



KARNATAKA STATE OPEN UNIVERSITY

Mukthagangotri, Mysore – 570 006

Department of Studies and Research in Environmental Science

Email: jnuchandu@gmail.com

Date: 18.04.2022

Assignments

First Semester

M.Sc. in Environmental Science

(2021-22 July and January cycle)

Instructions:

- The assignments consist of four questions in each course and attempt all the questions.
- There will be compulsory Field visit during personal contact program (Carries 5 marks)
- The assignments should be handwritten
- Use the cover page given at the end as front sheet for all Courses.
- Send your assignments to ‘The Chairman, DOS&R in Environmental Science, Karnataka State Open University, Mukthagangotri, Mysuru – 570006’ on or before **30-06-2022**.

MESDSC-1.1 Fundamentals of Environmental Science

1. Discuss how evolution of environment took place.
2. Explain the internal structure of Earth with diagram explain the components of each layer.
3. Describe the hydrological cycle or water cycle with neat diagram.
4. What are biomes? Briefly explain their types.

MESDSC-1.2: Environmental Chemistry

1. What are acid-base reactions? Explain with examples.
2. With the aid of a neat figure, explain your understanding of the nitrogen cycle.
3. Explain the properties of colloids with reference to Brownian movement.
4. What is Gas-Chromatography? When do you recommend the usage of GC in environmental monitoring? Discuss.

MESDSE-1.4 Environmental Geology

1. Describe the impacts of earth's rotation and revolution on the globe as a whole.
2. What is a soil profile? With neat sketch, explain each layer.
3. Describe the role of Government agencies in Disaster Management.
4. Explain the types of Isotopes and their applications in Environmental Geology.

MESDSE-1.5 Surface and Ground Water Hydrology

1. Give a brief account of Occurrence of ground water.
2. Discuss about water consumption in India.
3. Explain the causes of ground water depletion and methods of ground water recharge.
4. Describe the act is to restore and maintain the chemical, physical and biological integrating of water

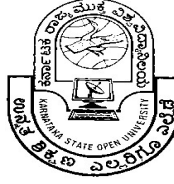
MESDSE-1.6: Environmental Microbiology

1. Explain the different roles played by soil microorganisms. MESDSE-1.7: Environmental Toxicology.
2. Explain the role of microorganisms as the bioindicators of water pollution.
3. Give an account of algal toxins and the syndromes caused by these toxins.
4. Write a note on biopesticides and biofertilizers.

MESDSE-1.7: Environmental Toxicology

1. Illustrate the scope, historic and current need for toxicology
2. Describe the various route used by the chemical to enter organism
3. Define the Bioaccumulation and bio-concentration. Briefly explain them with examples.
4. Describe the sources and health effects of heavy metals in the environment.

KARNATAKA STATE



OPEN UNIVERSITY

Department of Studies and Research Environmental Science

Mukthagangotri, Mysore – 570 006

FIRST SEMESTER, M.Sc.

(2021-22 July Cycle)

ASSIGNMENT

COURSE CODE AND TITLE:

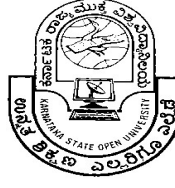
Name of the candidate	
Roll Number	
Date of Submission	

For Office Use only

Marks Obtained	
-----------------------	--

Signature of The Evaluator	
-----------------------------------	--

KARNATAKA STATE



OPEN UNIVERSITY

Department of Studies and Research Environmental Science

Mukthagangotri, Mysore – 570 006

FIRST SEMESTER, M.Sc.

(2021-22 January Cycle)

ASSIGNMENT

COURSE CODE AND TITLE:

Name of the candidate	
Roll Number	
Date of Submission	

For Office Use only

Marks Obtained	
-----------------------	--

Signature of The Evaluator	
-----------------------------------	--