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Sustainable Agriculture: An Update



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Prof. Saba Siddiqui

Dr. Deepti Srivastava

SUSTAINABLE AGRICULTURE: AN UPDATE

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TABLE OF CONTENTS

S. NO.	TOPIC	PAGE NO.
1.	Introduction to Sustainable Agriculture: Economic and Environmental Impact <i>Ruqaiya Bano</i>	1 - 18
2.	Propagation and Nursery Management for Sustainability <i>Muzeev Ahmad</i>	19 - 28
3.	Role of Biofertilizer in Sustainable Agriculture <i>Dr Pallavi Srivastava</i>	30 - 42
4.	Integrated Nutrient Management for Sustainable Agriculture <i>Khalid Habib and P. Smriti Rao</i>	43 - 55
5.	Integrated Pest Management for Sustainable Agriculture <i>Kalpana Bisht and Sunil Kumar Yadav</i>	56 - 75
6.	Organic farming of field crops for sustainability <i>Dr Abhineet</i>	76 - 137
7.	Organic farming of Horticultural crops for sustainability <i>Sanket Kumar</i>	138 - 171
8.	Precision Agriculture: An update <i>Ambreesh Singh Yadav</i>	172 - 190
9.	Role of Agroforestry for Sustainability <i>Dr Ayush Bhushan</i>	191 - 254

10. The role of Extension Education in Sustainable Agriculture 255 - 269
Akanksha Singh and Sunil Kumar
11. Soil microbial diversity and agricultural sustainability 270 - 288
Faria Fatima, Saba Siddiqui
12. Sustainable Agriculture and Climate Change 289 - 304
Nitish Kumar
13. Innovations and Future Directions in Sustainable Agriculture 305 - 233
Sunil Kumar, Mustafa Hussain

CHAPTER -6

Organic farming of Field crops for sustainability/Sustainable Field Crop Production through Organic Farming Practice

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Introduction

Sustainable field crop production is increasingly associated with organic farming methods, which aim to maintain high yields while preserving environmental quality and social well-being. Organic farming eschews synthetic fertilizers and pesticides, instead leveraging natural processes, such as nutrient cycling, biological pest control, and biodiversity, to support crops. This approach has gained global traction as a response to the negative impacts of intensive conventional agriculture, including soil degradation, water contamination, biodiversity loss, and greenhouse gas emissions. By focusing on soil health and ecological balance, organic farming aligns with sustainable agriculture goals and climate-smart practices (Lori *et al.*, 2017). Consumer demand for organic products has also risen steadily owing to concerns about food safety and environmental impact, fueling the expansion of organic farmland and markets worldwide.