



Organized by – Department of Botany, Shri Shivaji Science College, Amravati

1. Course Description:

Herbal medicine grows all around us!

We find medicinal plants in our backyards, gardens, nearby forests, old farm fields and even growing right up through the cracks in city sidewalks. But whether we know all about them or whether we are able to identify them easily is something debatable. Maybe the plant in our backyard is one that is highly medicinal one. These are some common things that we all know as a part of general knowledge. Along with that the second thing that comes to our mind is that plants are the only novel creatures on the earth that help to boost our immunity in a scenario like the present one that of Covid-19 pandemic. Medicinal plants have been proved to be excellent immunity boosters, and this fact has been enhancing the curiosity of people about medicinal plants over the years.

In this course we are to learn as to what constitutes a medicinal herb, how to identify one, and how different plants and plant parts are used as medicines. We will also learn about the type of soil that is suitable for growing herbs, the quantity and quality of water needed and other useful information. Detailed description of medicinal plants is provided along with their uses and methods of preparing herbal medicines. And lastly, we do focus on the most important thing that is the career opportunities in the field of Herbal Medicines and other Herbal Products.

2. Course Objectives:

1. To make the students aware of the novel properties of medicinal plants.
2. To make the students expert in identifying the medicinal plants available in their locality, irrespective of the field to which he/she belongs.
3. To learn to identify the most common and useful medicinal plants.
4. To build confidence of working with highly beneficial plants.

5. To make the people aware of the power of the ancient traditional folk medicines.
6. To understand the proper method of harvesting the plants while retaining their medicinal properties.
7. To conserve the medicinal plants for future use.
8. To assure students that the field of medicinal plants can be their career option.
9. To make the students aware of career opportunities through the dissemination of the correct knowledge of the medicinal plants.
10. To make the students understand the right use of medicinal plants for their health and wellbeing.

3. Instructional Strategies:

To make learning more effective and interesting, Video lecture with innovative techniques, Animated Videos, Daily interesting Quizzes and Assignments will be provided.

4. Instructional Material: The main approach of this course is learner-oriented and the learner is an active participant in the teaching-learning process. Most of the instructions are imparted through online and distance mode.

1. This online course mainly focuses on Self Learning Material (SLM) and they are up-gradation by eminent students.
2. Text information plays a vital role in online education. Video lectures, Animated Videos, Quizzes, Assignments that have been prepared by the department for the enhancement of understanding the course material given to the student.
3. The video lectures are uploaded on the college website and YouTube for student access.
4. Delivery of classroom-like lectures will also be available in the student portal

5. Evaluation Strategy: Daily Quizzes, Assignments and Final quiz.

6. Detailed time-wise course session plan :

Module-1
Role of Medicinal Plants in Human Life

Lectures	Topic	Speaker	
Lecture -1	Introduction and overview of the course	Pro. Bhupendra K. Dorkar	Quiz + Assignment
Lecture -2	History of Indian Folk Medicines	Mr. Avinash N. Darsimbe	Quiz + Assignment
Lecture -2	How to identify the medicinal plants by their unique features	Dr. Swati V. Pundkar	Quiz + Assignment
Lecture -3	Importance of Plants in Ayurveda : History and Current World	Dr. Tushar B. Wankhede	Quiz + Assignment
Lecture -4	Life Style Diseases and Home remedies	Dr. Rekha C. Maggirwar	Quiz + Assignment
Lecture -5	Immunity and medicinal Plants	Dr. Dinesh K. Khedkar	Quiz + Assignment
Lecture -6	Use of wild vegetables and medicinal plants by Tribal community	Dr. Ganesh B. Hedawoo	Quiz + Assignment
Lecture -7	Herbal Technology	Dr. Dilip V. Hande	Quiz + Assignment
Lecture -8	Spices as Medicine	Dr. Swati V. Pundkar	Quiz + Assignment
Lecture -9	Cultivation strategies for medicinal plants	Pro. Bhupendra K. Dorkar	Quiz + Assignment

Module-2

Medicinal Plants : Description and Medicinal uses

Lectures	Topic/ Medicinal Plant	Speaker	
Lecture – 10	<i>Moringa oleifera</i>	Pro. Bhupendra K. Dorkar	Quiz + Assignment
Lecture – 11	<i>Rauvolfia serpentina</i>	Dr. Ganesh B. Hedawoo	Quiz + Assignment
Lecture – 12	<i>Murraya koenigii</i>	Dr. Tushar B. Wankhede	Quiz + Assignment
Lecture - 13	<i>Zingiber officinale</i>	Dr. Dilip V. Hande	Quiz + Assignment
Lecture - 14	<i>Aegle marmelos</i>	Dr. Rekha C. Maggirwar	Quiz + Assignment
Lecture - 15	<i>Adhatoda vasica</i>	Dr. Swati V. Pundkar	Quiz + Assignment
Lecture - 16	<i>Gloriosa superba</i>	Mr. Avinash N. Darsimbe	Quiz + Assignment
Lecture - 17	<i>Bacopa monnieri</i>	Dr. Prashant D. Deshmukh	Quiz + Assignment
Lecture - 18	<i>Tinospora cordifolia</i>	Pro. Bhupendra K. Dorkar	Quiz + Assignment
Lecture - 19	<i>Aloe vera</i>	Dr. Ganesh B. Hedawoo	Quiz + Assignment
Lecture - 20	<i>Hibiscus rosa-sinensis</i>	Dr. Tushar B. Wankhede	Quiz +

			Assignment
Lecture - 21	<i>Chlorophytum tuberosum</i>	Dr. Dilip V. Hande	Quiz + Assignment
Lecture - 22	<i>Mentha piperita</i>	Dr. Rekha C. Maggirwar	Quiz + Assignment
Lecture - 23	<i>Vitex negundo</i>	Dr. Swati V. Pundkar	Quiz + Assignment
Lecture - 24	<i>Withania somnifera</i>	Mr. Avinash N. Darsimbe	Quiz + Assignment
Lecture - 25	<i>Hemidesmus indicus</i>	Dr. Prashant D. Deshmukh	Quiz + Assignment

Module-3

Applications and Career Opportunities

Lectures	Topic	Speaker	
Lecture - 26	Cultivation Practice of Some Medicinal Plants	Dr. Swati V. Pundkar	Quiz + Assignment
Lecture - 27	Extraction and Grading of Plant products	Dr. Dinesh K. Khedkar	Quiz + Assignment
Lecture – 28	Decoctions	Dr. Dinesh K. Khedkar	Quiz +

			Assignment
Lecture - 29	Soups	Dr. Rekha C. Maggirwar	Quiz + Assignment
Lecture - 30	Some Ayurvedic, Pharma and Herbal beauty products	Dr. Ganesh B. Hedawoo	Quiz + Assignment
Lecture - 31	Agro Based Industries and Medicinal firms – (Dabur, Patanjali etc)	Dr. Dinesh K. Khedkar	Quiz + Assignment
Lecture - 32	Funding agencies for Herbal products	Dr. Dinesh K. Khedkar	Quiz + Assignment
Lecture - 33	Case study of Medicinal plant Fields	Mr. Avinash N. Darsimbe	Quiz + Assignment
Lecture – 34	Current Issues and Research Associated with Medicinal Plants	Mr. Avinash N. Darsimbe	Quiz + Assignment
Lecture - 35	Interview of CEO of Herbal Industry	Mr. Avinash N. Darsimbe	Quiz + Assignment

7. **Duration of the course :** The duration of the course is 1 month (4 week) and day wise lectures will be uploaded on college website and You Tube also.

8. **Credits : 3**

9. Course Outline,

Module-1

Role of Medicinal Plants in Human Life

- Introduction and overview of the course
- History of Indian Folk Medicines
- How to identify the medicinal plants by their unique features
- Importance of Plants in Ayurveda: History and Current World
- Life Style Diseases and Home remedies
- Immunity and medicinal Plants
- Use of wild vegetables and medicinal plants by Tribal community
- Herbal Technology
- Types of Medicinal Plants (Vegetables, Fruits, Spices, Grasses etc.)
- Cultivation strategies for medicinal plants

Module-2

Medicinal Plants : Description and Medicinal uses

- *Moringa oleifera*
- *Rauwolfia serpentine*
- *Murraya koenigii*
- *Zingiber officinale*
- *Aegle marmelos*
- *Adhatoda vasica*
- *Gloriosa superba*
- *Bacopa monnieri*
- *Tinospora cordifolia*
- *Aloe vera*
- *Hibiscus rosa-sinensis*

- *Chlorophytum tuberosum*
- *Mentha piperita*
- *Vitex negundo*
- *Withania somnifera*
- *Hemidesmus indicus*

Module-3

Applications and Career Opportunities

- Cultivation Practice of Some Medicinal Plants
- Extraction and Grading of Plant products
- Decoctions
- Soups
- Some Ayurvedic, Pharma and Herbal beauty products
- Agro Based Industries and Medicinal firms –(Dabur, Patanjali etc)
- Funding agencies for Herbal products
- Case study of Medicinal plant fields
- Current Issues and Research Associated with Medicinal Plants

10. Program Outcome :

At the end of this course the student will able to identify the medicinal plants, know about their medicinal uses and career opportunities in the field of herbal medicines.

Course Co-Ordinator's –

Mr. A. N. Darsimbe

Dr. S. V. Pundkar