



### Plan of Implementation of SDG

#### Sensitisation and Awareness

##### 1. Deployment of UN sustainable goals on prominent places at Institute





### SDG NO. 5 : Gender Equality :

Gender equality refers to the equal rights, opportunities, and treatment of individuals regardless of their gender. It involves ensuring that both men and women have the same rights and opportunities in various aspects of life, including education, employment, politics, and social interactions.



**Photo 1 : Poster Presented by Students for Woman Empowerment**

**Photo 2 : Poster Presentation by Students for Woman Empowerment**





ZEAL EDUCATION SOCIETY'S  
**ZEAL INSTITUTE OF MANAGEMENT AND COMPUTER  
 APPLICATION (ZIMCA)**



PUN CODE: IMMP015570

DTE CODE: MB6195

AISHE CODE: C-50909

**Photo 1 : Felicitation to Successful**

**Woman Mrs. Minakshi Dadhe**



*Impresso: Felicitation of Mrs. Minakshi Dadhe with SWIM Award*



**Photo 2 : Felicitation to Successful Woman  
 Mrs. Sunanda Karmarkar**





**Photo 3 : Celebrating International  
Woman's Day in College**



**Photo 4: Woman Empowerment  
Presentation**

**Photo : 5 Woman Empowerment  
Presentation**



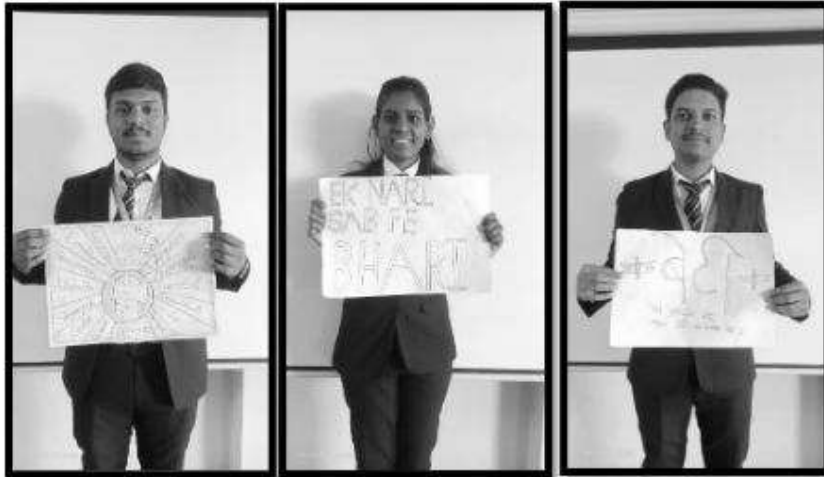
**Photo 6: Girls Participated in Rangoli Competition**





**SDG 10 : Reduce Inequality :**

SDG 10 refers to "Reduce Inequality within and among Countries." The goal is aimed at addressing various dimensions of inequality, including income inequality, social inequality, and inequality in access to opportunities and resources.



**SDG 3 : Good Health and Well Being**

SDG 3 stands for the third goal of the United Nations Sustainable Development Goals (SDGs), which is "Good Health and Well-Being." The objective of SDG 3 is to ensure healthy lives and promote well-being for all at all ages. This goal encompasses a wide range of health-related targets and indicators to address various aspects of global health.



**Photo 1 : Presentation of Benefits of Yoga**



**Photo 2 : Importance of Yoga in Human Life**



ZEAL EDUCATION SOCIETY'S  
**ZEAL INSTITUTE OF MANAGEMENT AND COMPUTER  
 APPLICATION (ZIMCA)**  
 NARHE | PUNE | INDIA



PUN CODE: IMMP015570 DTE CODE: MB6195 AISHE CODE: C-50909

**Photo 3: Celebration of World Yoga day In our Institute (Notice)**



**ZEAL  
 EDUCATION  
 SOCIETY**  
 www.zealeducation.com



**ZEAL EDUCATION SOCIETY**

📍 Sr. No - 39, Narhe Dhayari Road, Narhe, Pune - 411 041( MS) India.  
 ☎ 020 - 2434 8071 **Tele Fax** : (020) 2434 5365  
 ✉ zeal@zealeducation.com 🌐 www.zealeducation.com  
 FOUNDER DIRECTOR : S. M. KATKAR B.A. (Hons.) L.L.B

Ref: ZES/MC/ATW/2023-24/254

Date: 20/06/2024

**Notice**

We are delighted to announce all Teaching and Non-Teaching staff of Zeal Institute of Narhe Campus, Pune that we shall be celebrating International Yoga Day at Zeal Education Society Name Campus, Pune on date 21 June 2024. This event aim is to promote physical and mental well-being among our staff members, fostering a healthier and happier work environment

Details of the Event are as follows:

**Date: June 21, 2024**

**Timing: 08:00 am to 09:00 am**

**Venue: 'D' Building, CSMA Hall**

We kindly request you all to actively participate in this event and experience the numerous benefits that yoga offers. The session will be conducted by a professional yoga instructor who will guide us through various yoga asana, suitable for all fitness levels.

Yoga mats and Comfortable attire are recommended for the event. We encourage you to arrive a few minutes early to settle in and prepare for the session.

Yoga has proven to be effective in reducing stress, improving flexibility, and enhancing overall physical and mental well-being. Let's take this opportunity to rejuvenate ourselves and embrace the positive impact of yoga on our lives.

We look forward to your enthusiastic participation in this event

Thank you for your cooperation.

Sincerely,



**Prof. Uddhav S. Shid**  
 Director (Academics, Admission & Administration)  
 Zeal Education Society, Narhe, Campus, Pune

Copy for further necessary action.

All Principal /Director/Head ZGMI, Zeal Education Society, Narhe, Campus, Pune-41





### **SDG 3 : Good Health and well being (Awareness about Woman Safety)**

#### **Some Safety things Woman should Keep in their Purse**

##### **1. Safelet**

Safelet is wearable women safety device with two buttons on the side that can be used to send a message or contact the guardian member.



##### **2. Pepper Spray Pistol**

Pepper spray pistol is among the legally approved women self-defence appliances. It is way different than other pepper sprays as it doesn't require to be sprayed on eyes. As this spray act as irritant affecting the eyes and skin of the person.





### 3. Safety Torch With Shock Effect

Rechargeable safety torch with shock effect can be the saviour for women. The LED Flashlight with hidden electricity can shake a person very badly. Such personal protection equipment should be considered as the must carry essential of women's bag.



### 4. Safety Rod

The telescopic batons can be played very well for both offence and defence techniques in self-defense. Safety rods can deliver a massive pain with a shock to the attacker. The simple motto of this device is to save you from all the risky people.



### 5. Safer Smart Pendant

This pendant is not the normal pendant. As it has a small circular device known as SAFER. Whenever you feel unsafe, just double-click the safer device attached to the pendant. Then automatically an alert will be sent to your family or friends. Because of the GPS function, your location can be sent in the alert.



### 6. Personal Alarm Wristlet With Whistle

Personal Alarm Wristlet with a hidden whistle is specially designed for women safety. It is placed in outer pockets of a purse or backpack and can be hand-carried. The alarm is activated when the pin is pulled and detects the attacker. It also has an LED Light which will never leave you in the dark.



### 7. Sound Grenade E-Alarm Personal Safety

Sound Grenade is a non-lethal product that loud 120 Db Siren that weighs only 20 Grams. It is created specially to prevent you from thefts, rapes, mugging or any other risky situation by sending an alarm to anyone in the range of sound within 100 meters.



### 8. Paper Spray

It is by far the most reliable self-defence tool. Always carry pepper spray with you wherever you go. Make sure you spray it correctly and in the right direction. One pepper spray should cost anywhere between Rs 150-250.



**SDG 3 : Health and Well Being (Awareness about Social Apps for Safety)**







ZEAL EDUCATION SOCIETY'S  
**ZEAL INSTITUTE OF MANAGEMENT AND COMPUTER APPLICATION (ZIMCA)**



PUN CODE: IMMP015570

DTE CODE: MB6195

AISHE CODE: C-50909

With International Women's Day approaching on March 8, it's that time of year when we honour women who have made significant contributions to society. It's also a good moment to think about the significant obstacles that stand in the way of women's empowerment and liberation. Among these difficulties, women's safety and security remain the most significant impediment to women's independence. Here, have a look at the best women safety apps in India.

**1. 112 India**



**4. Smart 24x7**



**7. bSafe**



**2. My Safetipin**



**5. Shake2 Safety**



**8. I'm Safe**



**3. Sheroes**

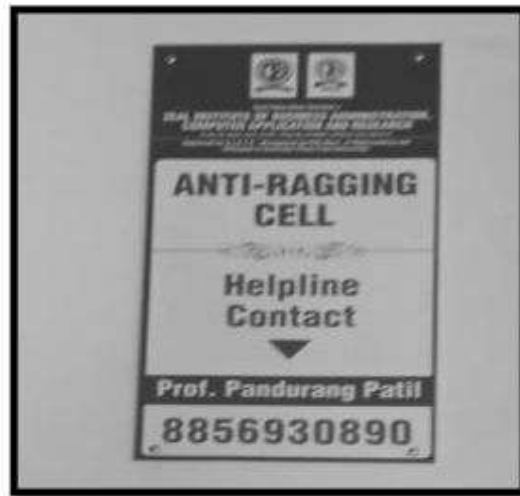


**6. Himmat**



**Photo 1 & 2: Notice for List of App's should be in every Girls Mobile**

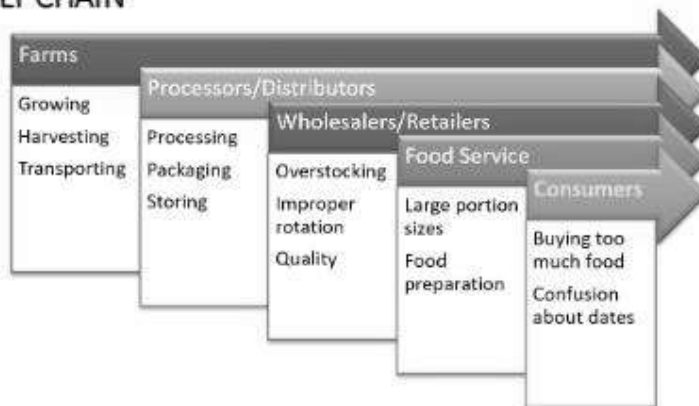




**Anti-ragging and Tobacco Free campus**

**SDG 2 : Zero Hunger**

**FOOD SUPPLY CHAIN**





## **Food Waste**

### **In INDIA:**

Nearly 40 per cent of the food produced in India is wasted every year due to fragmented food systems and inefficient supply chains a figure estimated by the Food and Agricultural Organization (FAO). This is the loss that occurs even before the food reaches the consumer



### **In World:**

Roughly one third of the food produced in the world for human consumption every year approximately 1.3 billion tonnes gets lost or wasted. Every year, consumers in rich countries waste almost as much food (222 million tonnes) as the entire net food production of sub-Saharan Africa (230 million tonnes).

### **Reasons for food waste**

There are many reasons why food is wasted, some of the most common items that are wasted:

#### **Bread and bread products:**

consumers do not understand 'best before' dates and bread is thrown away while still edible;  
the bread has been stored incorrectly and has dried out and gone hard;  
the bread has been stored too long (beyond 'best before' date) and has gone mouldy.



#### **Fruit and vegetables:**

consumers do not store the produce correctly; large pack size or multi-buys encourage consumers to buy more than they need;  
consumers are not aware of the benefits of some packaging extending the shelf life of the product.

#### **Starchy foods:**

consumers cook too much, e.g. pasta/rice – portion size too big; leftovers thrown away.





ZEAL EDUCATION SOCIETY'S  
**ZEAL INSTITUTE OF MANAGEMENT AND COMPUTER  
APPLICATION (ZIMCA)**



PUN CODE: IMMP015570

DTE CODE: MB6195

AISHE CODE: C-50909

**Meat, chicken, fish:**

consumers buy too much in advance; food 'goes off' before cooking due to incorrect storage.

**Fizzy drinks:**

the 'fizz' is lost when bottles are opened a few times; larger bottles can be cheaper than small.

**Milk:**

milk can go 'off' if stored incorrectly;  
too much milk is poured with cereals or in drinks



**Ways to help prevent food waste**

- Plan meals based on foods you already have.
  - ✓ Look in the refrigerator, freezer, and pantry first for foods that need to be used up.
  - ✓ Find recipes that use those ingredients.
  - ✓ Write a list of the food items you still need.
- Buy only the amount of food that can be eaten or frozen within a few days.
- Place foods that spoil quickly within sight.
- Store produce properly.



**“उतना ही लो थाली में  
बेकार न जाए नाली में”**

**“Take As Much As The Plate  
Does Not Go To Waste In The Drain”**





**SDG 2 : Zero Hunger**

It is one of the 17 Sustainable Development Goals established by the United Nations in 2015. The official wording is: "End hunger, achieve food security and improved nutrition and promote sustainable agriculture". SDG 2 highlights the "complex inter-linkages between food security, nutrition, rural transformation and sustainable agriculture". According to the United Nations, there are around 690 million people who are hungry, which accounts for slightly less than 10 percent of the world population. One in every nine people goes to bed hungry each night, including 20 million people currently at risk of famine in South Sudan, Somalia, Yemen and Nigeria.



**Awareness of Food Waste in different areas of Canteen**



**Food and Blanket donation in Orphanage**





## SDG 12 : Responsible Consumption and Production

When we think of pollution, we think of big oil companies and smog from coal mines—but the truth is, fast fashion is one of the central polluting industries in the world. Not only is excessive clothing production harmful to our planet, but garment production harms farmers and producers due to chemicals and waste.

Thankfully, there are many eco-friendly clothing brands utilizing sustainable production methods. These brands use low-impact dyes, upcycled natural materials, and organic cotton to create the very best sustainable and organic apparel.

For even more eco-friendly fashion some sustainable shoes, ethical handbags, and organic cotton can also be produced.



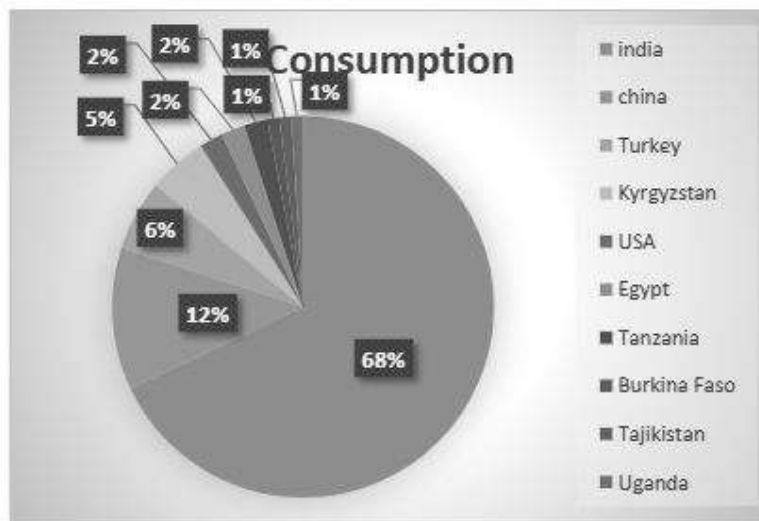
**Bamboo fabric** is created from the bamboo pulp. It does not need chlorine to bleach it and it can be dyed easily with minimal water requirements.



**Organic cotton** is much more environmentally friendly than the traditional variety as it uses no pesticides, herbicides, or insecticides during the growing cycle. There are many growers of this crop, and the number is steadily increasing i.e. Banana Fabric

### Organic Cotton Production and Consumption

| Organic Cotton Production |                |
|---------------------------|----------------|
| Country                   | Consumption in |
| india                     | 68             |
| china                     | 12             |
| Turkey                    | 6              |
| Kyrgyzstan                | 5              |
| USA                       | 2              |
| Egypt                     | 2              |
| Tanzania                  | 2              |
| Burkina Faso              | 1              |
| Tajikistan                | 1              |
| Uganda                    | 1              |





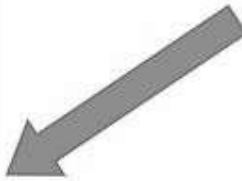
ZEAL EDUCATION SOCIETY'S  
**ZEAL INSTITUTE OF MANAGEMENT AND COMPUTER  
APPLICATION (ZIMCA)**



PUN CODE: IMMP015570 DTE CODE: MB6195 AISHE CODE: C-50909

**Toothpaste Consumption:** Advertisement deceives us for using toothpaste. Consumption of toothpaste is not actual as shown in advertising poster.

As shown in this photo we don't use this much paste on our brush. Overdose of Paste may cause stomach pain and possible intestinal blockage



How much is too Much?

**Less Energy Consumption Message in our college campus**



**Solar plates installed in our college so that there should be less use of Energy**





### **SDG 13: Climate Action**

Climate action refers to efforts taken to combat climate change and its impacts. These efforts involve reducing greenhouse gas emissions (climate mitigation) and/or taking action to prepare for and adjust to both the current effects of climate change and the predicted impacts in the future (climate adaptation).



**The institute premises have excellent greenery along with green House & internal pathways.**



**SDG 13.b:** Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities







**Photo 1 & 2:** Global Warming and Earth Conservation Poster Presentation from students

**Goal 6: Clean water and Sanitation**



**College Campus Get Clean and Sanitised Everyday**

Goal 6 of the United Nations Sustainable Development Goals (SDGs) is focused on ensuring access to clean water and sanitation. It is officially called "Clean Water and Sanitation," and its specific target is to "ensure availability and sustainable management of water and sanitation for all." Here are some initiative Zeal institute Conducts for our Students





**We Provide Pure and Filtered Water to Students**

**SDG 15: Life on Land**

**Tree Planation** is one of most ambitious initiatives of the Government of Maharashtra. With respect to this initiative Maharashtra Government had launched a massive drive to increase the green cover across the state. As a part of the initiative, the Maharashtra Government decided to plant around 2 crore trees across the state. Also, the state government also announced its plan to plant 50 crore saplings in the next three years

ZIMCA had set the target of 1001 trees to be planted was fixed and it was seen that 401 number of trees were planted. Grow Trees works towards the objective of preserving the environment by addressing two root problems of deforestation and global warming through an idea as simple as planting of trees.

**Tree Plantation at Korigad Fort.**



**The Tree plantation was captured well with the help of photographs**

**The Tree plantation was captured well with the help of photographs**





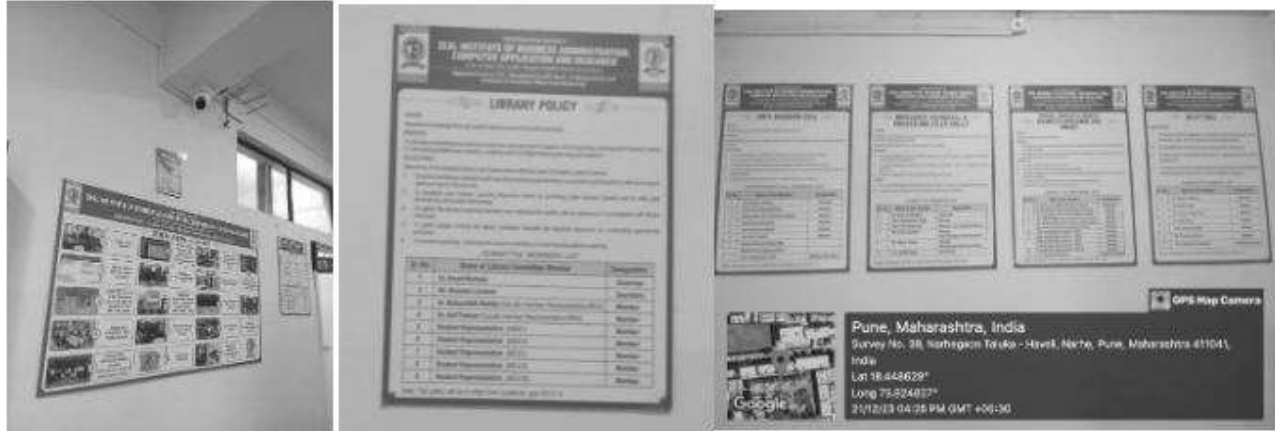
ZEAL EDUCATION SOCIETY'S  
**ZEAL INSTITUTE OF MANAGEMENT AND COMPUTER APPLICATION (ZIMCA)**



NARHE | PUNE | INDIA  
 PUN CODE: IMMP015570      DTE CODE: MB6195      AISHE CODE: C-50909

**SDG 4: Quality Education**

The goal of ensuring quality education is recognized as a key component of the United Nations' Sustainable Development Goals (SDGs), specifically as Goal 4: "Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all." The importance of quality education in the context of sustainable development lies in its potential to address a range of social, economic, and environmental challenges.



**Importance of Education and Value of Education in our corridor**



**Conducted some session for Awareness of Education in nearby Areas**



**Teaching Students on Projector; Demonstration teaching Method used while Teaching.**





## SDG 9: Industry, Innovation and Infrastructure

Sustainable Development Goal 9 (SDG 9) is one of the 17 global goals set by the United Nations in its 2030 Agenda for Sustainable Development. SDG 9 aims to "build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation."



**Industry Visit to Rieter India Pvt, Ltd.**

### 1. Research papers

| Sr.no | Name of Research article  | Mapping with UN sustainable goals              |
|-------|---|--|
| 1     | Chapter 3. A Systematic Literature Review of STEM Education in Changing National and Global Policies and Procedures | Dr. Madhavi Shamkuwar<br>Prof. Pandurang Patil |
| 2     | Systematic Literature Review and Bibliometric Analysis for Smart and Sustainable Agriculture                        | Dr. Madhavi Shamkuwar<br>Prof. Pandurang Patil |
| 3     | Smart city - An assessment of information technology dimensions   | Dr. Madhavi Shamkuwar<br>Prof. Pandurang Patil |





|   |   |   |
|---|---|---|
| 4 | Social media analytics for societies and businesses:<br>Bibliometric analysis   | Dr. Madhavi Shamkuwar<br>Prof. Pandurang Patil  |
| 5 | Study On E-Waste Concerns And Troubles In India   | Dr. B. J. Mohite,<br>Khushboo<br>Yadav(Student)<br>Priti Ravatkar(Student)<br>Gayatri<br>Angaitkar(Student) |
| 6 | Implementation of sustainable goals for using Artificial<br>Intelligence: Recent Trends and Future prospects<br>(submitted for publication) | Dr. Madhavi Shamkuwar   |

### Systematic Literature Review and Bibliometric Analysis for Smart and Sustainable Agriculture

Madhavi Shamkuwar<sup>1</sup>, Vidya Kadane<sup>2</sup>, Priti Arta<sup>3</sup> and Pandurang Patil<sup>4</sup> \*

<sup>1</sup>Zeal Institute of Business Administration, Computer Application & Research, Pune, India  
<sup>2</sup>Rajawade Institute of Technology Rajawade, Affiliated to Shivaji University, Kolhapur, India  
<sup>3</sup>Department of Entrepreneurship, Innovation, and Strategy, Newcastle Business School,  
 Central Queensland University, Queensland, Australia  
<sup>4</sup>Zeal Institute of Business Administration, Computer Application & Research, Pune, India

#### Social media analytics for societies and businesses: Bibliometric analysis

\*Dr. Madhavi Shamkuwar, \*Mr. Jyoti Kadane, \*Mr. Pandurang Patil, \*Dr. Kishor More

<sup>1,2</sup>Assistant Professor, Zeal Institute of Business Administration, Computer Application & Research, Pune

<sup>3</sup>Assistant Professor, Stajgal Institute of Management & Computer Application, Pune

#### Abstract

By 2022, there are expected to be 4.62 billion active social media users, or 59% of the world's population, and this number is expected to increase quickly. Through social media, the consumer in this new era can communicate directly with other people, businesses, and the government. Social media is without a doubt the most abundant source of human-generated text input. Opinions, feedbacks, perspectives, thoughts, and critiques offered by internet users represent attitudes and sentiments toward particular topics, products, companies, or services in many ways. The gigantic amount of heterogeneous data data generated through various social media platform provides a rich and a collaborative way for consumers to stay connected across both public and private forums.

#### Abstract

The digital farming ecosystem involves multiple stakeholders including farmers, customers, vendors, consumers, retail malls, and a third party. The system involves multiple processes including farming, the use of pesticides, food security, breeding, feeding, and nutrition. The system is highly complex in nature involving data sources in heterogeneous data generated by multiple stakeholders and processes that are crucial. In recent times, topics like smart agriculture, sustainable agriculture, and precision agriculture have started gaining momentum. The technology is the 'yarn' or 'loom'. The sure bet in the implementation of multiple technologies such as Blockchain, the Internet of Things, big data analytics, machine learning, artificial intelligence, and self-computing. Also, it may become a cause for maintaining the agricultural ecosystem related to privacy concerns, security issues, data leakage, etc. It has become essential to design robust technology strategies to solve agriculture problems and even to predict the future of the industry. The current agriculture system

PRAYUKTI  
Journal of Management Applications  
ISSN 2583-1990 (Online)  
Volume 3, Issue 1, January 2022

**DPU** Dr. D. Y. Patil  
B-School  
Pune (Approved by AICTE, Ministry of Education, Govt. of India)

#### Smart city - An assessment of information technology dimensions

M. Shamkuwar<sup>1</sup>, R. More<sup>2</sup> and P. Patil<sup>3</sup>

<sup>1,2</sup>Assistant Professor, Zeal Institute of Business Administration, Computer Application & Research  
<sup>3</sup>Assistant Professor, Stajgal Institute of Management and Computer Application, Pune, India

DOI: <http://doi.org/10.5281/1471914.2023.1101>

ARTICLE TYPE: Review paper

ARTICLE HISTORY: Submitted: October 2022, November - April 2022, Accepted: December 2022

HOW TO CITE: Shamkuwar, M., More, R. and Patil, P. (2023) Smart city - An assessment of information technology dimensions. *Prayukti - Journal of Management Applications*, Vol. 3, Issue 1, pp. 01-11.

\*Corresponding author e-mail: madhavi.shamkuwar@zeal.edu



ISSN: 2582-5008

International Research Journal of Modernization in Engineering Technology and Science  
 (Peer-Reviewed, Open Access, Fully Refereed International Journal)  
 Volume:05/Issue:01/January-2023      Impact Factor- 6.752      www.trjournals.com

#### STUDY ON E-WASTE CONCERNS AND TROUBLES IN INDIA

Khushboo Yadav<sup>1</sup>, Priti Ravatkar<sup>2</sup>, Gayatri Angaitkar<sup>3</sup>, Dr. B. J. Mohite<sup>4</sup> \*

<sup>1,2,3,4</sup>Zeal Institute of Business Administration Computer Application and research, Pune, Maharashtra

#### ABSTRACT

The purpose of the current study is to identify the many problems and practical challenges that India is now experiencing with managing electronic waste. According to research by the Basel Action Network (BAN), which aims to stop the globalization of dangerous chemicals, 50 to 80 percent of the IT e-waste is transferred to countries including India, China, Pakistan, Taiwan, and several African nations. This is accomplished because recycling is available cheaper labor in these nations. E-waste export is also permitted in the US. Recycling and disposal of e-waste cause significant pollution in China, India and Pakistan. China recently outlawed the import of e-waste. Since the informal sector in India is largely responsible for recycling e-waste and lacks the resources to handle either the growing volume or some processes, there is an undeniable risk to both human health and the environment. The current methods of managing e-waste in India face a number of difficulties, including the difficulty of ineffective regulations, the disposable and unsafe practices of informal recycling, the low level of consumer awareness, and the unwillingness on the part of the stakeholders to address the issues.

**Keywords:** Electronic Waste, Electronic Trash, Biodegradable, Ethical Management.





Manuscript ID: AISS-162: Implementation of Sustainable goals using Artificial Intelligence: Recent Trends and Future prospects- Acceptance with amendments for [Inbox](#)

CRCBook rat.sustainablestrategy@gmail.com  
to me

Fri, Jun 23, 1:52 PM

Dear Ms. Madhavi Shamkuwar, Ms. VidyaKadam

Greetings from Editorial Team!

We are pleased to inform you that your manuscript ID: AISS-162, with the Title: **"Implementation of Sustainable Goals using Artificial Intelligence: Recent Trends and Future Prospects"**, submitted for Chapter proposal for our book entitled: **Using AI to Develop Sustainability Strategies for the Changing Global Economy**.

We are informing you that the Chapter Proposal submitted by you has been **Accepted with the required revisions**. The proposal lacks a detailed description of the methodology. It does not provide specific details on the methodology, such as the selection criteria for articles, the data analysis techniques, or the systematic approach to be followed. Including a clear statement on the significance of the research and how it fills a gap in knowledge would strengthen the proposal.

#### Final Version Manuscript

You are required to submit the Full Chapter by 15<sup>th</sup> October 2023, in both .pdf and .doc/.docx (MS Word) format, and follow the Guidelines attached with this mail, please.

In case of any queries, please feel free to contact us.

Regards,

<https://novapublishers.com/shop/stem-a-multi-disciplinary-approach-to-integrate-pedagogies-inculcate-inno...>  
School of Business Management, Emirates Aviation University, Dubai, UAE

#### Chapter 3. A Systematic Literature Review of STEM Education in Changing National and Global Policies and Procedures

Madhavi Shamkuwar<sup>1</sup>, PhD, Pandurang Patil<sup>1</sup>, Rahul More<sup>2</sup>, PhD and Sujata Barde<sup>3</sup>

<sup>1</sup>Zeal Institute of Business Administration, Computer Application & Research, Savitribai Phule Pune University, Pune, India

<sup>2</sup>Sinhgad Institute of Management & Computer Application, Savitribai Phule Pune University, Pune, India

<sup>3</sup>Pune Institute of Computer Technology, Savitribai Phule Pune University, Pune, India

