

BASICS OF PLANT BIOLOGY



KINGDOM

PHYLUM

CLASS

ORDER

FAMILY

GENUS

SPECIES

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ISBN : 978-624-6034-03-0

First Publication : 2023 (1st Edition)

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Cover Page Design : L. M. Rifnas

Published by

University of Colombo

Institute for Agro - Technology and Rural Sciences,

Weligatta New Town, Hambantota, Sri Lanka

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uciars.cmb.ac.lk

PREFACE

Plant biology is the branch of biology that deals with studying plants. In particular, plant biologists look at the evolution, life history, structure, and function of plants. Agriculture studies has always been a fundamental area of plant biology and this book is a great resource for an introductory-level on Agricultural biology, covering most of the topics usually addressed in undergraduate level. As we step into the realm of agriculture, the significance of plant biology becomes even more profound. It is the cornerstone of our food systems, a keystone of ecological balance, and the very heart of agricultural practices.

"Plant Biology" is designed with the specific needs of undergraduate students in agriculture in mind. This book is to provide you with a solid foundation in the essential concepts of plant biology, equipping you with the knowledge and skills necessary to excel in your studies and make meaningful contributions to the world of agriculture.

This textbook spans a wide array of topics, from the fundamental principles of plant classification to the intricate processes of photosynthesis, stomata activity, plant respiration, transpiration, guttation, and pollination. This book is enriched with illustrations, diagrams, and photographs that bring these complex biological processes to life. Let these pages be your guide as you explore the wonders of plant biology and discover how it shapes the future of agriculture. Whether you're a student just starting your academic adventure or an educator guiding the next generation of agricultural leaders, I hope this book serves as a valuable resource on your path to excellence in the green world of plant biology.

N. P. Vidanapathirana
L. M. Rifnas

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