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Foundation Certificate for Higher Education

Module: DOC 333 Introduction to Programming Principles

Module Leader: Mr. Sudarshan Welihinda

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Student ID: 20231264

Student Name: Ranuga Disansa Belpa Gamage

Student Email: [ranuga.20231264@iit.ac.lk](mailto:ranuga.20231264@iit.ac.lk)

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Table of Contents

[Abstract 1](#_Toc148672682)

[Acknowledgement 2](#_Toc148672683)

[Introduction to Pollution 4](#_Toc148672684)

[Forms of Pollution 5](#_Toc148672685)

[Air Pollution 6](#_Toc148672686)

[Water contamination 7](#_Toc148672687)

[Soil degradation 8](#_Toc148672688)

[Recommendation 9](#_Toc148672689)

[Conclusion 10](#_Toc148672690)

[Sources 10](#_Toc148672691)

Table of Figures

[Figure 1 0](file:///D:\University\IIT\Practical\Pollution.docx#_Toc148672442)

[Figure 2 6](file:///D:\University\IIT\Practical\Pollution.docx#_Toc148672443)

[Figure 3 7](file:///D:\University\IIT\Practical\Pollution.docx#_Toc148672444)

[Figure 4 8](file:///D:\University\IIT\Practical\Pollution.docx#_Toc148672445)

[Figure 5 9](file:///D:\University\IIT\Practical\Pollution.docx#_Toc148672446)

# Introduction to Pollution

Pollution is the harmful effects of the addition of unwanted pollutants to the environments and ecosystems in turn harming humans, animals, and plants. The major source of pollution is manmade waste.

Pollution is more dangerous due to how quiet and forceful everything from fabric to power generation produces pollution in some amount of way.

Pollution can be in many forms such as air pollutants, water contaminants, soil degradation, and more.

Pollution affects every part of the world not leaving a corner clean.

To reduce and try and control pollution production we must think about the vast number of industries that are using and producing pollution which is a majority of the world in turn the control for pollution will not come easy and it will require a lot of support from communities as well as governments.

In the upcoming chapters, we will go into the effects and causes of the type of pollution there is.

This report is a call to start a collaborative endeavour of all humans to a cleaner and safer world for all. Pollution is a sad reality that we are facing, and we must work together to uncover the truths and confront the challenges rather than ignoring them.

# Forms of Pollution

Understanding the distribution of pollution release methods is crucial. It enables us to identify ways to prevent and reduce pollution production.

We can gain useful insights into the sources/industries that produce pollution, and with that knowledge, we can plan to develop targets for preventing pollution production.

We can find out patterns or trends which can in turn create policies and determine the most effective approaches for interventions to reduce pollution.

## Air Pollution

Contamination of the indoor and outdoor environment by chemical, physical or biological agents that modify the natural characteristics of the atmosphere. Which is closely related to the climate and ecosystems.

Common sources are motor vehicles, combustion reactions and forest fires.

The major released dangerous chemicals are carbon monoxide, ozone, nitrogen dioxide and sulfur dioxide. Which can cause respiratory or other diseases



Figure

## Water contamination

Contamination of water sources by substances which make water unusable for human use.

Kills more people with any form of violence combined with diseases such as cholera, diarrhea, dysentery, hepatitis, typhoid and polio.

It is contaminated by Fertilizers, manufacturing operations, wildlife and sewer overflows as well as air pollutants that go into lakes and land pollution which seeps into underground streams and then into the ocean.



Figure

## Soil degradation

An unthought-out part of the environment is the solid ground we walk upon which is an extremely important part of the environment.

Soil degradation reduces soil fertility, structural conditions, and acidity.

Due to the strong relationship between soil health and food security, 33% of the world has low food security.

Caused by improper use or poor management, usually for agricultural, industrial or urban purposes.



Figure

# Recommendation

There are 3 aspects to the methods by which we can impact the spread of pollution and in turn its side effects. The 3 aspects are regulations, communities, and industrial adaptations.

Regulations are extremely required due to being a way of enforcing certain standards and in turn, it is a must and a requirement that must be followed, otherwise with extreme amounts of backlash and consequences, in turn, people/companies will comply and in turn help with the increasing pollution production.

Communities are the general collectives of people, the people who are in communities which may be anything can promote reducing pollution and using environmentally friendly objects in the members day to day life.

Industrial adaptations are an extremely important aspect due to them being highly correlated with the economy and without industrial adaptations, there will be problems in the economy in turn the change/regulations take a backseat for a while.



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# Conclusion

We are at a standstill with pollution, and we must act now and now itself, taking more time and waiting won’t help in any way. All of us as humans must work together and step forward. The number of innocent lives that are put in danger is unbelievable and we must change whatever we can now.

# Sources

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