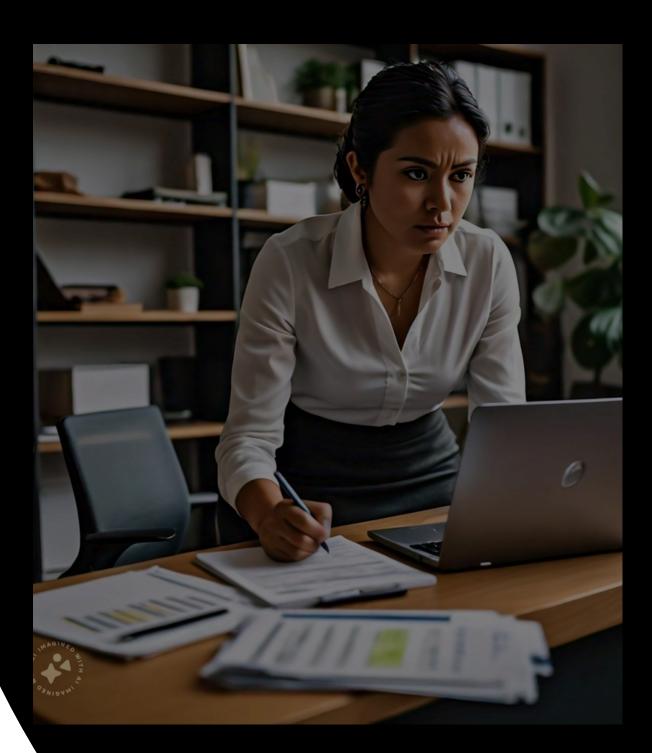






OUR MISSION:



"Our mission is to empower learners worldwide through innovative technology, personalized learning experiences, and accessible educational resources. We strive to cultivate a community where every individual can achieve their full potential, regardless of their background or circumstances."

OUR VALUES:

"To pioneer the future of education by leveraging cutting-edge technology to make learning more engaging, effective, and inclusive. We envision a world where education transcends boundaries, creating opportunities for lifelong learning and fostering a society enriched by knowledge and creativity."

Week 1: Introduction to Soil Science

- Day 1: Overview of Soil Science
 - Definition and importance of soil
 - Historical development of soil science
- Day 2: Soil Formation
 - Weathering processes
 - Soil forming factors
- Day 3: Soil Morphology
 - Soil horizons
 - Soil profile description
- Day 4: Soil Classification
 - Soil taxonomy
 - International soil classification systems
- Day 5: Field Trip/Practical Session
 - Soil sampling and profile description in the field

Week 2: Soil Physics

- Day 1: Soil Texture and Structure
 - Soil particle size distribution
 - Soil aggregates
- Day 2: Soil Density and Porosity
 - Bulk density
 - Soil porosity
- Day 3: Soil Water
 - Soil moisture content
 - Soil water potential and retention
- Day 4: Soil Temperature and Aeration
 - Factors affecting soil temperature
 - Soil air composition
- Day 5: Laboratory Session
 - Determining soil texture by feel method
 - Measuring soil moisture content

Week 3: Soil Chemistry

- Day 1: Soil Colloids and Cation Exchange
 - Types of soil colloids
 - Cation exchange capacity
- Day 2: Soil pH and Liming
 - Soil acidity and alkalinity
 - Methods of liming
- Day 3: Soil Organic Matter
 - Composition and decomposition
 - Benefits of soil organic matter
- Day 4: Soil Nutrients and Fertility
 - Essential nutrients for plant growth
 - Nutrient cycling and management
- Day 5: Laboratory Session
 - Soil pH measurement
 - Cation exchange capacity determination

- Week 4: Soil Biology
- Day 1: Soil Microorganisms
- Types of soil microorganisms
- Their roles in soil processes
- Day 2: Soil Fauna
- Earthworms and other soil fauna
- Their impact on soil structure and fertility
- Day 3: Soil Enzymes and Organic Matter Decomposition
- Role of enzymes in soil
- Decomposition process
- Day 4: Soil Health and Quality
- Indicators of soil health
- Practices to improve soil quality
- Day 5: Laboratory Session
- Identifying soil microorganisms
- Soil respiration measurement

Week 5: Soil and Water Conservation

- Day 1: Soil Erosion
 - Types and causes of soil erosion
 - Erosion control measures
- Day 2: Soil Conservation Techniques
 - Contour farming, terracing, and cover crops
- Day 3: Water Management in Soil
 - Irrigation methods
 - Drainage systems
- Day 4: Sustainable Soil Management
 - Integrated soil fertility management
 - Conservation agriculture
- Day 5: Field Trip/Practical Session
 - Observing soil conservation practices in the field

Week 6: Soil Pollution and Remediation

- Day 1: Soil Contamination Sources
 - Industrial, agricultural, and urban sources
- Day 2: Impact of Soil Pollution
 - Effects on soil health and plant growth
- Day 3: Soil Remediation Techniques
 - Physical, chemical, and biological methods
- Day 4: Phytoremediation
 - Use of plants to remediate contaminated soils
- Day 5: Laboratory Session
 - Testing for soil contaminants
 - Remediation experiment setup

Week 7: Soil Management for Crop Production

- Day 1: Soil Fertility Management
 - Fertilizer application methods
- Day 2: Soil Amendments
 - Use of compost, biochar, and other amendments
- Day 3: Precision Agriculture
 - Role of technology in soil management
- Day 4: Soil Testing and Recommendations
 - Soil testing procedures
 - Interpretation of soil test results
- Day 5: Field Trip/Practical Session
 - Visiting a precision agriculture site
 - Soil sampling and testing

Week 8: Advanced Topics and Future Trends

- Day 1: Climate Change and Soil
 - Impact of climate change on soil properties and management
- Day 2: Soil and Food Security
 - Role of soil in ensuring food security
- Day 3: Innovations in Soil Science
 - Recent advances and future trends
- Day 4: Case Studies
 - Successful soil management practices from around the world
- Day 5: Final Project Presentation
 - Students present their projects on advanced soil science topics

Our Partners Company's

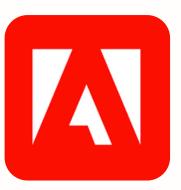


























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