

ENVIRONMENTAL STUDIES

DCA-112

COURSE DESIGN, PREPARATION AND REVIEW TEAM

Prof. T.K. Jain
Director,
CDOE SGVU Jaipur

Dr. Ankur Jain,
Director,
CIQA, SGVU Jaipur

Prof. P.K. Sharama
Rtd. Professor
VMOU Kota

Ms. Shikha Srivastava,
Assistant Professor,
Dept. of Computer Applications, SGVU

Dr. Ajay Vardhan
Regional Director
IGNOU Aligarh(UP)

Dr. Kriti Shrivastav*
Assistant Professor
CIQA SGVU Jaipur

Dr. Aman Sharma,
Assistant Professor,
CDOE, SGVU

Ms. Isha Sharma,
Assistant Professor,
Dept. of Computer Applications, SGVU

Dr. Ranjan Upadhyaya, Professor,
Department of Management Studies,
Vivekananda Global University, Jaipur

Ms. Sonika Katta,
Assistant Professor,
Dept. of Computer Applications, SGVU

Dr. Vijay Sharma, HOD, Centre for Rural
Empowerment and Development,
Government Engineering College, Bikaner

Mr. Satyanand Gora,
Assistant Professor,
Dept. of Computer Applications, SGVU

Dr. Vishal Goar
Dean Research
Bikaner Technical University, Bikaner .

Dr. Lata Suresh,
Director, Indian Institute of Corporate
Affairs, (Ministry of Corporate Affairs)
Gurugram

Program Coordinator

Dr. Anil Pal*,
Associate Professor
CDOE, SGVU Jaipur

Course Coordinator and editor

Dr. Sohit Agarwal ,
Associate Professor,
CDOE, SGVU, Jaipur

Acknowledgement : The persons marked with (*) are the authors

PRINT PRODUCTION

Mahendra Sharma
Assistant Registrar
SGVU Jaipur

Published in: November, 2024

ISBN (Awaited)

©SGVU. All rights reserved. No part of this work may be reproduced in any form, by mimeograph or any other means, without permission in writing from the SGVU.

Published by:

S. B. Prakashan Pvt. Ltd.

WZ-6, Lajwanti Garden, New Delhi: 110046 Tel.: (011) 28520627 | Ph.: 9625993408

Email: info@sbprakashan.com | Web.: www.sbprakashan.com

BLOCK 1 INTRODUCTION TO ENVIRONMENTAL STUDIES	1
<hr/>	
BLOCK 2 NATURAL RESOURCES	51
<hr/>	
BLOCK 3 ENVIRONMENTAL POLLUTION	107
<hr/>	
BLOCK 4 ENVIRONMENTAL PROTECTION AND CONSERVATION	162
<hr/>	
BLOCK 5 CLIMATE CHANGE AND GLOBAL ENVIRONMENTAL ISSUES	218

Learning Map

Course Credit- 4

Content	Course Credit	Page No
BLOCK 1 INTRODUCTION TO ENVIRONMENTAL STUDIES	0.6	1
Unit 1: Definition, Scope, and Importance of Environmental Studies		2
Unit 2: Ecosystems and their Components		18
Unit 3: Types of Ecosystems and Energy Flow		34
BLOCK 2 NATURAL RESOURCES	0.6	51
Unit 4: Types of Natural Resources (Renewable and Non-Renewable)		52
Unit 5: Resource Depletion and Conservation Strategies		68
Unit 6: Sustainable Management of Natural Resources		87
BLOCK 3 ENVIRONMENTAL POLLUTION	0.6	107
Unit 7: Air, Water, and Soil Pollution		108
Unit 8: Causes, Effects, and Control of Pollution		128
Unit 9: Waste Management and Recycling		145
BLOCK 4 ENVIRONMENTAL PROTECTION AND CONSERVATION	0.6	162
Unit 10: Biodiversity and Conservation		163
Unit 11: Environmental Legislation and Policies		181
Unit 12: Role of NGOs and International Organizations in Environmental Protection		199
BLOCK 5 CLIMATE CHANGE AND GLOBAL ENVIRONMENTAL ISSUES	0.6	218
Unit 13: Global Warming and Climate Change		219
Unit 14: Environmental Issues and Sustainable Development Goals (SDGs)		237
Unit 15: Green Technologies and Renewable Energy Solutions		255

Prior Learning

Basic knowledge of natural sciences (biology, chemistry, physics) and an understanding of societal issues and global concerns would be helpful. However, no specific prior learning is required, as the course is designed to be accessible to all students interested in gaining a deeper understanding of the environment and its challenges.