



Madhesh Agricultural University, Rajbiraj

Syllabus for Lab Assistant

1. Basic Agriculture Science:

- Introduction to agriculture and its branches
- Crop cultivation techniques
- Soil science and fertility management
- Pest and disease management
- Crop harvesting and post-harvest handling

2. Agricultural Equipment and Machinery:

- Types and uses of common agricultural equipment and machinery
- Maintenance and safety procedures for agricultural machinery
- Basic troubleshooting of machinery issues

3. Laboratory Techniques:

- Principles of laboratory safety and hygiene
- Handling and storage of laboratory equipment and chemicals
- Basic laboratory techniques such as weighing, measuring, and mixing
- Use of laboratory apparatus for soil analysis, plant tissue analysis, and water quality testing

4. Plant Breeding and Genetics:

- Fundamentals of plant breeding
- Techniques for plant breeding such as hybridization and selection
- Basics of plant genetics and genetic modification

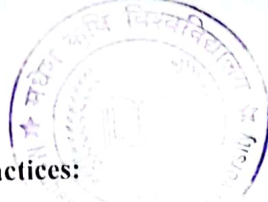
5. Agricultural Data Collection and Analysis:

- Methods for collecting and recording agricultural data
- Basic statistical analysis techniques for interpreting agricultural data
- Use of software tools for data analysis and presentation

6. Agricultural Extension and Outreach:

- Role of agricultural extension services in disseminating information to farmers
- Techniques for conducting agricultural demonstrations and workshops
- Communication skills for interacting with farmers and other stakeholders

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7. Farm Management Practices:

- Basics of farm planning and organization
- Financial management principles for agricultural enterprises
- Record-keeping and documentation practices on the farm

8. Current Trends and Developments in Agriculture:

- Emerging technologies in agriculture such as precision farming and vertical farming
- Sustainable agriculture practices
- Policies and regulations affecting the agricultural sector

9. Practical Demonstrations and Hands-on Training:

- Practical exercises related to soil testing, seed treatment, crop monitoring, etc.
- Hands-on training with agricultural equipment and machinery
- Field trips to agricultural research stations or farms for practical exposure


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