

Introduction to

Environmental Studies and Disaster Management

According to the ICAR 5th Dean Committee's Syllabus

Introduction to

Environmental Studies and Disaster Management

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Preface

It is indisputable that environmental studies are important. A cornerstone to humanity's future is the requirement for sustainable development. Our environment's deterioration is connected to persistent challenges with pollution, deforestation, solid waste management, economic productivity, and both national and ecological security. Everyone is now aware of the growing concerns about the environment due to factors such as over utilization of natural resources, ozone layer depletion, global warming and a significant loss of biodiversity. It is obvious that no person on the planet can afford to be uninformed about environmental issues. The healthcare industry now includes environmental management. It is now critically important to manage environmental risks and avert potential calamities. Human beings have been interested in ecology since the beginning of civilization. It is now even more critical than ever before for mankind as a whole to have a clear understanding of environmental concerns and to follow sustainable development practices. Environmental studies and disaster management are two interconnected fields that focus on addressing environmental issues and preparing for and responding to natural and man-made disasters. Disaster management is the discipline that pertains to the preparation for disaster before it occurs, response to disaster and support and reconstruction of society after the occurrence of natural and man-made disasters. By studying disaster risk reduction and management, we can learn how to identify and assess potential hazards and vulnerabilities; develop strategies to reduce the risk of disasters.

The present book is divided into two parts. The first part of the book covers environmental studies, covering the multidisciplinary subject, natural resources, ecosystems, biodiversity and its conservation, environmental pollution and sustainable development. In the second part disaster management have been covered with emphasis on - introduction to disasters and disaster management. The book is structured into various chapters and primarily for

the graduate, post graduate students, professionals and the researchers. This book will have wide acceptability due to wide range coverage of contents which is one of the compulsory courses at undergraduate and postgraduate level in all State Universities, Central Universities and Agricultural Universities for all UGC approved program. The authors have consulted several books, research papers and reports in designing, organizing and preparing the script of this book. In this book, attempt has been made to bring together chapters from different authors and highlight the current status, opportunities and challenges of environmental sciences and disaster management in the light of environmental securities.

I wish to express my deep sense of gratitude to those who helped directly or indirectly during the preparation of the manuscript of this book. I am much thankful to our co-author Dr. Hemant Kumar, who helped continuously in editing this book. The authors hope that students in the agricultural stream who want to focus their careers on protecting environment and boosting sustainable agricultural productivity will find great benefit from this book.

– **Dr. M.K. Tripathi**

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