# THE POWER OF WIND ENERGY

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

S. Sobhikadevi -2022B39

S. Akil Louisa-2022B01


**Project on Environmental Studies**
**DEPARTMENT OF COMPUTER SCIENCE**
FATIMA COLLEGE (AUTONOMOUS)
Re- Accredited with A++ Grade by NAAC (Cycle IV)
Mary Land, Madurai – 18
Nov – 2023

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18
DEPARTMENT OF COMPUTER SCIENCE


## BONAFIDE CERTIFICATE

This is to certify that this project entitled "THE POWER OF WIND ENERGY " is a bonafide of the project work done by [S.Sobhikadevi-2022B39,S.Akil Louisa-2022B01] in partial fulfilment of the requirement for the Award of the Degree of BACHELOR OF SCIENCE in COMPUTER SCIENCE. It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Staff Incharge

Place: Madurai
Date:10.08.2023

## DECLARATION

We hereby declare that the project entitled "THE POWER OF WIND ENERGY " is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

S. Akil Louisa

2022B01-S. Akil Louisa

Place: Madurai

Date :10.08 .2023

S. Sobhikadevi

2022B39-S.Sobhikadevi

## ABSTRACT

Wind is a renewable energy source. Overall, using wind to produce energy has fewer effects on the environment than many other energy sources. So we have created a project about the power of wind energy. The introduction gives a brief information about wind energy and its uses. Then we take a look on the history of wind energy. It is quite beneficial to know about how various types of wind turbines look like and where they could be used. So, why don't we take efforts to learn about the types of wind turbines? All of us must have seen windmills, but how many of us really know the process of wind turbines? That's why we have explained about the process of wind turbines. We all know that wind energy is a renewable source of energy. But then there are also other benefits and uses of wind energy that can make us wonder. We have created a list of its uses. Why should we limit our knowledge while we can learn more about wind turbines? We also added additional information about off shore wind power in India.

# MEARSURES TO PROTECT THE DESTRUCTION OF MOUNTAINS

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfillment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B23 - Keerthana. V**

**2022B02 - Amritha. M**


**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18

DEPARTMENT OF COMPUTER SCIENCE


## BONAFIDE CERTIFICATE

This is to certify that this project entitled "MEASURES TO PROTECT THE DESTRUCTION OF MOUNTAINS "is a bonafide record of the project work done by 2022B23- Keerthana.V and 2022B02- Amritha. M, in partial fulfillment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

**Staff Incharge**

Place: Madurai

Date: 10.08.2023

## DECLARATION

We hereby declare that the project entitled "MEASURES TO PROTECT DESTRUCTION OF MOUNTAINS " is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfillment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

V. Keerthana

M. Amritha

(Signature)

Place: Madurai

(Name with Reg. No)

2022B23 - Keerthana.V

Date: 10.8.2023

2022B02 - Amritha. M

# ABSTRACT

In this project we shall overview the measures taken to protect the destruction of the mountains. As we all know that Mountain is the place, where we shall see all the facilities like good soil erosion, fresh water, shelter, for the trekkers to climb to achieve their goal to reach the peak, biodiversity and the species of living and non-living lives there. And at the other side, it also causes disasters like earthquake, landslides, avalanche, volcanic eruption etc... But that's nature creation. Human activities also cause some destruction on the mountains like mining, timbering, cutting down of trees etc... As we are the users of the mountains, we must take or make some measures to protect the destruction of the mountains with our responsibilities and duties. Mountains are the main important part of nature. So first we shall see about the introduction to mountains and its uses. Secondly, we see about the specific problems, and the disasters and the reasons for it, and the challenges that the mountains faces. Thirdly we see about the remedies and the measures to prevent or protect the destruction of the mountains. Lastly the conclusion to the topic and the pictures related to the mountains (refer the last two pages for pictures.).

So we should always remember about the uses of a particular nature creation of the god, in this especially the mountains, which is the friend of the nature. Mountains are the place to reconnect to nature, to relax and to enjoy a clean environment and fresh air. The popularity of mountains during the current pandemic clearly showed the need of humans to enjoy nature. And mountains also provide us with many important goods, including wood, pastures for livestock etc... All are provided by mountain ecosystems, through complex processes, that are maintained by the community of different species and their interactions between them and with the abiotic environment. Those species are numerous in nature. They also comprise invisible microorganism, tiny plankton species, small plants, trees, swift birds etc... Those species also produce organic matter, bind $CO_2$, and produce oxygen. So therefore as a humans we may raise an awareness over the environmental issues over and education on mountain preservation and sustainable development practice. Hence we move to the report on the measures to protect the destruction of the mountains...

# MEASURES TO PROTECT RIVER BODIES

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B03-A.Arokiya Amala Santhiya**

**2022B11-A.Hema Kanikkai Tresa**


**Project on Environmental Studies**
**DEPARTMENT OF COMPUTER SCIENCE**
FATIMA COLLEGE (AUTONOMOUS)
Re- Accredited with A++ Grade by NAAC (Cycle IV)
Mary Land, Madurai – 18
Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled **Measures to protect river bodies** is a bonafide record of the project work done by 2022B03-A.Arokiya Amala Santhiya,2022B11-A.Hema Kanikkai Tresa in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

Date: 10/8/2023

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled Measures to protect river bodies is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

A. Arokiya Amala Santhiya

Place: Madurai

2022B03-A.Arokiya Amala Santhiya

A. Hema Kanikkai Tresa

2022B11-A.Hema Kanikkai Tresa

Date: 10/8/2023

## Abstract

Large rivers being the lifeline of human beings have been serving for millennia as sources of food, water, and energy, easy means of transportation, as sinks for an array of pollutants, as a place for religious activities, and as objects for the artistic and aesthetic interest. Despite the importance of large rivers, research studies on the eco-functionality of large rivers in view of the ongoing ecological perturbations mostly caused by the direct or indirect intervention of human beings is limited. An integrative and holistic approach has been made in writing up this book in order to arrive at an understanding of the mutual interactive relationships between aquatic and terrestrial landscapes through the exchange of both biotic and abiotic components. Besides, geohydrological assessment of the riverine ecosystems mostly emphasized on the geomorphological and hydro-biological problems along the ecological gradients (geological processes coupled with climatic variability, flow patterns, depth and volume of water, channel slope, stream discharge, sediment input, sediment transport, sediment caliber, characteristics of banks and valley slope, and the resultant biological organization) in the temporal and spatial scales by combining relevant inputs of the different disciplines of geomorphology, hydrology, and ecology at different levels of organization and associated scales have been dealt with. The diversity and heterogeneity of the habitats considerably influence the oxygen balance of river systems, both by enhancing exchange with the air and through biological activity (riffles, levees, floodplains, etc.) which promote aeration of the water through turbulent and diffusion processes, whereas profuse growth of macrophytes produce oxygen through photosynthsis.

# PROTECTION AND SUSTENANCE OF ENDANGERED BIRDS

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

2022B26 - Mahalakshmi V

2022B04 - Betchi Bavya A


**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled "PROTECTION AND SUSTENANCE OF ENDANGERED BIRDS " is a bonafide record of the project work done by 2022B26 - Mahalakshmi V, 2022B04 - Betchi Bavya A in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Staff Incharge

Place: Madurai

Date: 10.08.2023

## ~~DECLARATION~~

# DECLARATION

We hereby declare that the project entitled "PROTECTION AND SUSTENANCE OF ENDANGERED BIRDS" is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

V. Mahalakshmi

2022B26 -Mahalakshmi.V

A. Betchi Bavya

2022B04 - Betchi Bavya.A

Place: Madurai

Date: 10.8.2023

# PROTECTION AND SUSTENANCE OF ENDANGEREDBIRDS

## ABSTRACT

First, there's an introduction that answers questions most people will have.

After that, each part begins with a brief description of what's happening followed by specific actions people can take.

And yes, what's happening to our environment can be disturbing, even depressing.

However, each of the solutions represents an opportunity to help the economy, create jobs, and build a better life for everyone.

Most of the specific (personal) solutions are easy. And many of them can save you money plus improve your health.

# STEPS TO PREVENT GLOBAL WARMING AND MELTING OF GLACIERS

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.

Submitted by

**2022B05-J.Boomika Jeba Anto Joe**

**2022B09-A.Duefrine Lisha**

**Project on Environmental Studies**

**DEPARTMENT OF COMPUTER SCIENCE**
FATIMA COLLEGE (AUTONOMOUS)
Re- Accredited with A++ Grade by NAAC (Cycle IV)
Mary Land, Madurai – 18

Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled " STEPS TO PREVENT GLOBAL WARMING AND MELTING OF GLACIERS " is a bonafide record of the project work done by 2022B05-J.Boomika jeba anto jeo,2022B09-A.Duefrine lisha in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

**Staff Incharge**

Date: 10.08.2023

## DECLARATION

We hereby declare that the project entitled "STEPS TO PREVENT GLOBAL WARMING AND MELTING OF GLACIERS" is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

Signature

J. Boomika Jeba Anto Joe

Place: Madurai

2022B05-J.Boomika Jeba Anto Joe

A. Duefrina Lisha

Date: 10.08.2023

2022B09-A.Duefrine Lisha

# The Power Of Solar Energy

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.

Submitted by

2022B33 - Princy A J R

2022B06 - CelinPreethi A

**Project on Environmental Studies**
**DEPARTMENT OF COMPUTER SCIENCE**
FATIMA COLLEGE (AUTONOMOUS)
Re- Accredited with A++ Grade by NAAC (Cycle IV)
Mary Land, Madurai – 18
Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled **"The Power Of Solar Energy"** is bonafide record of the project work done by **2022B33-Princy A J R, 2022B06 - CelinPreethi A** in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** Itis based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

**Staff Incharge**

Place : Madurai

Date : 10-08-2023

## DECLARATION

We hereby declare that the project entitled **"The Power Of Solar Energy"** is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

A. J. R. Princy

Place : Madurai.

Date: 10-08-2023

2022B33-Princy A J R

A. Celin Preethi

2022B06- Celin Preethi A

## ABSTRACT

The Solar Energy is produced by the Sunlight is a non-vanishing renewable source of energy which is free from eco-friendly. Every hour enough sunlight energy reaches the earth to meet the world's energy demand for a whole year. In today's generation we needed Electricity every hour. This Solar Energy is generated by as per applications like industrial, commercial, and residential. It cans easily energy drawn from direct sunlight. So it is very efficiency & free environment pollution for surrounding. In this article, we have reviewed about the Solar Energy from Sunlight and discussed about their future trends and aspects. The article also tries to discussed working, solar panel types; emphasize the various applications and methods to promote the benefits of solar energy.

# REMEDIAL MEASUREMENT FOR AIR POLLUTION

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

2022B07-J.Christina Infanta

2022B27-R.Mariya Blessy



**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled "REMEDICAL MEASURMENT FOR AIR POLLUTION "is a bonafide record of the project work done by [Reg.No. – name] in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: MADURAI

Date: 10.08.2023

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled "REMEDICAL MEASURMENT FOR AIR POLLUTION "is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

J. Christina Infenta

J. Christina Infenta-2022B07

R. Mariya Blessy

R. Mariya Blessy-2022B27

(Signature)

(Name with Reg.No.)

Place: Madurai

Date: 10.08.2023

# ABSTRACT

Air pollution is a pervasive environmental concern that has far-reaching impacts on human health, ecosystems, and the global climate. This paper explores the diverse aspects of air pollution, encompassing its sources, types of pollutants, effects on both humans and the environment, and historical evolution. The discussion delves into the present challenges posed by air pollution, exacerbated by urbanization, industrialization, and transportation. It also delves into the future trajectory of air pollution, highlighting the shift towards cleaner energy sources, technological advancements, and the need for international cooperation.

The paper provides insights into the state of air pollution across different regions, spotlighting examples from around the world, with a focus on India, its state of Tamil Nadu, and the city of Madurai. This micro-level analysis underscores the various efforts and initiatives undertaken to combat air pollution in these regions.

Further, the document explores a range of measures to address air pollution, encompassing individual actions such as reducing vehicle emissions, supporting clean energy, advocating for stricter policies, and fostering awareness. It examines the use of devices like scrubbers, incineration, and carbon capture as means to control pollution at the source.

The paper concludes with a call to action, emphasizing the importance of collective efforts involving governments, industries, communities, and individuals. The significance of continuous innovation, awareness-raising, and international collaboration in the ongoing battle against air pollution is highlighted. This encapsulates the comprehensive exploration of air pollution, its challenges, solutions, and the imperative to foster a cleaner and healthier environment for present and future generations.

# EFFECTIVE MANAGEMENT OF NON-BIODEGRADABLE WASTE

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj niversity in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B08-J.DENI FLENCIA**

**2022B37-S.C.SAMEESHA**


**Project on Environmental Studies**
**DEPARTMENT OF COMPUTER SCIENCE**
FATIMA COLLEGE (AUTONOMOUS)
Re- Accredited with A++ Grade by NAAC (Cycle IV)
Mary Land, Madurai – 18
Nov – 2023

# FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18
## DEPARTMENT OF COMPUTER SCIENCE

## BONAFIDE CERTIFICATE

This is to certify that this project entitled "**Effective management of Non-biodegradable waste**" is bonafide record of the project work done by **2022B08-J. Deni Flencia 2022B37-S.C. Sameesha** in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** Itis based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

**Staff Incharge**

Place: Madurai

Date: 10-08-2023

# DECLARATION

We hereby declare that the project entitled **"Effective management of Non-biodegradable waste"** is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

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J. Deni Flencia.

Place: Madurai

Date: 10-08-2023

2022B08-J. Deni Flencia

S. C. Sameesha

2022B37-S.C.Sameesha

# ABSTRACT

Waste is defined as discarded material which has no value in normal use or for ordinary use. Solid wastes are those undesirable, useless and unwanted materials and substances that comes from human and animal activities. Generation of wastes is inevitable. The management of wastes assumes importance in view of the environmental hazards they pose. According to UNICEF, the solid waste can be classified into biodegradable and non-biodegradable waste. Biodegradable waste, that are completely decomposed by biological process either in presence or in absence of air are called biodegradable. E.g kitchen waste, animal dung, agriculture waste etc. Non-biodegradable waste, which cannot be decomposed by biological processes is called non-biodegradable waste. These are of two types-recyclable: Waste having economic values but destined for disposal can be recovered and reused along with their energy value. E.g plastic, paper, old cloth etc. Non-recyclable: Waste which do not have economic value of recovery .E.g Carbon paper, thermos coal, tetra packs etc. Disposal of non-biodegradable waste is a major concern, not just plastics, a variety of waste being accumulated. There are a few ways to help non-biodegradable waste management. In the present study we have discuss about the impact of non-biodegradable waste on the environment and also focus on its safe disposal for sustainable environment.

# MEASURES TO PREVENT CULTIVABLE LANDS BEING CONVERTED TO THE CONCRETE JUNGLES

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B21 - J. Joshna Berlin Roy**

**2022B10 - A. Hanifa Fathima**


**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**


## BONAFIDE CERTIFICATE

This is to certify that this project entitled "MEASURES TO PREVENT CULTIVABLE LANDS BEING CONVERTED TO THE CONCRETE JUNGLES" is a bonafide record of the project work done by 2022B21 - J. Joshna Berlin Roy and 2022B10 – A. Hanifa Fathima in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

Date: 10.08.2023

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled "MEASURES TO PREVENT CULTIVABLE LANDS BEING CONVERTED TO THE CONCRETE JUNGLES" is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

J. Joshna Berlin Roy

A. Hanifa Fathima

(Signature)

(Name with Reg. No.)

Place: Madurai

Date:10.08.2023

J. Joshna Berlin Roy.

2022B21 - J. Joshna Berlin Roy

A. Hanifa fathima

2022B10 – A. Hanifa Fathima

# ABSTRACT

Here in this assignment it is said about the topic Measures to prevent the cultivable lands being converted to concrete lands and the steps are been explained in detail with the pictures. As we know that the cultivable lands are the farming lands which is used for the Cultivation. But now we can come across that the cultivable lands are being destroyed by the industrialist to build and develop their companies to gain profit and the lands are been damaged by pouring more and more pesticides and insecticides in which it poisons the grains. Coming to the content, the we will see is implementing zoning regulations and it says about that it is a key strategy to prevent the cultivable lands. Promoting urban agriculture is proactive measuring method in order to increase the lands. Incentivizing green spaces is a crucial strategy to prevent the conversion of cultivable lands into concrete jungles. Encouraging mixed land-use planning involves designing urban areas where various functions like residential, commercial, and agricultural coexist. Fostering community engagement in urban planning decisions is a vital strategy to prevent cultivable lands from being converted into concrete jungles.

The next title says that the procedures to increase the cultivable lands. It is explained with various method like land reclamation, terracing, urban agriculture, agroforestry, land conversion, precision agriculture, crop rotation, soil improvement, irrigation development, land tenure reforms, intercropping, afforestation and reforestation. In the importance of the cultivable lands, we can see that with many points like Food production, economic value, biodiversity and ecosystem, climatic regulations, rural development, raw material, water management, land preservation, innovation and research, social stability. The following details has been explained with the pictures that how the lands are been destroyed and being surrounded by the buildings. At last, in the conclusion it says that it is our responsibility to increase the lands not only for ourselves but for the upcoming generations.

# Problems and remedies for noise pollution

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

2022B12-R. Hephzibah Angelin

2022B24-L. Kiruba


**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov-2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled " Problems and remedies for noise pollution " is a Bonafide record of the project work done by R. Hephzibah Angelin-2022B12, L.Kiruba-2022B24 in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

**Staff Incharge**

Date: 10.08.2023

## DECLARATION

We hereby declare that the project entitled " Problems and Remedies for noise pollution " is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

R. Hephzibah Angelin

Place: Madurai

2022B12-R.Hephzibah Angelin

Date: 10.08.2023

L. Kiruba

2022B24-L.Kiruba

## ABSTRACT

Noise pollution is an invisible danger. It cannot be seen, but it is present nonetheless, both on land and under the sea. Noise pollution is considered to be any unwanted or disturbing sound that affects the health and well-being of humans and other organisms. Sound is measured in decibels. Noise pollution is the presence of intrusive and unnecessary sounds that can seriously influence human mental and physical health.

Noise pollution is the excessive noise that may harm the activity or balance of human beings. The source of most noise worldwide is mainly caused by atmospheric noise, environmental noise, and occupational noise such as industrial machines, transportation systems, and indoor noise generated by machines, building activities, domestic appliances, and music performances. Noise pollution is a major problem in cities around the world and is defined as unwanted sound. It is a form of air pollution and a threat to health and well-being.

Noise pollution is a pressing issue with far-reaching consequences. Its negative impact on human health, wildlife, and overall well-being cannot be ignored. Addressing noise pollution requires a multi-faceted approach involving awareness, regulations, urban planning, and technological advancements. By taking concerted efforts to reduce noise levels and promote quieter environments, we can create a more peaceful and harmonious world for everyone.

We the people should take measures to prevent noise pollution by reducing the volume of electronic machines, speaking politely. lower the horn near school, hospitals etc...by planting trees we can reduce noise because when there is more spacious areas there created noise pollution. we should lower the volume of electronic ships when in ocean. Even the sounds of the these kind of ship it may affect the living organisms in ocean and lead to death.

# Effective management of e-waste

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

2022B14-Jas Veronica.S

2022B38-Santhiya.S


**Project on Environmental Studies**

**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18

Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled "Effective management of e-waste "is a bonafide record of the project work done by 2022B14-Jas veronica.S, 2022B38-Santhiya.S in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

Date: 10.08.2023

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled "Effective management of e-waste" is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

S Jas Veronica

Place: Madurai

Date: 10.08.2023

2022B14-Jas veronica.S

S Santhiya

2022B38-Santhiya.S

# ABSTRACT

Electronic waste (e-waste) is one of the fastest-growing pollution problems worldwide given the presence if a variety of toxic substances which can contaminate the environment and threaten human health, if disposal protocols are not meticulously managed. "E-waste" is a popular, informal name for electronic products nearing the end of their "useful life. "E-wastes are considered dangerous, as certain components of some electronic products contain materials that are hazardous, depending on their condition and density. The hazardous content of these materials pose a threat to human health and environment. Discarded computers, televisions. VCRs. stereos, copiers, fax machines, electric lamps, cell phones, audio equipment and batteries if improperly disposed can leach lead and other substances into soil and groundwater. Many of these products can be reused, refurbished, or recycled in an environmentally sound manner so that they are less harmful to the ecosystem. This paper highlights the hazards of e-wastes, the need for its appropriate management and options that can be implemented. This project is about the e waste causes and how can it be maintained by human. The various measures taken by the government and the citizen is being explained here, and the hazardous e waste which contains many toxic metals are also explained.

# ENDANGERD AQUATIC ANIMALS

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

2022B15-J.Jasmine Packiya

2022B40-S.Vanisree


**Project on Environmental Studies**

**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18

Nov – 20223

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**


**BONAFIDE CERTIFICATE**

This is to certify that this project entitled " **endangered aquatic animals**" is a bonafide record of the project work done by 2022B15&2022B40– J.Jasmine Packiya & S .Vanishree partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE**. It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: MADURAI

Date: 10.08.2023

**Staff incharge**

## DECLARATION

We hereby declare that the project entitled "**endangered aquatic animals** " is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

Place:madurai

Date: 10.08.2023

J. Jasmine Packiya

J.Jasmine packiya-2022B15

S. VaniSree

S.Vanishree-2022B40

## ABSTRACT

Today human population increase wisely. Human needs also increased, by this needs many animals were killed. We use many plastic things and dispose them improperly. By these activities aquatic animals life is affected. We throw the plastics in seas, aquatic species eat the plastics and it is not properly digested, this leads to death of the aquatic animals. Decrease of animal leads to endangered. We human are erasing the life of aquatic animals and also we are going to miss lot of them. The species which we can see now our future generation cannot. So we are responsible for saving life of aquatic animals.

# IMPORTANCE OF PERSONAL HYGIENE IN ADOLESCENT GIRLS

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai kamarajUniversity in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B43 - Pavila Jose. J**

**2022B16 - Jasmine Ruby. C**


**Project on Environmental Studies**


DEPARTMENT OF COMPUTER SCIENCE

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18
DEPARTMENT OF COMPUTER SCIENCE


## BONAFIDE CERTIFICATE

This is to certify that this project entitled "**Importance of Personal Hygiene in Adolescent Girls**" is a bonafide record of the project work done by **2022B43-Pavila Jose.J, 2022B16-Jasmine Ruby.C** in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai
Date: 10/08/23

Staff Incharge

## DECLARATION

We hereby declare that the project entitled "**Importance of Personal Hygiene in Adolescent Girls** " is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

J. Pavila jose

Place: Madurai

Date: 10/08/2023

**2022B43- Pavila Jose. J**

C. Jasmine Ruby

**2022B16 - Jasmine Ruby. C**

# ABSTRACT

Adolescence is considered to be a very crucial transitional stage of girl's life, with acute crisis in which her future is at state. The girl child until the attainment of womanhood undergoes through different stages of life cycle. The adolescent girls experience emotional challenges and issues of sexuality soon after onset of puberty. Puberty is a unique and distinctive period and is characterized by certain developmental changes that occur in no other time in life span. During adolescence, puberty can occur at anytime between ages thirteen to nineteen year. This rapid growth and body changes are likely to be accompanied by fatigues, restlessness isolation, lack of interest feeling of to take part in activities in school and family. During this period many health hazards can affect them due to lack of knowledge, superstitious family system, fear to clarify their doubts with elders, neglecting of boys, lack of confidence etc. Healthy hygienic practices of adolescent girls are primary concern for overall development of women. Different studies reveals that the first menstrual of young girls is often traumatic in most part of the country although almost all communities in Tamil Nadu, the event is marked is with festive celebration as " manjal neer-attu vizha To study the level of awareness on health and hygiene practices and family orientation school going adolescent girls. Purpose sampling design was used to study through questionnaire. Almost ninety percent of the girls were aware of the puberty. Sixty one per cent girls were restricted to enter into kitchen during the menstrual period. Half (57 per cent) of the girls attended the health awareness programmes in Schools.

# MEASURES TO PREVENT AND RESTORE RAIN FOREST

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B18-A.JEMIMA**

**2022B20-P.JOSELYN RATCHIGA**


**Project on Environmental Studies**
**DEPARTMENT OF COMPUTER SCIENCE**
FATIMA COLLEGE (AUTONOMOUS)
Re- Accredited with A++ Grade by NAAC (Cycle IV)
Mary Land, Madurai – 18
Nov – 2023

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18

DEPARTMENT OF COMPUTER SCIENCE

## BONAFIDE CERTIFICATE

This is to certify that this project entitled **MEASURES TO PREVENT AND RESTORE RAIN FOREST** is a bonafide record of the project work done by 2022B18-A.JEMIMA,2022B20-P.JOSELYN RATCHIGA in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

Date: 10.08.2023

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled **MEASURES TO PREVENT AND RESTORE RAIN FOREST** is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

A. Jemima
P. Joselyn Ratchiga.

(Signature)

Place: Madurai

2022B18-A.JEMIMA

2022B20-P.JOSELYN RATCHIGA

Date: 10.08.2023

# ABSTRACT

Measures to prevent and restore rain forest are crucial for their long term conservation sustainability.This abtract provides an overview of the various stratigies and actions that can be undertaken to achieve these goals.Prevention measures focus on halting further deforestation and habitat destruction.This includes the establishment and expansion of protected areas,national parks and reserves to safeguard rainforest ecosystems.Sustainable agriculture practices,such as agroforestry and organic farming,can also b promoted to reduce the need for deforestation Additionally,responsible logging practices,such as selective logging ,can minimize damage to the forest and allow for natural regeneration.Restoration measure aim to restore degraded rainforest areas and increase forest cover.Large scale reforestation projects can be implemented,focusing onnative tree species to promote biodiversity and ecosystem resilience.Forest restoration can help sequester carbon dioxide,support wildlife habitats and protect watersheds.Recognizing and respecting the land rights of indigenous communities is crucial,as they often have deep knowledge of sustainable practices and can be effective stewards of rainforest ecosystems,providing support and opportunities for local communities to engage in sustainable and alternative livelihoods , such as eco tourism or sustainable harvesting of non timber forest products can also reduce dependence on deforestation.Education and awareness campaigns play a vital role in highlighting the importance of rainforests and the threats they face . By fostering a sense of responsibility and encouraging individuals and communities to take action,these campaigns can drive sustainable consumer choices and promote a border understanding of the value of rainforests.Addressing the rootcauses of climate change is also crucial for rain forest conservation .This involves reducing greenhouse gas emissions and transitioning to clea and renewable energy sources,as climate change poses a significant threat to the long term survival rain forest.Combining these measures and involving stakeholders at various levels is essential for effective rainforest prevention and restoration efforts.By taking proactive action,we can protect and restore these invaluable ecosystems,ensuring their continued existence for future generations.

# EFFECTIVE DISPOSAL OF BIOMEDICAL WASTE

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

2022B36 – Rinoviola .X

2022B19 – Jones Maria .S.R



**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18

DEPARTMENT OF COMPUTER SCIENCE

## BONAFIDE CERTIFICATE

This is to certify that this project entitled " Effective Disposal of Biomedical Waste" is a bonafide record of the project work done by 2022B36 – Rinoviola .X , 2022B19 - Jones Maria .S.R in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

Date: 10/08/23

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled "**Effective Disposal of Biomedical Waste**" is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

X. Rinoviola

Place: Madurai

2022B36- **Rinoviola. X**

Date: 10/08/23

S. R. Jones Maria

2022B19- **Jones Maria. S.R**

## Abstract:

Hospital wastes pose a significant impact on health and environment. From this study it can be said that there is an urgent need for raising awareness and education on medical waste issues. Proper waste management strategy is needed to ensure health and environmental safety. For further study, it is needed to collect more information on impacts, disposal and management to draw a clear conclusion. Need to collect information and examples from developed country or the country, which has sound medical waste management system. Find alternatives and appropriate technologies for developing countries. Need extensive study on this medical waste and its management aspects as well. All over the world, there is an exodus of people from villages to cities, partly for education and employment and partly because agriculture has become less and less profitable. It is estimated that 65% of the world ÂÂ`s population will live in cities by 2030. The infrastructure required for this lop-sided growth of the cities is resulting in mountains of garbage collecting in the unplanned extensions in larger cities, because of poor conservancy services and lack of civic amenities. It is estimated that the domestic garbage produced per day in Mumbai is of size of an eight stored building complex. The quality of air in the surroundings of the cities is so poor that it is estimated about two million children under five die each year from respiratory infections Falling in line with the general situation, we find certain public places like hospitals, vegetable, fish and other market places, Railway stations, Bus stands, Parks and Cinema halls are maintained un hygienically contributing to the spread of infectious diseases. It is wonder how the elite like doctors and higher officials who work in such public places and spend major part of their day time in these places are callous to the environment. Particularly, hospitals generate an enormous amount of dangerous waste. The amount of solid waste generated by hospitals has been increasing rapidly in developing countries like India and its management can no longer be ignored. Increasing concern for community health standards and pollution control requirements demand that the huge mass of infectious waste be rendered as harmless as possible before it is disposed. Against this background, an attempt is made in this paper to discuss the problem of disposal of wastes in Indian hospitals and various legislations relating to environmental protection in general and Bio-medical waste (Management and Handling) rules,1998 (amended in 2000) based on the environmental (protection)Act, 1986 in particular. In this we see about specific problems, waste Management of Biomedical waste and also Remedies and Advantages of its management. This Paper also suggests a few measures for the effective disposal of Bio medical waste.

# RESTORATION OF DWENDLING BEACHES

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

[2022B22-KARTHIGA S

2022B31-NIVASHA R]


**Project on Environmental Studies**


DEPARTMENT OF COMPUTER SCIENCFATIMA COLLEGE
(AUTONOMOUS)
Re- Accredited with A++ Grade by NAAC (Cycle IV)
Mary Land, Madurai – 18


Nov – 2023

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18

DEPARTMENT OF COMPUTER SCIENCE


## BONAFIDE CERTIFICATE

This is to certify that this project entitled "**RESTORATION OF DWENDLING BEACHES** " is a bonafide record of the project work done by [Reg.no. – name] in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** Itis based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: MADURAI

Date:10.08.2023

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled"**RESTORATION OF DWINDLING BEACHES** " is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

Place:Madurai

S. Karthiga.

Date:10.08.2023

S.Karthiga-2022B22

R. Nivasha

R.Nivasha-2022B31

# ABSTRACT

Beach restoration involves the placement of sand on an eroded beach for the purposes of restoring it as a recreational beach and providing storm protection for upland properties. Litter is small things such as a cans, bottles and paper that people leave lying on the streets and in other public places. The three main types of coastal erosion are abrasion, hydraulic action and solution. Three main forces that cause erosinare water, wind and ice. Water is the main cause of erosinon earth. Although water may not seem powerful at first it is one of the most powerful forces on the planet.

# GENETICALLY MODIFIED CROPS – A BOON OR BANE

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B25 – LARA ANGEL.J**

**2022B41 – VARSHNI.S**



**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled "**GENETICALLY MODIFIED CROPS – A BOON OR BANE**" is a bonafide record of the project work done by **2022B25 – LARA ANGEL.J** and **2022B41 – VARSHNI.S** in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

**Staff Incharge**

Place: Madurai

Date: 10.08.2023

## DECLARATION

We hereby declare that the project entitled **"GENETICALLY MODIFIED CROPS – A BOON OR BANE"** is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

J. Lara Angel

**2022B25-LARA ANGEL.J**

S. Varshni

**2022B41-VARSHNI.S**

Place: Madurai

Date: 10.08.2023

# ABSTRACT

Genetically Modified Crops posses one or more useful traits, such as, herbicide tolerance,.insect resistance, abiotic stress tolerance, disease resistance, and nutritional improvement. To date, nearly 525 different transgenic events in 32 crops have been approved for cultivation in different parts of the world. Genetically Modified crops, plant, or microbe whose DNA has been altered using genetic engineering techniques. It was concluded that Genetically Modified Food Crops are no more risky than those Genetically Modified by conventional methods and that these Genetically Modified Crops might contribute towards reducing the amount of malnourished people around the world. The future of Genetically Modified Crops in India will depend on those varieties which can address the country's three pressing needs of improving farm efficiency, sustainability and food security.

# PROTECTION AND SUSTENANCE OF ENDANGERED ANIMALS

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfillment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B28-A. MUTHU MATHI**

**2022B42-R.VIRGIN**


**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

**BONAFIDE CERTIFICATE**

This is to certify that this project entitled "PROTECTION AND SUSTENANCE OF ENDANGERED ANIMALS" is a bonafide record of the project work done by 2022B28-A.Muthu Mathi,2022B42-R.Virgin in partial fulfillment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

Date: 10.08.2023

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled **"Protection and sustenance of endangered animals"** is a project report of the original work done by us. This project work is submitted to **Fatima College (Autonomous)**, affiliated to **Madurai Kamaraj University** in partial fulfilment of the Degree of **Bachelor of Science in Computer Science** during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

A. Muthu Mathi

Place: Madurai
Date: 10.08.2023

2022B28-A.Muthu Mathi

R. Virgin

2022B42-R.Virgin

# PROTECTION AND SUSTENANCE OF ENDANGERED ANIMALS


## ABSTRACT:

An endangered species is a population of organisms which is at risk of becoming extinct because it is either few in numbers, or threatened by changing environmental or predation parameters. The first criterion to conserve the biodiversity of the planet is to take into consideration the reasons why so many species are becoming endangered. 'Habitat loss is the most widespread cause of species endangerment in the U.S., affecting 85% of imperiled species'. When an animal's ecosystem is not maintained, they lose their home and are either forced to adapt to new surroundings or perish. Pollution is another factor that causes many species to become endangered. Also, over-exploitation, disease and climate change have led to the endangerment of several species. An endangered species is defined as a population of an organism that is at the danger of becoming extinct because of several reasons. Endangered species in India include large varieties of rare species of flora and fauna. Indian wildlife that comprises numerous species of birds, animals, mammals, etc. is well famous for being one of the richest in the world. The Indian wildlife also contains several endangered species that are living critically on the verge of extinction.

# Reasons for acid rain and their preventive measures

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B29- N. S.Mythili**

**2022B35- M.Priyadharshini Vinnarasi**


**Project on Environmental Studies**

**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18

Nov – 2023

**FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18**

**DEPARTMENT OF COMPUTER SCIENCE**

## BONAFIDE CERTIFICATE

This is to certify that this project entitled " **Reasons for acid rain and their preventive measures** " is a bonafide record of the project work done by **2022B29-N.S.Mythili, 2022B35-M.Priyadharshini vinnarasi** in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE.** Itis based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

Date: 10.08.2023

**Staff Incharge**

## DECLARATION

We hereby declare that the project entitled " **Reasons for acid rain and thier preventive measures** " is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

N.S. Mythili

Place:Madurai

2022B39 - N.S.Mythili

Date:14.09.2023

M. Priyadharshini Vinnarasi

2022B35 - M.Priyadharshini Vinnarasi

# REASONS FOR ACID RAIN AND THEIR PREVENTIVE MEASURES


## ABSTRACT

Acid rain is one of the prominent environment severe threats for the last hundred years.

The activities of implementation of Clean Air Interstate Rule (CAIR), Acid Rain Program(ARP),

and NOx Budget Training Program (NBP) have led to a significant reduction in the SO2, Nox

emission and deposition of acid in the environment. The US EPA have implemented the cross staterule and litigation (CSAPR) for 2011, reduces the near boundary activities of releases between USA and Canada. The article summarizes the problem in various environmental aspects and review the progress report of US EPA (2013).



**keyword :** Acid rain, acidification, acid deposition, causes, remedies, problems, effects of acid rain.

# DAMAGES CAUSED BY CIGARETTE BUTTS AND THEIR REMEDIES

A Project work submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the requirement for the Award of the Degree of Bachelor of Science in Computer Science.


Submitted by

**2022B30- R.NANDHINI**

**2022B34- R.PRIYA DHARSHINI**


**Project on Environmental Studies**


**DEPARTMENT OF COMPUTER SCIENCE**

FATIMA COLLEGE (AUTONOMOUS)

Re- Accredited with A++ Grade by NAAC (Cycle IV)

Mary Land, Madurai – 18


Nov – 2023

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18

DEPARTMENT OF COMPUTER SCIENCE

## BONAFIDE CERTIFICATE

This is to certify that this project entitled "DAMAGES CAUSED BY CIGARETTE BUTTS AND THEIR REMEDIES" is a bonafide record of the project work done by 2022B30-R.NANDHINI 2022B34-R.PRIYA DHARSHINI in partial fulfilment of the requirement for the Award of the Degree of **BACHELOR OF SCIENCE** in **COMPUTER SCIENCE**. It is based on the result of studies carried out by the above mentioned students. This project is not submitted elsewhere for any other degree.

Place: Madurai

Date: 10.08.2023

Staff Incharge

## DECLARATION

We hereby declare that the project entitled "DAMAGES CAUSED BY CIGARETTE BUTTS AND THEIR REMEDIES" is a project report of the original work done by us. This project work is submitted to Fatima College (Autonomous), affiliated to Madurai Kamaraj University in partial fulfilment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

We declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any other University or College.

(Signature)
R. Nandhini
2022B30-R.NANDHINI
R. Priya dharshini
2022B34-R.PRIYA DHARSHINI

Place: Madurai

Date: 10.08.2023

## ABSTRACT

Cigarette butts are the most common contribute to plastic pollution. They are made of cellulose acetate ,a manufactured plastic material, and contain toxic chemicals

Cigarette butts usage increased wisely.

Cigarette user didn't dispose properly. They put in grounds.

The kind of human activities makes environmental effect. It produced many problems like pollution , diseases etc...

Cigarette butts is smaller toxic but it makes enormous effect.

We discussed about cigarette butts and it's nature.

How will the butts are affect the people's health and environment .

Cigarette butts will not fully stop but we have many remedial ways to decrease the usage of cigarette butts.

Like proposed laws, recycle.

Many of peoples doing the cigarette butts into useful and harmless products these also discussed.