J.S. University, Shikohabad
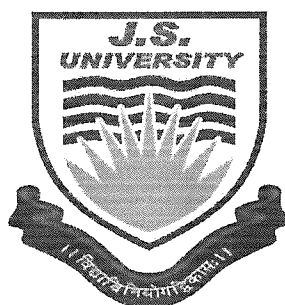
Established by UP Govt. Act No. 07 of 2015

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VALUE ADDED COURSE

Medicinal Plants and Herbal Medicine: Exploring the Healing Properties of Horticultural Crops

Faculty of Agricultural Sciences

	J.S. University, Shikohabad	Value Added Course
	Faculty of Agricultural Sciences	AGVAC-20

Medicinal Plants and Herbal Medicine: Exploring the Healing Properties of Horticultural Crops

Learning Objectives:

This course focuses on the principles and practices of medicinal plants and herbal medicine using horticultural crops. The course will cover topics such as the identification and selection of medicinal plants, plant parts used in medicine, extraction and preparation of plant-based medicines, and the therapeutic properties of horticultural crops. Additionally, the course will cover the scientific basis for the effectiveness of herbal medicine, the cultural and historical use of medicinal plants, and current trends in alternative medicine. By the end of the course, students will have the skills and knowledge needed to design and implement medicinal plant gardens and to prepare and use plant-based medicines.

Course Outcomes:

Upon completion of this course, students will be able to:

1. Understand the principles and practices of medicinal plants and herbal medicine using horticultural crops.

2. Identify and select medicinal plants for specific medicinal uses.

3. Extract and prepare plant-based medicines from horticultural crops.

4. Understand the therapeutic properties of horticultural crops and their applications in medicine.

5. Develop and implement medicinal plant gardens for personal and/or commercial use.

Duration: 8-10 weeks (depending on the pace of the student)

Intake: 60 students

Course Modules (Syllabus):

Module-1

Introduction to Medicinal plants and Herbal Medicine

- Overview of medicinal plants and herbal medicine
- Historical and cultural use of medicinal plants
- Scientific basis for the effectiveness of herbal medicine
- Current trends in alternative medicine

Module-2

Identification and Selection of Medicinal Plants

- Identification of medicinal plants
- Selection criteria for medicinal plants
- Sources of medicinal plants
- Cultivation and maintenance of medicinal plant gardens

Module-3

Plant Parts Used in Medicine

- Understanding the various plant parts used in medicine
- Methods of extraction and preparation of plant-based medicines
- Preservation and storage of plant-based medicines

Module-4

Therapeutic Properties of Horticultural Crops

- Properties and uses of horticultural crops in medicine
- Understanding the pharmacological properties of medicinal plants
- Application of horticultural crops in the prevention and treatment of diseases

Module-5

Application of Medicinal Plants and Herbal Medicine

- Developing plant-based remedies
- Understanding the ethical considerations of using medicinal plants
- Preparation and administration of plant-based medicines
- Safety and legal considerations of using medicinal plants
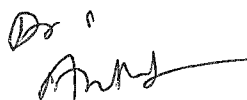
Assessment:

- Weekly quizzes and assignments
- Final project on designing and implementing a medicinal plant garden and developing a plant-based remedy.

Reference books:-

- "The Herbal Medicine-Maker's Handbook: A Home Manual" by James Green
- "Medical Herbalism: The Science Principles and Practices of Herbal Medicine" by David Hoffman
- "The Earthwise Herbal, Volume I: A Complete Guide to Old World Medicinal
- Plants" by Matthew Wood
- A Complete Medicinal Herbal: A Practice Guide to the Healing Properties of Herbs" by Penelope Ody
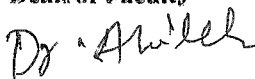- "Herbal Antibiotics: Natural Alternatives for Treating Drug Resistant Bacteria by Stephen Harrod Buhne

(Name of Faculty)   (Name of Faculty)   (Name of Faculty)

Course Coordinator   Dean of Faculty   Director General