this new idea, the capitalist, who provides the financial resources to the entrepreneur (and bears the risk of the innovation project), the manager who takes care of the routine day to day corporate management. What makes entrepreneurs different from a normal business is a focus on developing innovative solutions for the problems hence a problem-solving aptitude is an important factor to develop Entrepreneurship.



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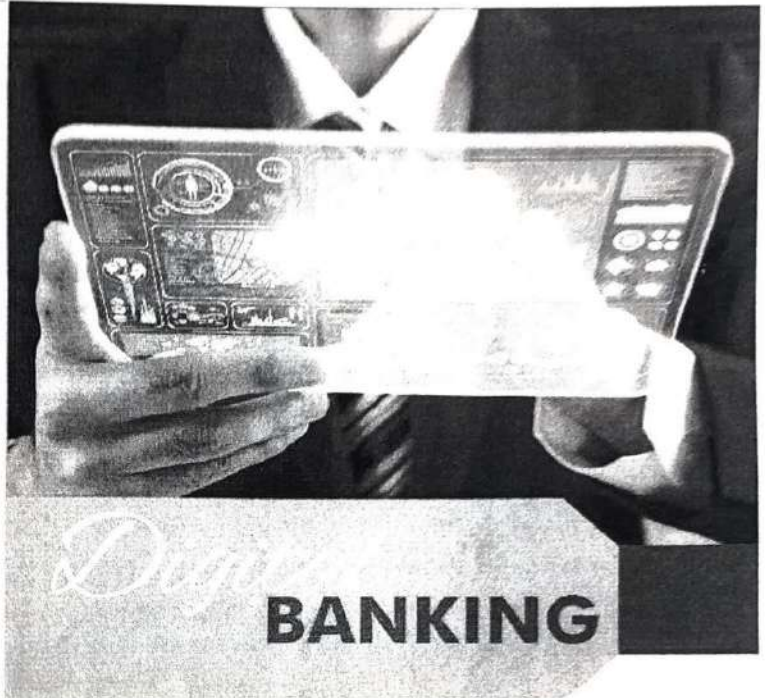
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Dr. Shraddha Anilkumar is currently Principal Dayanand Arya Kanya Mahavidyalaya. A seasoned library professional having over three decades professional standing, she holds holds B.Sc., M.Lib, Comp. Info Sc., Ph. D. (Lib. Sci.) and M.A. (Sec) degrees besides diploma in Russian Language. She was Head, Learning Resource Centre at Dayanand Arya Mahavidyalaya from 1999 to 2018. She has published several papers in seminars, conferences and journals at state, national as well as international level and has papers in 7 journals with impact factor above 1.0. She published 5 books at National level and a book at international level entitled 'Learning in Library and Information Science Education' was widely acclaimed. She has completed Major Research Project. She was the convener of several national conferences sponsored by UGC and has edited two National Conferences proceeding with ISBN number. She had been invited as resource person in National Conferences at different universities and colleges. She had worked in VC, non-merit support aspect in several committees. She was also appointed as a member of Advisory Committee for UGC sponsored conferences. A multi-spectral person she has been associated with many co-curricular and extra-curricular activities. She is a member of different professional bodies such as RA, ACP, NFJCTO and MLSC.

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study also attempts to analysis the budget for growth and job opportunities in Digital Banking in India. The entire research study and findings are based on the objectives.

Keywords: Digital Banking, Changing Scenario, Future prospects.

INTRODUCTION

Digital banks are exclusively online-based banks. This sort of banking offers all types of financial services but, unlike physical banks, does not have any branches. These days, the nation and the world are observing the popularity of this sort of banking. Experts in the banking industry claim that digital banking in banks is only getting started and it will rise at the skyrocketing speed. Aside from digital banking, all activities are being conducted entirely digitally in practically all modern banks.

At the present scenario Indian economy has taken a comprehensive form. Banking, Finance, Trade, Investment, Trading, Commerce, Marketing, Debt etc. is part of all economy. Banking system is the bloodline of any economy and banks are the trustees of public money. In the last few years, the banking sector has been undergoing a structural change. Challenges and changes are going hand in hand. Owing to technology and digital innovation the delivery of financial products and services is now more productive, efficient, and competitive. The unexpected prolonged continual lockdown in country during Covid-19 pandemic, the usage of digital payment platforms has increased manifold. People began and moved to digital banking as a result of the paucity of cash in the nation after demonetization; everyone heard about it and encouraged it.

While it is undeniable that the Covid-19 Pandemic has resulted in widespread digitization across businesses, the unexpected prolonged lockdown has also significantly boosted distant and online buying, which has raised the use of digital payment systems. Cash usage fell out quickly, and the development of payment technologies by non-bank competitors hastened the

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CHAPTER - 2

A STUDY OF FUTURE PROSPECTS OF DIGITAL BANKING IN INDIA

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ABSTRACT

In today's world the economic scenario is changing very fast. At the moment Indian economy has taken a comprehensive form. Banking, Finance, Trade, Investment, Trading, Commerce, Marketing, Debt etc. is part of all economy. Banking system is the bloodline of any economy and banks are the trustees of public money. In the last few years, the banking sector has been undergoing a structural change. Challenges and changes are going hand in hand. Owing to technology and digital innovation the delivery of financial products and services is now more productive, efficient, and competitive. The unexpected prolonged continual lockdown in country during Covid-19 pandemic, the usage of digital payment platforms has increased manifold. Cash usage rapidly declined, and the emergence of payment systems by non-bank rivals sped up the pace of digitizing banking operations. No doubt, there are various challenges and risks to overcome for the success of digital banking in India. The Indian Government's efforts to encourage digital banking in India, budget for digital banking was also allocated. The RBI and NITI Aayog also took the initial steps to establish a regulatory track for digital banks. The banking of the future will be completely changed. Digital medium is the only way forward. For benefit of the government scheme can reach everyone then digital banking is the alternative. Young people now have more job options in this sector because to the prominence of transactions made through digital banking. Youth with technical talents in this area will be increasingly in demand in the future days. Digital banking also contributed to the delivery of an improved customer experience, which in turn led to an increased rate of adoption. Smartphones and Aadhaar are playing crucial roles for paperless banking system in India. This study aims to study the future prospects of Digital Banking in India. The

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Dawn of Women Empowerment and Entrepreneurship

4. Gender Studies: Breaking the Bias Related to Transgenders in the Indian Movie "Chandigarh Kare Aashiqui"

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Indian English literature and films have successfully portrayed the saga of suffering of the transgenders who have to face social discrimination all their lives. They have to bear the brunt of fate for no folly of theirs. Other than the four genders masculine, feminine, neuter and common, there are many other types of gender. But there is a lack of information regarding all these types of gender in the society. The transgenders are commonly known as LGBT community.

LGBT community

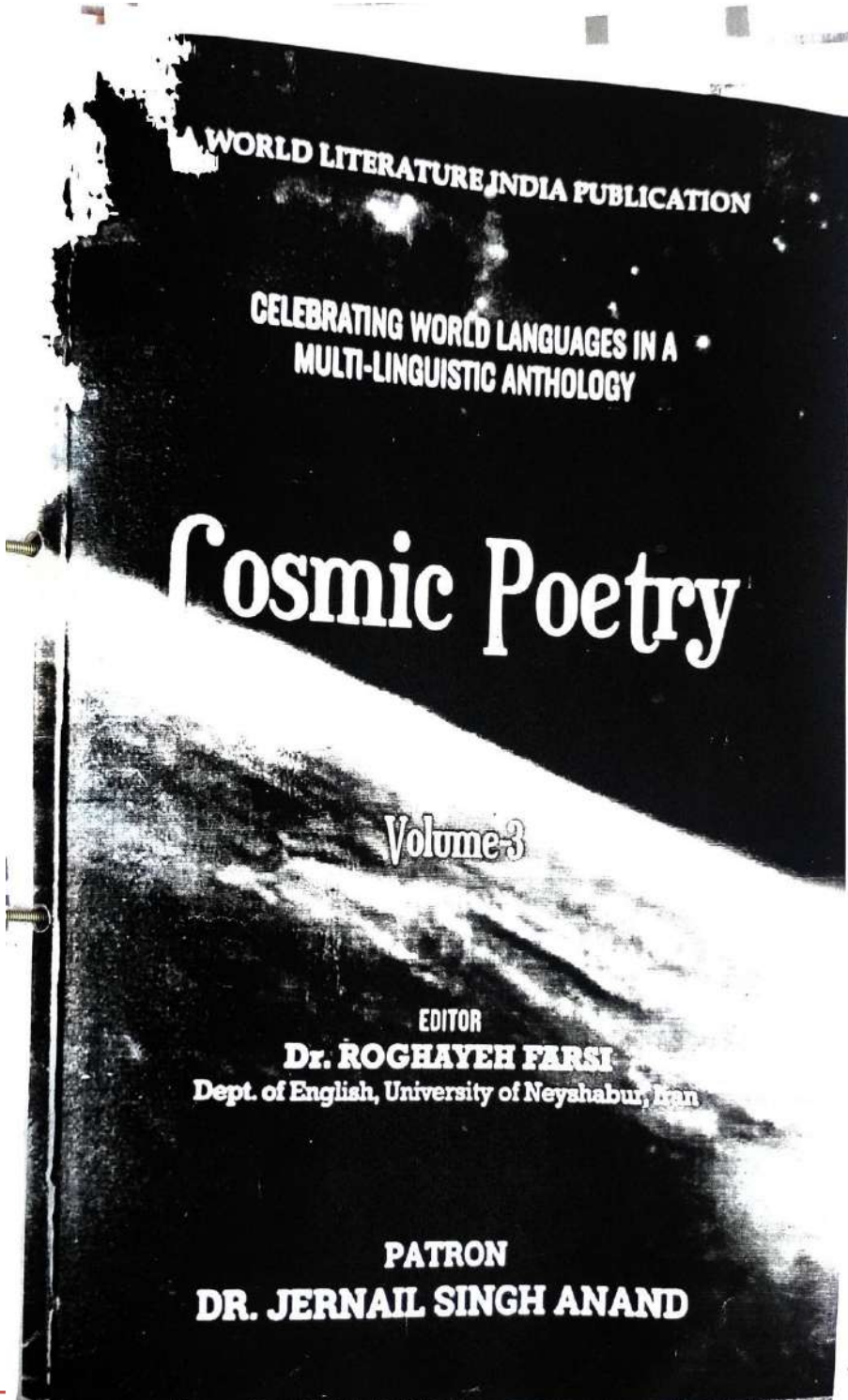
The stringent Indian societal system still does not fully acknowledge the presence and rights of the transgender community popularly known as LGBT community. According to an article 'What are the four genders', an online article, "Very little is known about the transgenders. There are many types of genders like agender, cisgender, genderqueer, transgender, genderfluid and gender nonconforming (www.medicinenet.com). "The society is yet to understand the differences in these types of gender and have a biased view against these persons. According to wikipedia- "LGBT is an initialism that stands for lesbian, gay, bisexual and transgender- an umbrella term for sexuality and gender identity. It refers to anyone who is non-heterosexual or non-cisgender, instead of exclusively to people who are lesbian, gay, bisexual or transgender (en.m.wikipedia.org/LGBT)." Indian English literature has tried to deal with this delicate theme through autobiographies, biographies and creative content related to the agonies of transgenders.



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Bakhr





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Suman Keswani



Dr. Suman Keswani works as Assistant Professor English, DRB Sindhu Mahavidyalaya Nagpur, India. She is a dentist, teacher and poet. She has to her credit a book of poems *Reflections*.

I DREAMED

I dreamed of a place, this afternoon
Over the clouds and over the moon,
A divine garden with petals strewn,
Here, let's make our love cocoon!

I dreamed of a house on top of a hill
Laced with a farm and a big, rice mill,
Garland in hand and dressed to kill
You wait for me with zeal and thrill!

I dreamed of a huge, flower-bedecked swing,
With a seat of gold and a silver sling,
Tucked in my pocket is a diamond ring,
Surprise for you which I wish to spring!



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Dr. Japna Tiwari
2022-23

**स्वतंत्रता संघर्ष में हिन्दी साहित्य
का अवदान**

सम्पादक
डॉ. मनोज पाण्डेय



ए.आर. पब्लिशिंग कम्पनी
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पं. माखनलाल चतुर्वेदी : राष्ट्रीय चेतना के प्रेरणा पुंज

डॉ. सपना तिवारी

सूली का ही पथ सीखा है, सुविधा सदा बचाता आया।
भैं बलिपथ का अंगारा हूँ, जीवन ज्वाल जलाना आया।।

माखनलाल चतुर्वेदी की उपरोक्त पंक्तियों से उनकी राष्ट्रीय चेतना व मनोभाव स्वतः ही स्पष्ट दिखाई देते हैं। 04 अप्रैल, 1889 मध्य प्रदेश में जन्में पं. माखनलाल चतुर्वेदी हिन्दी साहित्य क्षेत्र में उन शलाका पुरुषों में से एक हैं जिन्होंने स्वतंत्रता से पूर्व व उत्तरार्ध अपनी लेखनी से भारत के विकास व उत्थान में अपनी महत्वपूर्ण भूमिका निभाई है। उनके रोम-रोम में भारत बसता था एवं वे सदैव माँ भारती के उत्कर्ष के स्वप्न को ही मन में संजोए रहते थे। इसलिए उन्हें 'एक भारतीय आत्मा' की उपाधि से विभूषित किया गया।

यों तो राष्ट्रीय भावना से ओत-प्रोत मैथिलीशरण गुप्त, सोहनलाल द्विवेदी, बालकृष्ण शर्मा नवीन, सुभद्रा कुमारी चौहान जैसे रचनाकारों ने राष्ट्रीय चेतना जागृत करने में अपनी अहं भूमिका निभाई है लेकिन स्वाधीनता संग्राम में तन-मन से सहभागिता करने वालों में राष्ट्रीय जागरण के रूप में पं- माखनलाल चतुर्वेदी का कोई सानी नहीं है। "यह वह काल था जब तिलक और गांधी जी के आगमन से देश में कई शक्तियों का संचार हुआ तथा चारों ओर उग्र राष्ट्रीयता की लहर फैल गई। साहित्य के विभिन्न अंगों की वृद्धि का कार्य भी इस युग से ही आरंभ होने लगा था।" चूंकि वह पूरा युग संघर्ष त्याग, तपस्या और राष्ट्र प्रेम का युग था। उस दौरान राष्ट्रीय जागरण समन्वित काव्य सृजन की माँग थी। ऐसे महत्वपूर्ण व कष्टदायी समय में मातृभूमि को परतंत्रता की वेड़ियों से छुटकारा दिलाने हेतु काव्यसृजन की ओर पं. माखनलाल जैसे क्रांतिवीर अपनी लेखनी के माध्यम से राष्ट्रीयता से प्रवृत्त हो जाना स्वाभाविक ही था। अतः स्वाधीनता के धधकते माहौल में पं. माखनलाल जैसे प्रखर कवि को अपने काव्य सृजन से राष्ट्र की आत्मा को झकझोरने में देर न लगी। आपने आंदोलनात्मक कविताओं के साथ-साथ



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Dawn of Women Empowerment and Entrepreneurship

14. स्त्री मानव अधिकारों के संदर्भ में हिंदी कथा साहित्य की भूमिका

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प्रस्तावना

प्राचीन समय में मनुष्य अपने कर्तव्यों को सर्वोपरि मानता था। परंतु वर्तमान समय में व्यक्ति मानव अधिकारों के तहत सुरक्षित जीवन जीने की कामना करता है। मानव अधिकार गौरवपूर्ण जीवन जीने के लिए अत्यंत आवश्यक हैं। ये हमारे जीवन के अमूल्य अंग हैं।

सामाजिक जीवन की वे दशाएँ, जो मानव को समाज एवं कानून के समस्त संविधान के अनुरूप कार्यों को संपादित करने की पूर्ण स्वतंत्रता दे, मानवाधिकार कहलाती हैं। मानवाधिकार इस सार्वभौमिक सत्य की मानव प्रकृति की अनमोल कृति है, जिसमें प्रत्येक व्यक्ति चाहे जिस जाति, धर्म, संप्रदाय का हो, उसे सम्मानजनक जीवन जीने का अधिकार है।

मानव अधिकारों का आधुनिक संदर्भ बहुत विस्तृत है और इसमें अनेक प्रकार के नागरिक और राजनैतिक, आर्थिक, सामाजिक तथा सांस्कृतिक अधिकारों की चर्चा की गई है। 1948 में संयुक्त राष्ट्र संघ ने सौ प्रकार के मानव अधिकारों को अपनाया, जिनमें स्त्रियों, बच्चों, अल्पसंख्यकों, वृद्धों और पीड़ितों आदि के लिए मानवाधिकार शामिल हैं।

नागरिक अधिकारों के अंतर्गत जीवन का अधिकार, स्वतंत्रता, समानता, अपने विचारों एवं भावनाओं की अभिव्यक्ति, धार्मिक स्वतंत्रता आदि अधिकार निहित हैं। ये अधिकार पुरुष तथा स्त्री दोनों के लिए समान हैं। महिलाएँ जो किसी भी देश की आबादी का आधा हिस्सा होती हैं, उन्हें देश की मुख्य धारा से पृथक कर एक स्वस्थ एवं संतुलित समाज का निर्माण नहीं किया जा सकता। लेकिन वास्तविक स्थिति यह है कि आज की स्त्रियों को इन अधिकारों का पूर्ण लाभ नहीं मिल पाता।

साहित्य व मानवाधिकार

मानव अधिकार मनुष्य के अस्तित्व से जुड़े हुए हैं। जो हमारे अस्तित्व से जुड़ा होता है, वह तो साहित्य में होता ही है। मनुष्य न केवल जिंदा रहना चाहता है वरन् गरिमा के साथ जिंदा रहना चाहता है और साहित्य, मनुष्य को यह मानवीय गरिमा प्रदान करता है। चाहे स्त्री हो या पुरुष, साहित्य में वह जब भी अंकित होता है अपनी गरिमायुगी उपस्थिति दर्ज करवाता है। रचनाकार अपने अनुभवों व अनुभूतियों से इसको वाणी प्रदान करता है।

किसी भी रचनाकार की चेतना अपने आसंदकपास के वातावरण, स्थितियों और व्यवस्थाओं से प्रभावित होती है। भारतीय समाज व्यवस्था पुरुष प्रधान होने के कारण समाज के



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Use of Weeds as Bio-Repellent

Kharkate Sudhanshu and Shinkhede Milind

Dada Ramchand Bakhrui Sindhu Mahavidyalaya, Nagpur (M.S.)

Abstract:

Alternative methods of pest control research have been turned to plant essential oil, which considered lower risks than many synthetic products. In the last decade, there has been significant use of synthetic pesticides as conventional pesticides. The Promising benefit of this work is the use of weeds like Hyptis and some members of Lamiaceae as botanical repellent and pesticide to the society. Bio-repellent can be used as a alternative repellent and pesticide. They are eco-friendly and economical. It will reduce environmental pollution. It is expected that the technology developed will contribute for developing employment in rural region particular in agricultural industry through direct employment creation, enhance use of products and cost effective, energy efficient and optimized process will be known.

Keywords: bio-repellant, *Hyptis suaveolens* (L.), Pesticides

Introduction:

No one can deny a vital role of agriculture sector in development of India. Earlier traditional methods of farming were conservative type, now a day modern techniques, methods and up-gradation has been introduced in agricultural and farming sector.

In Vidarbha region of Maharashtra (India), farmers are facing problems in agriculture like poor production of crops, draught, lack of marketing strategies, poor irrigation facilities, other social and family issues. Due to this, financial crunch has occurred for farming. But apart from these, major constrains are,

- Failure in crop rotation
- Loss of fertility of soil due to chemical/synthetic insecticides
- Facing financial burdens
- Lack of awareness regarding alternative cash crops

These are the severe challenges facing by farmers in Vidarbha region. The crop plant productivity is still affected by biotic factors and abiotic factors. Biotic factors include insects, weeds and plant pathogens, alkalinity, salinity, soil activity, temperature, nutrients deficiencies and water.

Due to use of chemical / synthetic fertilizer, fertility of soil has been affected. Invasiveness of weeds is creating severe damage to crops. Unawareness about the alternative cash crops is also a major hurdle in the path of farmers. Use of chemical (Synthetic) based insecticides and pesticides also causes damage to soil fertility, pollution and adversely affect the flora and fauna. This article is aimed at to take close review an environmental impact pesticide use and proposed an alternative to synthetic pesticide. Chemicals that eliminate pests, insects, rodents, fungi called as pesticides. Use of pesticides is a routine culture of agriculture industry to protect crops from damage. To exterminate mosquitoes to check the spread of malaria, viral infections and fever, pesticides are commonly used. They are commonly known, depending on their target like insecticide, fungicide and herbicide. Pesticides have a large impact on environment, because they are spread over large area of farmland. Because of application of pesticides over large area of land and carried away by wind and water runoff, only 5% of herbicides and 2% insecticides reach to their targeted pest. These chemicals affect of plants and animal species, as they travel to other areas. Due to production, storage and transformation; certain qualities of pesticide entered into environment. When we apply to crop, pesticide work into soil and has devastating effects. The most lethal effect is biodiversity loss in soil, which results in lowering of soil quality overall and fertility. It also removes a large percentage of organic matter. Water retaining capacity of soil is improved by organic matter, which can be extremely helpful to farmers during draughts. Deficiency of organic matter also permits pesticides to continue to build in the soil rather than breaking down the complex material. Application of increased quantities of fertilizer for successful crop yields is due to less fertility of soil and less plant growth. Seeping of pesticides into the soil find their way into ground water, this leads to entry of pesticides into nearby rivers and streams. Research has shown that every stream and around 80% of all water well are polluted with pesticides in India. All these activities result in contamination of rain and groundwater sources. Many countries like India have passed bills on drinking



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Chapter
21

SYNTHESIS AND CHARACTERIZATION OF NiO NANOPARTICLES

Bharti S. Anerao¹, Arti M. Chaudhari²

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ABSTRACT

In the present work, Nickel oxide nanoparticles (NiO) were synthesized using Chemical precipitation method. It is simple and cost effective method. Nickel carbonate dihydrate was used as a starting material and starch used as capping agent for this synthesis. The prepared nanoparticles of metal oxide (NiO) were characterized by using Scanning electron microscopy (SEM) and Energy dispersive X-ray (EDAX) spectroscopy measurement. The structural functional groups were analyzed by using SEM. EDAX spectrum that showed the elemental composition of Nickel oxide. This simple and cost effective synthesis method will be useful for different industries for the preparation of Nickel oxide nanoparticles. In future this synthesized nanoparticle will be useful as an electrode material for supercapacitor applications.

INTRODUCTION

Transition metal oxides have gained more interest as electrode materials in supercapacitor fast and reversible redox reactions occurring at the electrode-electrolyte interface. Considerable interest has been grown on the preparation and characterization of NiO nanoparticles for their unique applications such as solar energy conversion, non-linear optics, varistors, pigments, gas sensors, cosmetics catalysis, battery anodes, electrochromic films and magnetic materials, supercapacitors[1-7], and properties[8-9]. Various methods like mechano-chemical processing, metal alkoxide hydrolysis, nonhydrolytic sol-gel reaction process, nonaqueous synthesis and salt-assisted aerosol decomposition, chemical precipitation have been used to synthesize nickel oxide [10-12]. Among these methods chemical precipitation method is most promising method to prepare NiO nanoparticles. Furthermore, the products formed are poorly crystalline and exhibit broad particle size distribution[13].

CHARACTERIZATION

SEM Analysis:



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Educational Reforms and Blended Learning

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Abstract: Indian education system has deep ancestries and have seen many transformations. History denote many records, how education in this diversified, multicultural region has changed from informal to formal education, from Gurukulas, Madarsas to School and University Education. Formal education is still rebellious; ever ready to update and upgrade itself. So the education society always has to keep its learning switch mode on to get refigured according to the needs of the society. Education infact has no single motive towards the society. It has to fulfil the multiple wants and desires and so as its transformations occur according to the needs of the society. Today, no doubt, education system worldwide has flourished and developed formally with numerous education bodies and societies. Various education policies & recommendations have been shouldering the responsibility to sharpen the edges followed by various legal enactments time to time. Like India, many countries has upgraded its education into formal multi-staged education system. Efforts of NCERT, MHRD, UGC, AICTE, NCTE, NAAC, NIRF, NIEPA etc. should always need to be appreciated. The present paper overviews the role and functions of various contributing apex bodies to bring periodical transformations in the education system. It further endeavor to review the pros and cons of existing system and attempts to evaluate its efficacy in emergent pandemic situations. The paper concludes with recommendations to reform and ameliorate in the light of recommendations of NEP, 2020. It also recommends to adopt blending learning and teaching method for impending era.

Keywords: Teaching, HEIs, NEP, Reforms, Transformation, Blended Learning

I. INTRODUCTION

India is a country with varied religions, varied languages and varied cultures. Challenge to educate in this diversified society has been bestowed time to time by many apex formal and informal bodies by adopting suitable state-of-the-art education methodologies. Most of the countries in the world have formally accepted the multi-stage education structure with remarkable peak to attain higher education, an achievable one due to the fact that higher education in one's life is a never ending process. India alone counts around 1043 universities, 11779 stand-alone institutions and 42143 colleges providing higher education courses. Higher education through its various technical, non-technical, vocational, specialized courses attempts to fulfil the needs of the various sectors of the society, contributing in National growth and development. The contributions seems to be significant when one observes the total registrations of around 241,369 students in 20 universities and 496 colleges at the time of independence. Ofcourse credit being shared by various apex bodies with substantial involvement of the University Grants Commission during post-independent period.

II. REGULATORY FRAMEWORKS

Regulatory framework should rather be viewed as a systemized approach to provide professional education though no country can surely mark era for its initiation. When we look backs to the period of Vedas & Puranas, the ancient rich historical era provide many unwitnessed instances of regulatory framework been imposed, whether it has been the case of formal establishments of Gurukulas or the well-established raj-darbaras comprising of bodies of ministers for various wings. Such establishments cannot be possible without such framework. Not only Ancient vedic period but also medieval Buddhist period, Islamic period, all observed regulatory periodic impositions. When it comes to Indian ancient education, universities like Nalanda, Taxila, Valabhi, Vikramshila, Odantapuri, Nadia, Mithila, and Jagaddala surely require special mention.



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An analytical study for imposition of Unified regulatory framework for esg compliance

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Abstract:

A Company business is meant to earn profit and it has always been its prime objective. However, the recent trend enthusiastically sways the company business to be vigilant about its social and environmental objectives. Gradually becoming the need of this hour, thrust for developing a sustainable world demands it's corporate sector to strive towards ESG compliance, something not been looked for earlier companies to achieve. Turn back to two decades of time, ESG can be considered as a neglected concept though has taken some shape worldwide. What the country legislation sought for had to meekly urge for CSR compliance in its early phase prior to the commencement of ESG framework in India. ESG travels around for 15 years in India to become an eminence indicator for future growth towards sustainability. ESG investing has grown considerably and has been a step over to kindle towards fulfilment of social and environmental objectives.

Gradual development of ESG regime looks towards various acts and legislations for its compliance. It is when numerous industrial legislations are getting subsumed in consolidated codes; companies seeking ESG compliance somewhere seek for unified regulations. The present study is analytical in nature. It endeavours to evaluate the need for imposition of unified regulatory framework for ESG compliance, which implies implementation of uniform code or standards. The same may be incorporated by framing an ESG concerned Act or unified codification of various related provisions subsumed under the proposed codes.

Keywords: ESG, compliance, legislation, standards, regime, framework.

Introduction:

Present global world is attentive towards sustainability. It has become a booming concept. Recent 2015's SDG Agenda is actually the earth's proclamation to be a united planet so far as its survival and longevity is concerned. 17 goals with 169 targets to be accomplished till 2030 is a challenging task for 193 nations for which each country is having its own strategy to tackle. Consequently, the corporate sectors are looked upon to play crucial role in achieving SDGs. Concurrent being the ESG evolution in India which has already taken shape in 2009 with the efforts of the Ministry of Corporate Affairs (MCA) by issuing the voluntary guidelines. Again, revival of the Companies Act in 2013 has stressed the companies to practice Corporate Social Responsibility (CSR) by introducing certain mandatory provisions.

Eventually the last Indian decade has observed many significant steps to induce Indian companies towards taking care of environmental and social aspects. At this instant, ESG has been brought forward with an emblem of three vital aspects i.e. Environment, Social and Governance. All together it provides a framework to the companies to be concerned about their social environment by adopting Global Reporting Initiative (GRI), Task Force on Climate-related Financial Disclosures (TCFD), International Integrated Reporting Council (IIRC) and Sustainability Accounting Standards Board (SASB) standards. With its three factors, ECG strives to frame quality reviews by setting metrics for companies to take significant lead towards ensuring environmental protections, creating healthy atmosphere and adopting good governance. It has outlined certain parameters towards achieving of good ESG score, an indicator or assurance of ESG Complaint Company. At such, efforts can never be explained without mentioning imperative role being played by SEBI else ESG reporting could largely be considered as voluntary. SEBI has taken initiative by mandating top 100 listed companies in 2012 to submit Business Responsibility Report (BRR) as disclosure with their annual reports. Later it introduced Integrated Reporting i.e. IR and finally introduced Business Responsibility and Sustainability Report (BRSR) replacing the existing BRR. Complaint company base was raised to 500 in 2015 and 1000 in 2019. BRSR provides goals, targets and subsequent achievements of the companies towards certain



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The Customer Relationship Management (CRM) In The Tourism Industries As A Tool For Global Competitiveness

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Abstract:

Customer satisfaction and retention have become one of the most important issues in the current era of global competition. Mass marketing was considered an important strategic tool in the past, especially in the phase of industrialization, but it has become ineffective in this age of informed and complex customers. Companies have established customer satisfaction as another means of business success. Researchers define the main competitiveness measure in a marketplace as the ability to retain and acquire more customers. Customer relationship management is a mix of practices, techniques, and customer relationship management used by organizations to monitor and evaluate customer experiences and data throughout the customer life cycle. It aims to strengthen customer service relationships and attract customers and promote revenue growth. Customer relationship management refers to the values, processes, and standards that a company adopts while communicating with its customers. This research aims to find some solutions to eliminate the barriers and restrictions to the development of the tourism industry and to attract and please the guests. Thus, this research focuses on the impact of customer relationship management activities on tourism customers and barriers to customer relationship management implementation.

Keywords: Customer Relationship Management, Customer Satisfaction, Tourism Industries, Global Competitiveness

Objective of Research:

- 1) To assess the role of customer relationship management in direct performance across various categories of the tourism sector.
- 2) To study the shortcomings of the existing customer relationship management practices followed by the tourism sector in India.
- 3) To study the customer relationship management practices followed by different categories of the tourism sector in India
- 4) To study the dimensions of customer relationship management practices followed by the tourism sector and their impact on customer satisfaction.

Introduction:

To encourage its valued clientele, the hotel organization has currently established personal relationships. The process of maintaining long-term relationships with customers is known as relationship marketing and, more recently, as customer relationship management in today's marketing literature. These two concepts, relationship marketing, and customer relationship management are synonymous with each other (Parvatiyar and Sheth, 2001). For marketing practitioners, customer relationship management is an evolving marketing area of varying services to service organizations in a highly complex and competitive business environment. However, scholars see it as a modern marketing tool that focuses on managing sustainable consumer relationships by supplying the best value to consumers. From the company's point of view, this entire partnership includes direct interaction with consumers, such as sales and service-related processes, prediction, and analysis of consumer trends and



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The Impact Of Product Quality Management On Customer Satisfaction In MSME Industries In The Context Of Self-Reliant India Campaign

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Abstract:

MSMEs in India continuously feed the domestic and international value chain such as manufacturers, suppliers, distributors, retailers, contractors, and service providers to account for a major portion of our industrial units. The sector is performing very well in terms of the overall rate of GDP (average growth of 8% per annum) and overall industrial output (measured by the Index of Industrial Production-IIP). Support for Indian MSMEs to address areas such as availability of adequate financial resources, indigenous campaigns, entrepreneurial skill development, enabling pool of human resources, application of latest technology and innovations, adequate international market linkages, bilateral trade agreements, etc. The policy framework has become a sector. The sector is competing globally to help address the challenges emerging today and help ensure their sustainability. Impact of Product Quality Management on Customer Satisfaction in MSME Industries in the context of Self-Reliant India Campaign. Inspection and identification of comparative importance of some known quality management practices in industries. Identification of important factors of Product Quality Management for Customer Satisfaction Study of these topics the research topic has been selected for.

Keywords:Product Quality Management, Self-reliant India, Customer Satisfaction, MSME Industries

Data Collection Method Used for Research:

Data for the research paper has been collected from related literature, books and websites

Objective of Research:

- 1) To observe and identify the comparative importance of some known quality management practices across industries.
- 2) To identify the important factors of product quality management for customer satisfaction.
- 3) To study the relationship between product quality management and customer satisfaction.
- 4) To suggest contemporary product quality management practices and practical guidelines for higher levels of customer satisfaction.

Introduction:

Quality refers to excellence in goods and services, particularly the extent to which they conform to requirements and satisfy customers (American Society for Quality, ASQ) Quality assurance (QA) is a broad concept that determines whether suppliers and the final Focus on the entire quality system, including customers, product or service. Quality control (QC) focuses on the process of producing a product or service to eliminate problems that may result from defects (Agas, 2020).

The quality of the products is very important to the company. This is due to the fact; Low-quality products affect the trust, image, and revenue of the customers. It can also affect the survival of the company. Therefore, every company needs to produce better quality products. It is important to keep these things in mind while producing indigenous goods, only then we can be successful in the self-reliant India campaign.

Product quality management is a comprehensive set of tools that enable organizations to control and manage data related to product quality across enterprises. This product data includes product and manufacturing defects, field failures, customer complaints, product improvements, and corrective and preventive action requests (Anil & Satish, 2019). The quality of the products is also very important for the



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The Comparative Study Of Customer Attitudes Towards Branded Food Outlets And Unbranded Food Outlets Post-Pandemic

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Abstract:

Food consumption patterns around the world have changed since the late 1980s. When food production companies encourage their customers, economic growth also increases. This revolution changes the whole food market as well as the food industry to implement new ideas in their business models and showcase new marketing plans by which they attract customers and encourage consumers to eat more processed foods. For food production, food differences in India are highly specific criteria for India's multidimensional society consisting of different regions and states. Generally, Indians choose only home-cooked food. However, over time and due to the growth of the economy and the influx of western markets and products, there has been a significant variation in the design of food use among urban households living in India. It started with eating small nutrients from outside and gradually it accepted many types of cuisines across the world. The liberalization of the Indian economy before the nineties and the subsequent introduction of new players into the market has brought about a necessary change in the lifestyle and food habits of urban Indians. But this research paper is related to a comparative study of the attitudes of customers towards branded food outlets and unbranded food outlets after the pandemic.

Keywords: Food Industry, Branded Food Outlets, Unbranded Food Outlets, Customer Attitudes, Coronavirus

Data Collection Method Used for Research:

Data for the research paper has been collected secondary sources.

Objective of Research:

- 1) To study the difference between customer attitudes towards branded food outlets versus unbranded food outlets after the pandemic.
- 2) To identify factors influencing customer attitudes towards branded food and unbranded food outlets.
- 3) Examine the factors affecting the choice of food outlet.
- 4) To understand the relationship between cost and usage of branded food and non-branded food.

Introduction:

Today the food industry in India caters to the emerging Indian food requirements. It is gaining huge acceptance from the Indian youth and is constantly becoming a part of their lives keeping in mind the Indian trends and changing trends towards nutritional consumption. Fast food anchors have worked hard for Indian flavor when multinational food companies have menu their meals entirely to meet Indian food requirements, i.e., a specific type of vegetarian food and preferred non-vegetarian options.

Customer Attitude The state of mind of the customer (customer attitude) is a combination of three fundamentals. It is this element that is cognitive in progress, troubling in the chain, and conveys information about the client's behavior and imminent intentions. In other words, the attitude of the customer consists of the way of life, thought, and intention for the overall experience at the food outlet. Today food outlets have become popular among customers for several reasons. One is through economies of scale in receiving and distributing nutrition, the organization is poised to provide



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The Analytical Study Of The Emotional And Occupational Stress Among Banking Sector In The Context Of Skill Development

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Abstract:

The banking sector is growing at a high rate and currently has a large number of jobs. However, the development of the banking sector can remove psychological issues like stress, tension, anxiety, etc. This empirical study has shown that fear of overloading and severe workloads, strenuous time to perform duties, more than 12 hours of exercise, long journeys, or termination of employment contracts are prevalent. While employees in companies face many business issues, stress is still very prevalent among bank employees as various factors require priority answers. For this reason, EI capability is very effective in preventing pressure among employees. Thus, it tries to link EI skill and stress, especially in the banking sector of India. Organizations currently consider that their employees have sufficient technical and mental skills to perform their jobs. They emphasize personal characteristics such as adaptability, commitment, conviction, empathy, readiness for diversity, and openness to transition. In the light of the above information, the proposed study is an attempt to study emotional and occupational stress among banking sector in the context of skill development.

Keywords: Banking Sector, Skill Development, Emotional Intelligence, Bank Employees, Occupational Stress

Data Collection Method Used for Research:

Data for the research paper has been collected from related literature, books and websites

Objective of Research:

- 1) To study the factors associated with occupational stress among bank employees
- 2) To evaluate emotional intelligence among bank employees.
- 3) To study the parameters of emotional intelligence (self-awareness, self-regulation, motivation, empathy and social skills) of bank employees.
- 4) To study the factors affecting the emotional intelligence of bank employees
- 5) To explore the relationship between occupational stress and emotional intelligence among bank employees

Introduction:

The Indian banking system is the support system in terms of improving the economy of the Indian nation and people. Banking has helped in reforming the essential sectors of the economy and has given a new aura of progress. This field has turned the goals and dreams of millions of people into reality. The banking sector in India has grown into one of the strong drivers of India's economic growth. The Indian banking industry has made extraordinary progress over the years even at a time when the rest of the world was grappling with financial catastrophe. The growth of the economy and the liberalization of the financial sector have transformed the banking segment in the last two decades.

Section 5(b) of the Banking Regulation Act, 1949 defines banking as the acceptance of deposits of money from the public for lending or investment. Such deposits may be repayable on demand or



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Role Of Farm Mechanisation In Sustainable Agricultural Development

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Abstract

Mechanisation is crucial in the context of increasing commercialization of agriculture. The use of agricultural machinery is continuously increasing in Indian agriculture as it contributes to increased productivity through timely operations and more precise use of inputs. Compared to developed countries where agricultural Mechanisation is over 90%, the level of mechanisation in India is still between 40% and 45%. The introduction of Mechanisation in Indian agriculture is urgent and a need of the hour for continuous and sustainable development. The adoption of mechanised solutions in Indian agriculture is driven by a number of macroeconomic and inherent factors, including growing population, urbanisation, increase in agricultural exports such as tractors, improvement in agricultural credit, labour churn and labour shortage, in addition to the agricultural, social and economic growth factors of mechanisation. In the current scenario, agricultural mechanisation startups, especially those based on the Farming as a Service (FAAS) model, are rapidly integrating technologies, with a focus on precision agriculture in India. To increase the effectiveness of their machines and gain a competitive edge, most agricultural machinery manufacturers are currently focusing on integrating various technologies such as robotics, global positioning system (GPS) and navigation systems. This is paving the way for farm mechanisation in Indian agriculture.

Keywords: agricultural productivity, farm mechanisation, sustainable development goals

Introduction

Indian agriculture has made its presence felt at the global level. India is among the leading countries in the world in the production of a number of crops such as rice, wheat, sugarcane, fruits and vegetables. Despite this potential, however, two major bottlenecks have emerged that may become insurmountable problems in the foreseeable future: stagnant productivity per hectare and shortages of agricultural labour. There is ample evidence that productivity improves dramatically with the use of more agricultural energy. It is estimated that the use of appropriate equipment can increase productivity by up to 30% and reduce costs by about 20%. Indian agriculture has evolved far beyond staple food production since the early 2000s. Indian farmers are adapting to agricultural mechanisation faster than ever before. Sales of tractors in India cannot be considered the only measure of agricultural mechanisation, but it does reflect to a greater extent the degree of mechanisation. The Indian tractor industry has become the largest in the world, accounting for one-third of total world production. While the opportunities in the Indian agricultural machinery sector are immense, the sector faces challenges on several fronts. Unlike other agricultural sectors, the agricultural machinery sector has a much more complex structural composition. It has been observed that the performance of the sector depends on the interplay of several factors, including financial aspects such as capital and interest rates, lack of data, small and scattered land holdings, etc. Innovations in the agricultural machinery sector will drive the next phase of agricultural growth in the country. The Indian government has been promoting mechanisation through various policy interventions. The technologies that have evolved in the farm machinery sector in recent years have tremendous potential to realise the vision of the Make in India initiative, which promotes innovation and investment. The knowledge paper examines the current state of agricultural mechanisation in India. The paper also highlights the issues in the farm machinery sector and reflects the suggestions and opinions of various stakeholders collected through structured interviews. The report then proposes



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CELEBRATING GOLDEN JUBILEE YEAR

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RESEARCH METHODOLOGY

Objectives of the study

1. To overview the Digital India campaign.
2. To analyze Opportunities and Challenges in the Digital Economy in India.
3. To provide vital suggestions for overcoming challenges.

Collection of data

The present study is qualitative in nature. The secondary data in the base of present study and has been collected from various articles published in magazines, daily newspaper, websites, internet, published journals, reports, etc.

DIGITAL INDIA

The Government of India launched the "Digital India" programme to bring fast internet to rural regions. On July 1, 2015, Prime Minister Narendra Modi introduced the Digital India Mission as a beneficiary of other government initiatives including Make in India, Bharatmala, Sagarmala, Startup India, BharatNet, and Stand-up India. Focused regions of the Digital India Mission Scheme:

- Offering each individual access to digital infrastructure facilities as a source of usefulness
 - On-demand services and governance.
 - Ensuring the digital progress of all Indian residents.
- With the goal of fostering inclusive growth in the fields of goods, manufacturing, electronic services, and employment prospects, Digital India was founded.

The Digital India Mission's major goal is "Power to Empower". The development of digital infrastructure, digital literacy, and digital service delivery are the three main pillars of the Digital India initiatives. More about the objectives below:

- Providing high-speed internet service in every gramina panchayat
- Government access to the Common Service Centre throughout the entire area
- The digital India effort combines several concepts and viewpoints into a unified, all-encompassing vision so that each one may be understood as a component of a bigger objective.

The Digital India Project also emphasizes integrating several current programmes that may be put into action in unison.

The major 9 pillars of Digital India that are mentioned below:

1. Broadband highways
2. Universal access to mobile connectivity
3. Public internet access program
4. e-governance
5. e-Kranti
6. Information for all
7. Electronic manufacturing
8. IT for jobs
9. Early harvest programmes

OPPORTUNITIES IN INDIAN DIGITAL ECONOMY

Technology has always been a revolutionary force in human growth, altering the makeup of the labour force, bringing about changes in the face, shape, pattern, and method of work, as well as larger economic and societal transformations. India's digital vision is founded on citizen-centric services, where openness and accountability are assured, and it envisions a type of digital transformation that enables everyone - whether in rural or metropolitan regions, and irrespective of their economic or social standing - to take enough benefits.

India's digital economy will be worth \$1 trillion by 2025 and that the country's infrastructure sector's potential revenue is \$2 trillion. The Indian government is placing a lot of emphasis on building a solid foundation for digital infrastructure and extending digital access to everyone through the Digital India Program. As new digital applications permeate sector after sector, this is generating enormous economic value and empowering citizens. By 2025, the digital economy of India might provide enough productivity and production to sustain 55 to 60 million jobs, making it the second-fastest digitizing economy among the world's top 17 economies.

The introduction of technologies like artificial intelligence, the Internet of things (IoT), cloud computing, blockchain, and robots presents the government with new opportunities to support India's continued technological and digital development. A digital economy is predicted to generate 60-65

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Digital economy in india: Opportunities and challenges an analysis

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ABSTRACT

In the 21st century, digital economies converted a major force behind global economic development and effectively met widespread challenges. With the potential of adding much more rapidly, digitalization has become a vital component in the development of the contemporary economy, giving us a new word "digital economy". Our Digital India programme has established the massive potential of digitalization to address many social issues that subsidize to a more equal society. It is hard to overlook why the concept of Digital India has grown so much focus. Every day, the internet powers the whole world, and as the internet becomes a hub for commercial, social, and artistic activities and interactions, digitalization seems to be unavoidable. One of the key forces behind the digital economy is digital payments, along with Make in India, Start-Up India, and Skill India. New market expansion potentials are expected as a result of the digital transformation, also known as The Internet Economy or The Internet of Everything. Deprived of a doubt, it is a significant challenge because there are many challenges that hinder the effective completion of this determined responsibility. While there may be significant challenges and difficulties when a traditional economy transitions to a digital one, there are also many possibilities and novel aspects that not only support the set-backed economies improve but also recover the structure of the progressed economies from good to best. India's role and impact in the global economy could be significantly increased by the digital economy, and the country could emerge as a leading hub for technological innovation. The present study overviews the Digital India campaign. The study also attempts to analyze Opportunities and Challenges in the Digital Economy in India.

Keywords: Digital Economy, Digital India, Opportunities and Challenges

INTRODUCTION

A nation's economy is made up of all the activities that contribute to the advancement of both the country and its people generally, including production, consumption, import-export of products and services. An economy's growth is dependent on a variety of factors, including the government of the nation, large multinational corporations, corporations, and individuals. No economy is stagnant; it constantly changes in response to shifts in society, way of life, policies, and laws. In the 21st century, digital economies converted a major force behind global economic development and effectively met widespread challenges. With the potential of adding much more rapidly, digitalization has become a vital component in the development of the contemporary economy, giving us a new word "digital economy".

The term "digital economy" refers to the entire spectrum of commercial, non-commercial, and non-governmental activities that are facilitated by the Internet and related information and communication technology. It is referred to be the third industrial revolution by some experts, while the digital economy is seen as a key development facilitator by others. One of the key forces behind the digital economy is digital payments, along with Make in India, Start-Up India, and Skill India. Our Digital India programme has established the massive potential of digitalization to address many social issues that subsidize to a more equal society. It is hard to overlook why the concept of Digital India has grown so much focus. With a goal to provide the average man in India with a vision in three key areas, we are launching the initiative "Digital India". Concluding that digital systems are prevalent in both the present and the future will be helpful.

Deprived of a doubt, it is a significant challenge because there are many challenges that hinder the effective completion of this determined responsibility. While there may be significant challenges and difficulties when a traditional economy transitions to a digital one, there are also many possibilities and novel aspects that not only support the set-backed economies improve but also recover the structure of the progressed economies from good to best. Every day, the internet powers the whole world, and as the internet becomes a hub for commercial, social, and artistic activities and interactions, digitalization seems to be unavoidable. New market expansion potentials are expected as a result of the digital transformation, also known as The Internet Economy or The Internet of Everything.



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- The Digital India Project also emphasizes integrating several current programmes that may be put into action in earnest:
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ABSTRACT

In the 21st century, digital economies converted a major force behind global economic development and effectively met widespread challenges. With the potential of adding much more rapidly, digitalization has become a vital component in the development of the contemporary economy, giving upsurge to the brand-new word "digital economy". Our Digital India programme has established the massive potential of digitalization to address many social issues that subsidize to a more equal society. It is hard to overlook why the concept of Digital India has grown so much focus. Every day, the internet powers the whole world, and as the internet becomes a hub for commercial, social, and artistic activities and interactions, digitalization seems to be unavoidable. One of the key forces behind the digital economy is digital payments, along with Make in India, Start-Up India, and Skill India. New market expansion potentials are expected as a result of the digital transformation, also known as The Internet Economy or The Internet of Everything. Deprived of a doubt, it is a significant challenge because there are many challenges that hinder the effective completion of this determinate responsibility. While there may be significant challenges and difficulties when a traditional economy transitions to a digital one, there are also many possibilities and novel aspects that not only support the set-backed economies improve but also recover the structure of the progressed economies from good to best. India's role and impact in the global economy could be significantly increased by the digital economy, and the country could emerge as a leading hub for technological innovation. The present study overviews the Digital India campaign. The study also attempts to analyze Opportunities and Challenges in the Digital Economy in India.

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INTRODUCTION

A nation's economy is made up of all the activities that contribute to the advancement of both the country and its people generally, including production, consumption, import-export of products and services. An economy's growth is dependent on a variety of factors, including the government of the nation, large multinational corporations, corporations, and individuals. No economy is stagnant; it constantly changes in response to shifts in society, way of life, policies, and laws. In the 21st century, digital economies converted a major force behind global economic development and effectively met widespread challenges. With the potential of adding much more rapidly, digitalization has become a vital component in the development of the contemporary economy, giving upsurge to the brand-new word "digital economy".

The term "digital economy" refers to the entire spectrum of commercial, non-commercial, and non-governmental activities that are facilitated by the Internet and related information and communication technology. It is referred to be the third industrial revolution by some experts, while the digital economy is seen as a key development facilitator by others. One of the key forces behind the digital economy is digital payments, along with Make in India, Start-Up India, and Skill India. Our Digital India programme has established the massive potential of digitalization to address many social issues that subsidize to a more equal society. It is hard to overlook why the concept of Digital India has grown so much focus. With a goal to provide the average man in India with a vision in three key areas, we are launching the initiative "Digital India". Concluding that digital systems are prevalent in both the present and the future will be helpful.

Deprived of a doubt, it is a significant challenge because there are many challenges that hinder the effective completion of this determinate responsibility. While there may be significant challenges and difficulties when a traditional economy transitions to a digital one, there are also many possibilities and novel aspects that not only support the set-backed economies improve but also recover the structure of the progressed economies from good to best. Every day, the internet powers the whole world, and as the internet becomes a hub for commercial, social, and artistic activities and interactions, digitalization seems to be unavoidable. New market expansion potentials are expected as a result of the digital transformation, also known as The Internet Economy or The Internet of Everything.



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Digital Economy In India: Opportunities And Challenges

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Abstract:

As the global economy is going digital, the scenario of the job market in the country and the world is also changing. There will be many jobs in the future whose names we haven't even heard about. New employment opportunities are increasing rapidly in India due to digitization. In this, due to automation, robotics, and artificial intelligence across the world, where jobs are decreasing in many areas, jobs are increasing in the digital economy. In five to ten years, when there will be a crisis of skilled labor force in the world, India will have a surplus number of the skilled labor force. In such a situation, India will be able to take advantage by sending a large number of the skilled labor force to many developed and many developing countries of the world. The Digital India program aims to transform the country into a digitally empowered society and knowledge economy. The objective of this research paper is to study the opportunities and challenges of the digital economy in India.

Keywords: Digital Economy, Digital India Programme, Electronics and Information Technology, Artificial Intelligence, Digitization, Digital Talent, Digital Skills

Data Collection Method Used for Research:

The research paper has depended on secondary data.

Objective of Research:

- To study the opportunities of the digital economy in India.
- To study the challenges of the digital economy in India.
- To study the impact of digitally empowered society on the Indian Economy.

Introduction:

The Digital India program of the Government of India has promoted financial inclusion as well as the use of digital infrastructure. The plan to provide countrywide internet to digital infrastructure including high-speed Wi-Fi has given a boost to the digital economy in India. One of the notable reforms under the Digital India program is the Government e-Marketplace, a portal for government procurement, where MSMEs are facilitated to participate in procurement activities. The second phase of the digital economy is the growth of electronic and mobile commerce in India. The technologically savvy young generation finds online shopping to be the easiest way to purchase items. This has led to the extension of e-commerce and m-commerce in India. The amount of data increases at each level in the digital economy.

Our economy is going through a phase of understanding and analyzing such data. Keeping this in view, the Government of India has launched its own open data portal where data is available for analysis. Given the ever-increasing volume and strategic importance of data for the digital economy, the government is helping to provide training and research in the area of data analytics. In today's digital age, data privacy and equal access to the Internet are like clean air or clean drinking water. It has become a central pillar of the socio-economic and political dynamism of society. It would be better in the interest of the public that this pillar should be protected through laws as a collective right and the big data giants who have Big Data should be made accountable.

The Covid-19 pandemic and the crisis it has created have acted as a catalyst in the use of technology across the world. Many such areas which were till now untouched by technology and for which it was believed that it is not possible to complete work in these areas without the presence of people or human intervention have now reached online with the help of technology. For example, in times when physical courts were not possible, legal and court proceedings were moved online and there were successful attempts by judges to adapt themselves to online mediums for court hearings. Interestingly, many such areas will continue to adopt a hybrid form, that is, characteristics of online and physical life, in the post-pandemic days.

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Spiraling Digital Wheels of Indian Economy

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Abstract:

It is when the countries across the world are striving to attain economic stability, Indian economy is strengthening itself paving by the powers of digitization. Recent Digital India Program launched by the Government of India with motto of 'Power to empower' has been an initiation towards an exquisite transformation of our economy. In its fourth decade at present, the digital economy has made indescribable transformations in modes of business and economy.

Digital economy was coined in 1995 by Don Tapscott. The concept presumed to ally with Networked Intelligence. In its preliminary phase, it inclines to adopt Information Technology in varied collaborative platforms, not quite visualize to shape it for digitization, the picture being perceived nowadays. Widening the spectrum of digital novelties in each timeframe, it impulses to make effective use of digital money, digital banking and in various e-platforms. However, the term itself made it very clear to the economics globally to expect imperative transformations by way of e-business and e-commerce conglomerating it with ICT applications.

The present paper is based on appraisal study of the performance of spiraling digital wheels of Indian economy. It analyzes the progress made by raising expectations paced with technological development in order to strengthen the digital economy in Indian context.

Keywords: Digital economy, DIP, ICT, technology.

Introduction:

Recent analysis has strongly put forward India's performance on strengthening digital economy with enhanced output multiplier. RBI confirms the accelerated growth in digital economy over the economic growth with raise in GVA. Core digital economy comprises all technological equipments, hardware and software to transform the economy. Though digital transformation dates back to 1970s, the term digital economy was coined in 1995 by Don Tapscott; Tuvulu has been the first to claim digitization. However it was claimed that a Japanese Professor was the first one to mention it in 1990s. It is often connoted with internet economy or web economy, but it claims to move far beyond that. The economy accents digital technologies where business and social activities are carried out through use of ICT. The concept gradually started popularizing facilitated by its three factors, digital consumers, digital benefits and digital payment modes. Throughout its voyage, it assures to have enough potential for buyers-sellers in terms of connectivity, services, dealings etc. As the terminology progressed, people gradually come to know about the internet, mobile devices, social media, e-commerce and cloud computing as its components. What really act boost the digital economy is the rise in use of technology under influence of globalization. As the cost of technologies decreases, more people tend to adopt digitization. It initiated to grow connecting the worldwide network for conducting commercial and economic activities through internet and online technologies. Digitisation has always been a thrust area for this country perhaps since the end of last century, however the formal announcement for its systematic adaption started with Digital India Campaign, and the progress of Digital Economy primafacie require making assessment of the campaign and initiatives taken therein.

Assessment of Digital India Campaign:

Though roots of digital economy can be seen in Indian sphere from end of last century, formal initiation can said to be started in 2015 with Digital India Campaign. Few associate its credit with Shri Satyanarayan Pitroda, an Indian Inventor & telecommunication engineer who is regarded as father of India's Computer and IT Revolution. However the revolution made by the Hon'ble Prime Minister through the Digital India Campaign has been a significant step. Within less than a decade, the progress has been significant towards series of the Government schemes like Make In India, Startup India, Standup India, Bharatmala, Sagarmala, Bharat Net, digi locker etc. Ongoing awareness campaign includes e-pragati, e-panta, bhudhaar etc. The campaign aims for digital empowerment and lead to digital economy with many benefits for the citizens with the various initiatives by MeitY. Digital India Mission came with a motto of 'Power to Empower'. The key essence is to provide internet services to rural areas

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The Study Of The Efforts Of The Indian Government For Environmental Protection And Sustainable Development In India

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Abstract

The organized principle towards which sustainable development points, emphasizes the strengthening of natural resources and ecosystems to provide their services to society and the economy. It encourages the strengthening of a system where human needs are met without affecting the integrity and sustainability of natural resources. In this way, sustainable development refers to such development, under which the needs of the future generations are not compromised to meet the needs of the present generation. In addition, environmental protection voluntarily enhances the sustainability of development to some extent. Therefore, it is clear that environmental protection and sustainable development are not only complementary but separate concepts both give a feeling of incompleteness. The layout of the plan has the most important role in urban planning. If environmental aspects are seriously considered while planning, then the damage caused during development can be reduced. It is often seen that trees or other ecological components coming in between are sidelined during development work. This situation is seen more during the development work being done in urban areas. The objective of this research paper is to study the efforts of the Indian government for environmental protection and sustainable development in India.

Keywords: Sustainability, Ecosystem, Environmental Protection, Sustainable Development, Society and Economy, Budget

Research Method Used for Research:

The research paper has depended on secondary data.

Objective of Research:

- To study the efforts of the Indian government for environmental protection.
- To study the efforts of the Indian government for sustainable development in India.

Introduction:

The environment plays a very important role in the economic progress of a country. A major part of a nation's development is linked to production in various sectors. Natural resources like water, soil, and natural resources like soil are needed in different areas. However, the production also results in the absorption of pollution by the environment. Apart from this, due to the excessive use of resources for production, the problem of lack of resources also arises in the environment. As we see in the development of the country, a huge amount of land is acquired due to which trees are cut down. In particular, in the name of development, non-renewable sources, such as fossil fuels, water, and minerals, are being used very fast, due to which they are not being replaced again by the earth. Global depletion of resources have affected residents around the world, preventing them from enjoying the benefits of this progress. However, people who understand economic matters believe that the cutting of trees seems necessary many times for city expansion, construction of flyovers, and the establishment of industrial areas. They argue that it is not correct to lump together environmental and economic challenges. However, he also believes that the possible environmental aspects of developmental projects should be considered sensitively before they are approved.

Sustainable development is a process of change, in which the exploitation of resources, the investment, the orientation of technological development, and institutional change are all aimed at enhanced both present and future capacity to meet human needs and aspirations. It includes all quantitative and qualitative changes that provide a positive contribution to the ecological sustainability. All quantitative and qualitative environmental strategies act to improve the quality of ecosystems and ultimately have a positive effect on welfare. Both economic and environmental systems require a certain minimum starting point to survive. The idea of sustainable development reaches far beyond environmental protection, as it implies a process of including the exploitation of resources, and the direction of investment, The orientation of