

Fundamentals of Agronomy

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PREFACE

Welcome to the world of agronomy, a field of study that lies at the intersection of science and agriculture. "**Fundamentals of Agronomy**" is designed to be your comprehensive guide to understanding the principles and practices that underpin successful crop production.

Agriculture has been a fundamental part of human civilization for thousands of years, and its importance has only grown as we strive to feed a growing global population. Agronomy, as a scientific discipline, plays a crucial role in optimizing crop production, managing natural resources, and ensuring sustainable agricultural practices.

This textbook is crafted to provide a solid foundation for students and practitioners alike. It covers a wide range of topics, from soil science and crop physiology to pest management and sustainable agriculture. Each chapter is carefully structured to build upon the previous one, offering a logical progression of concepts and knowledge.

As you delve into the pages of this book, you'll explore the intricate relationships between soil, water, plants, and the environment. You'll learn how to make informed decisions regarding crop selection, planting techniques, and nutrient management. Practical insights and real-world examples will help bridge the gap between theory and application.

We have aimed to create a resource that is not only informative but also engaging. The world of agronomy is dynamic and constantly evolving, and we hope that this book instills in you a sense of curiosity and a desire for lifelong learning in this field.

We extend our gratitude to the countless researchers, educators, and practitioners whose work has contributed to the knowledge compiled in this book. We also express our appreciation to the students who embark on this educational journey with us, as you are the future stewards of our agricultural landscapes.

May this exploration into the fundamentals of agronomy inspire you to contribute to the sustainable development of agriculture and make a positive impact on our planet.

Happy reading!



Dr Lalita Kumar Mohanty has successfully completed his under graduation, M Sc (Ag). and Ph D in Agronomy from Odisha University of Agriculture and Technology, Bhubaneswar. He has published several research and review papers in national and international journals. Several scientific popular articles, book chapters and technical bulletins are published by him. He is a life member of 8 professional societies His many radio and TV talks on agriculture have been broadcasted from AIR, DD & ETV. He has 25 years of experience in teaching, research and extension in agronomy. Now he is working as Scientist (Agronomy) in KVK of OUAT including more than five years as in-charge Senior Scientist and Head. He has focussed his activities in weed science, farming system and organic farming.



Mr. Vishnu Moond is an Assistant Professor of Agronomy in the Rabindranath Tagore College of Agriculture (MPUA&T-Udaipur), Kapasan, Chittorgarh, Rajasthan, with profound excellence and a meritorious academic record. Mr. Moond was born on 11th July, 1993 in Hanumangarh, Rajasthan. He has graduated in agriculture from HNB Garhwal (A Central) University, Uttarakhand, in 2014 with distinction in many subjects. He earned his M.Sc. (Ag) from SDS State Government University, Uttarakhand in the department of Agronomy in 2017 and qualified ASRB-NET Exam (2021). He has published 7 Abstracts and attend more than 22 national and international conferences, trainings and seminars and 12 research and review papers in acclaimed national and international journals along with 17 book chapters 10 popular articles in various agriculture magazines and 3 editor book's are also published by him. He has received M.Sc. Thesis Award and Best Agronomist & Best Teacher Award from recognized societies.



Ms. Suman Kashyap is a Ph.D. Scholar in Agronomy at Indira Gandhi Agriculture University, Raipur, Chhattisgarh. She has completed his B.Sc. in Agriculture from College of Agriculture and Research Station, Janjgir-Champa and M.Sc. in Agronomy from CARS Raipur, IGKV Chhattisgarh. She has qualified the ICAR-AIEEA-PhD (SRF) entrance examination for pursuing his PhD programme. She has also qualified ICAR-NET. She has participated in different training programme as well as various national seminar and conferences. She has published 4 national research paper, 1 book chapter and 4 popular articles. She has also teaching experience at the undergraduate level.

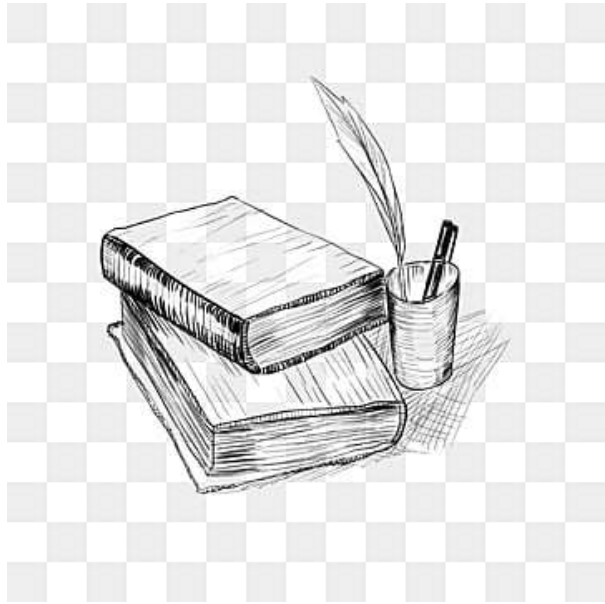


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Mr. Prashun Sachan completed his graduation and post graduation in Agronomy from C.S.AU. of Ag & Tech., Kanpur. Presently he is research scholar and Ph.D. student in the department of Agronomy at Chandra Shekher Azad University of Agriculture and Technology, Kanpur. He is having brilliant academic record. He has published many research papers/popular articles/pumphlets/leaflets in national and international journal of repute. He is author of two books in the field of agronomy and awarded as a best student at the time of post graduation.

*Dedicated to My Beloved
Parents*



Author 

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