

Multidisciplinary nature of Environmental Studies



Ms. Pratiksha Jayaswal
Assistant Professor
Faculty of Pharmaceutical Sciences,
Rama University, KANPUR (U.P.)

Introduction

- The term environment is derived from french word 'ENVIRON' which means encircle .
- So in other words everything that affects living organism is called as environment .

Environmental science is called as Multidisciplinary as it brings about an interaction between our natural world (air, water, soil, and material) and living organism .

Environmental study is an interdisciplinary study that utilizes information from physical science and social science .

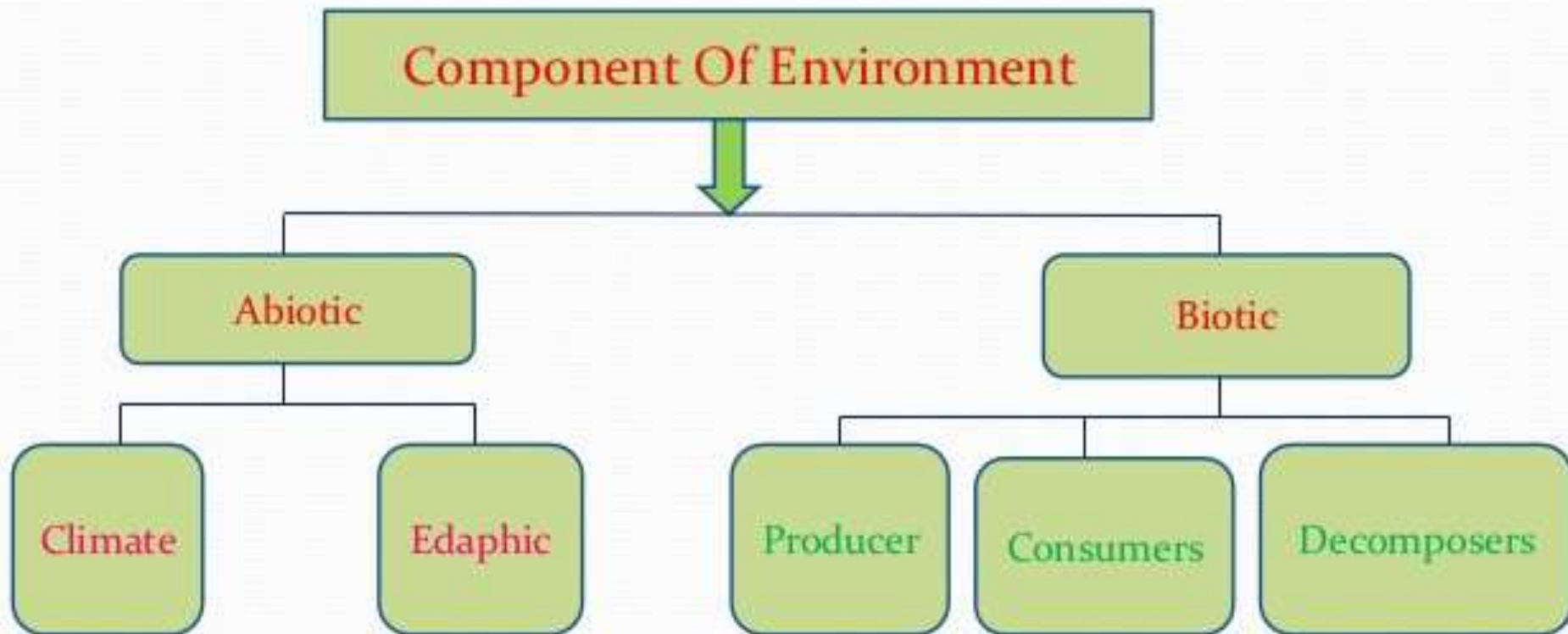


Fig.1: Components of Environment

Multidisciplinary Nature of Environmental Studies



- The study of environmental components is multidisciplinary in nature. Since it includes all disciplinary such as science, humanities, commerce, meteorology, climatology, geography and other disciplines.
- Environmental studies is a multidisciplinary programme created to promote the study of our natural surrounding.

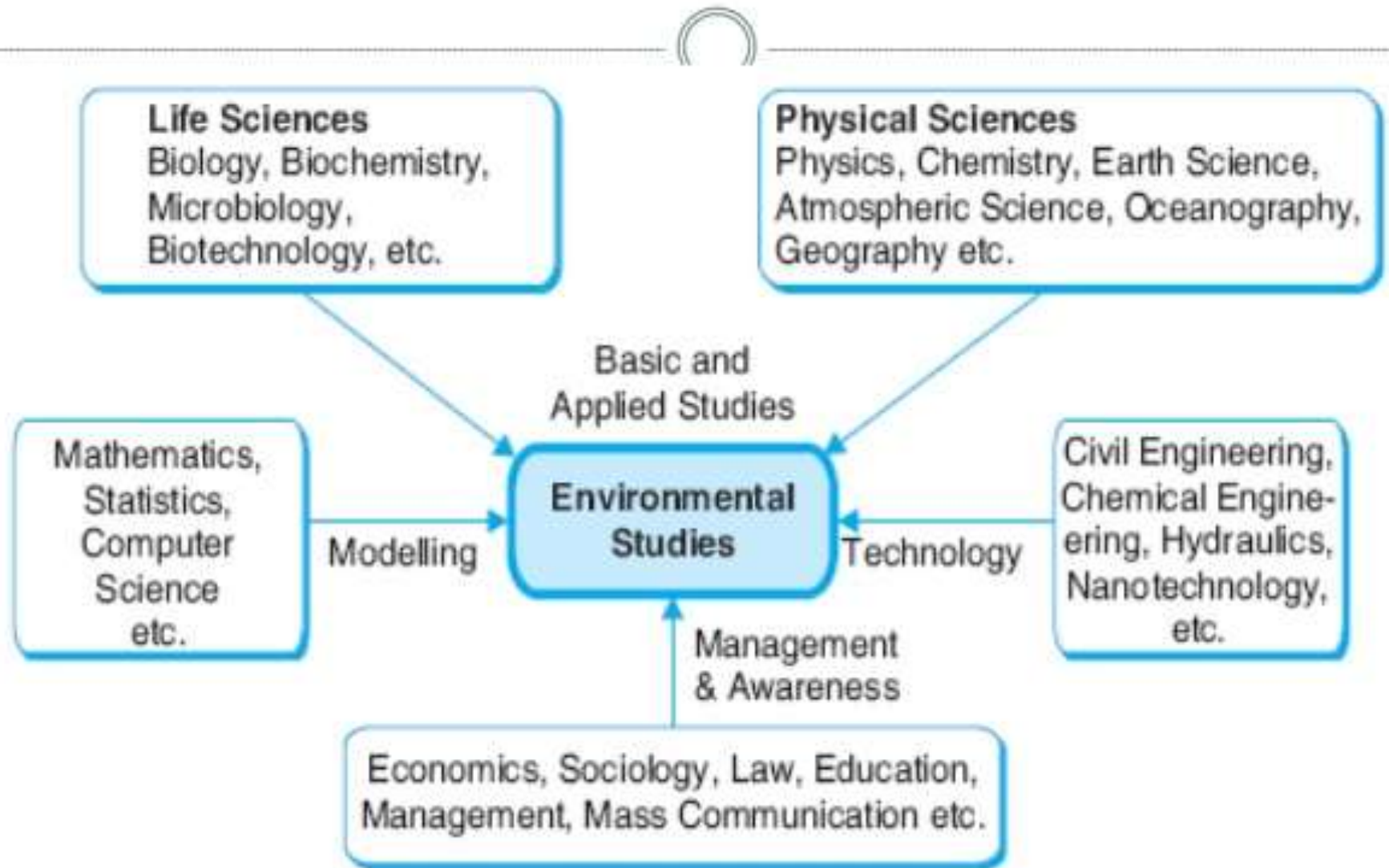


Fig 1.2 Multidisciplinary nature of environmental studies.

OBJECTIVES OF ENVIRONMENTAL STUDIES



- ❑ Creating the awareness about environmental problems in the students.
- ❑ Giving basic knowledge about the environment and its related problems to the students.
- ❑ Developing an attitude of concern for the environment amongst the students.
- ❑ Motivating students to participate in environment protection and environment improvement.
- ❑ Acquiring skills to help the concerned individuals in identifying and solving environmental problems.

Scope of Environmental Science

- Conservation of nature and natural resources .
- Conservation/ protection of biological diversity .
- Control of environmental and human pollution.
- Social issues in relation to development and environment .
- Development of non- polluting renewable energy system and provide new dimension to nature's security .

IMPORTANCE OF ENVIRONMENTAL STUDIES



- 1) Environmental studies helps maintain ecological balance by providing a basic operating knowledge of environmental system and processes.
- 2) It gives information regarding the changes that takes place due to anthropogenic factors and helps gain skills of analysing various environmental system and the effect of human activities on them.
- 3) Environmental studies help to achieve sustainable development and understand the relationship between development and the environment.
- 4) This discipline helps to educate people regarding their duties towards environmental protection.



- 5) Environment is one subject that is actually global in nature.
- 6) Environmental study deals with the analysis of the processes in water, air, land, soil, and organism which leads to pollution (or) environment degradation.
- 7) It also deals with the most important issues like safe and clean drinking water, hygienic living conditions, clean and fresh air, healthy food for man and for development.
- 8) The discipline provides us with basic knowledge of the environment and various environmental issues. It examines the scientific basis for environmental and social concerns about our present energy needs, global climate changes, toxic emission and waste disposal.



- 9) It also provide knowledge about the development and utilisation of energy resources and the role of public policy there in.
- 10) Environmental law, business administration and environmental engineering are emerging as new career opportunities for environment protection and management.



- 11) Environmental studies also aims to protect bio diversity growth in human population and the resulting increase in material consumption and technological development have increased the rate and scale of degradation of the environment.
- 12) The concepts from environmental studies can be applied to the study of agriculture and the design of sustainable production system.
- 13) With the pollution control laws becoming more strengthen, are finding it difficult to dispose off the produced wastes.