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 - Brand Development
 - Event Management
 - Taxation
 - Auditing
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Chapter 5

Phytomonitoring and Mitigation of Air Pollution by Plants



Nitesh Joshi, Ambika Joshi, and Bharati Bist

Abstract The urban environment is degrading globally at a more rapid pace than seen in the last few decades. Measures are taken in order to save the environment from rapid diffusing atmospheric pollution; however, the approach seems to be too slow either due to policies by the respective governments or lack of conviction. Air pollution monitoring is the initial step toward controlling the decay of bio-sustainable air. There are various methods to monitor air quality and its components using instrumental and chemical methods. These methods prove to be expensive and do not reflect the impact on living beings. Plants are stationary; hence, they participate and indicate the changes occurring in an environment. Several studies are done globally emphasizing the role of locally available vegetation as phytomonitor. In order to do so, various morphological, visual, and biochemical parameters are employed. The concept is based on the fact that different plant species respond differently to ambient air which can be used to quantify pollution. Different plants species also react in a varied way to different air pollutants. The pattern of air pollution also differs within and between the countries. That plants act as sinks of pollution is a well-known fact. Several researchers have enormously explained the biochemical pathways of air pollutants within the plants. The current work explores the practical case studies of phytomonitoring and the function of plants in mitigating air pollution. Plants from different locations around the industrial area were studied for their morphological and biochemical changes due to air pollution. Studies carried out to know the dust-capturing efficiencies of plants are discussed. The role of plants in mitigating airborne metals, either on the surface or as accumulators, is enumerated. For development of greenbelt, several tree species are also suggested here based on their resistance to air pollutants.

Keywords Air pollution · Phytomonitoring · Greenbelts · Biomonitors · Dust load · Dust chamber studies · Air Pollution Tolerance Index

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ECONOMIC AND SOCIAL ISSUES OF CALL CENTRE EMPLOYEES IN INDIA: A CASE OF MUMBAI CITY

Prof. Dr. Paul Raj P.

*Ph. D. in Economics. M. A- Economics., MBA- Education Management &
Dip. in Higher Education.*



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IN SOCIOLOGY

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SEMESTER IV
EMERGING FIELDS IN SOCIOLOGY
SYLLABUS

Course Rationale:

- To introduce students to the relevance and varied possibilities for future studies in sociology.
- It make's students aware about the new vibrant fields in sociology.
- To provide students with an in-depth understanding of struggle and survival in today's competitive scenario.

UNIT I - JOURNALISM

- a. Journalism Studies: An Overview
- b. Journalists as Gatekeepers- Ethics in Journalism
- c. Women Journalists

UNIT II - WOMEN ENTREPRENEURSHIP

- a. Meaning of Entrepreneurship, Role and Attributes of an Entrepreneur
- b. Women in different fields as entrepreneurs at the grass root level:
Business, Food
- c. Challenges and Opportunities

UNIT III- URBAN GOVERNANCE

- a. Plan and Growth of Smart Cities-Critique
Case Study (Kochi) Kerala, (Jaipur) Rajasthan
- b. Lack of availability of Open Spaces
- c. Street Vendors and Hawkers- The Street Vendors Act 2014

UNIT IV - GERIATRIC CARE

- a. Phenomenon of Population Ageing
- b. Old Age Home, Senior Citizens Association, Day Care Center
- c. Geriatric Care: Government and non-governmental initiatives in India

Reading List:

1. Bhaskaran, N. (Ed). (2009). Vision Juhu-Expanding Public Spaces in Mumbai. Synergy Creations. Mumbai
2. Chakraborti, Rajgopal D. (2004). The Greying of India Population Ageing in the context of Asia. Sage publications. New Delhi
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1. Challenges and Opportunities for Women Entrepreneurship in India under Globalization.- OSR Journal of Business and Management Vol 5, Issue 2 Sept-Oct 2012, PP29-35.
2. Role of Women Entrepreneurship in Indian Economy, International Journal of Science Technology and Management Vol.No.03, March 2016.
2. Social Scientist Volume 44 May –June 2016





S.Y.B.A.

SEMESTER - III (CBCS)

**SOCIOLOGY PAPER - II
INDIAN SOCIETY :
STRUCTURE AND CHANGE**

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**SYBA SYLLABUS
SOCIOLOGY PAPER II
SEMESTER III
INDIAN SOCIETY: STRUCTURE AND CHANGE**

Course Rationale:

- To Introduce Students to the Indian Sociological Traditions.
- To Familiarise Students with the Research traditions in Indian Sociology
- To Acquaint Students with the Emerging Issues in Indian society

Unit I : Indian Sociological Perspectives 12 Lectures

- a. Indology and Structure--functionalism (G. S. Ghurye, M. N. Srinivas)
- b. Dialectical approach to Sociology (A. R. Desai, D.P. Mukerjee)
- c. Non- Brahmanical Approach (Dr. B. R. Ambedkar, Mahatma Phule)

Unit II : Contemporary Sociologists (Selected readings) 12 Lectures

- a. Sharmila Rege (Gender)
- b. Leela Dube (Kinship)
- c. T. K. Oommen (Religion)

Unit III : Contemporary Challenges in Indian Society 12 Lectures

- a. Strategies of caste mobilisation
- b. Resurgence of Ethnic identities
- c. Gender and Marginalization

Unit IV : Socio– Cultural Landscape of Maharashtra 09 Lectures

- a. Regional diversity and communities in Maharashtra
- b. Tourism in Maharashtra – Economy and Society
- c. Food Culture intertwined with different cultural identities


Reading List:

1. Ambedkar, B. R. (2007). “Annihilation of Caste” Critical Quest, New Delhi
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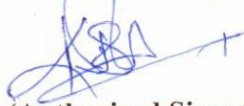
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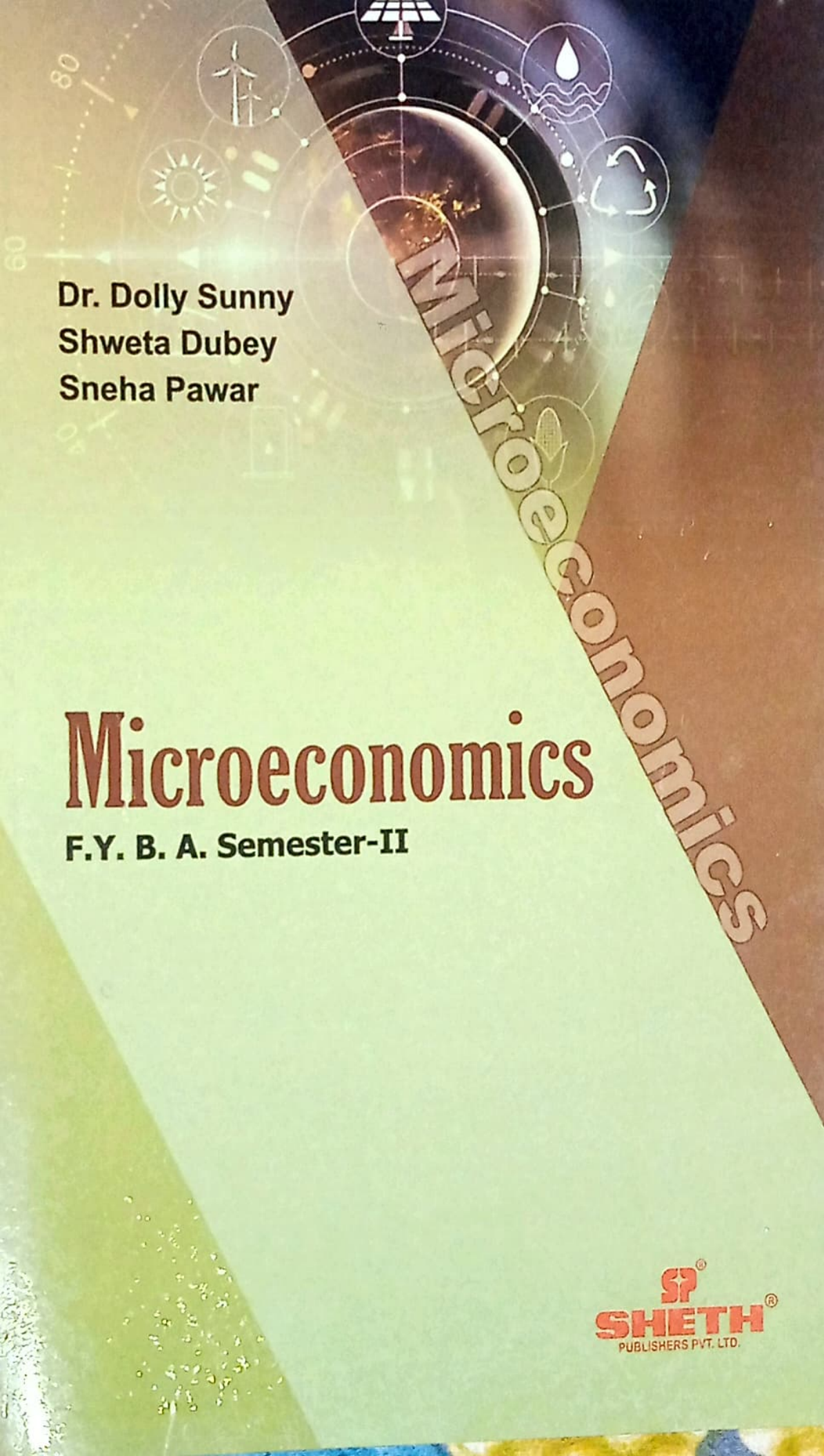
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