

**DETAIL OF COURSES
FOR BS (4 – YEAR) IN BOTANY**

1st Year

1st Semester

Title of the Course: Bot-301 Diversity of Plants

Credit Hours: 4 (3+1)

Specific Objectives of course:

To introduce the students to the diversity of plants and their structures and significance.

Course Outline:

Comparative study of life form, structure, reproduction and economic significance of:

- a) Viruses (RNA and DNA types) with special reference to TMV.
- b) Bacteria and Cyanobacteria (Nostoc, Anabaena, Oscillatoria) with specific reference to biofertilizers, pathogenicity and industrial importance;
- c) Algae (Chlamydomonas, Spirogyra, Chara, Vaucheria, Pinnularia, Ectocarpus, Polysiphonia)
- d) Fungi (Mucor, Penicillium, Phylactinia, Ustilago, Puccinia, Agaricus), their implication on crop production and industrial applications.
- e) Lichens (Physcia)
- f) Bryophytes
 - i. Riccia
 - ii. Anthoceros
 - iii. Funaria
- g) Pteridophytes.
 - i. Psilopsida (Psilotum)
 - ii. Lycopsida (Selaginella)
 - iii. Sphenopsida (Equisetum)
 - iv. Pteropsida (Marsilea)
- h) Gymnosperms
 - i. Cycas
 - ii. Pinus
 - iii. Ephedra
- i) Angiosperms
 - i. Monocot (Poaceae)
 - ii. Dicot (Solanaceae)

Lab Outline:

Culturing, maintenance, preservation and staining of microorganisms. Study of morphology and reproductive structures of the types mentioned in theory. Identification of various types mentioned from prepared slides and fresh collections.

Outlines Of Botany

Hussin A.Rothana

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Table of Contents Outlines Of Botany

1. Understanding the eBook Outlines Of Botany
 - The Rise of Digital Reading Outlines Of Botany
 - Advantages of eBooks Over Traditional Books
2. Identifying Outlines Of Botany
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Outlines Of Botany
 - User-Friendly Interface
4. Exploring eBook Recommendations from Outlines Of Botany
 - Personalized Recommendations
 - Outlines Of Botany User Reviews and Ratings
 - Outlines Of Botany and Bestseller Lists
5. Accessing Outlines Of Botany Free and Paid eBooks
 - Outlines Of Botany Public Domain eBooks
 - Outlines Of Botany eBook Subscription Services

- Outlines Of Botany Budget-Friendly Options
- 6. Navigating Outlines Of Botany eBook Formats
 - ePUB, PDF, MOBI, and More
 - Outlines Of Botany Compatibility with Devices
 - Outlines Of Botany Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Outlines Of Botany
 - Highlighting and Note-Taking Outlines Of Botany
 - Interactive Elements Outlines Of Botany
- 8. Staying Engaged with Outlines Of Botany
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Outlines Of Botany
- 9. Balancing eBooks and Physical Books Outlines Of Botany
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Outlines Of Botany
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Outlines Of Botany
 - Setting Reading Goals Outlines Of Botany
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Outlines Of Botany
 - Fact-Checking eBook Content of Outlines Of Botany
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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