



## **Medicinal Plants : Traditional Uses and Career Opportunities**

**Shri Shivaji Science College, Amravati**

**Department of Botany**

**organizes**

**Medicinal Plants : Traditional Uses and Career  
Opportunities Cycle 2**

## Permission letter

To,

The Principal,  
Shri Shivaji Science College,  
Amravati

**Subject: Permission regarding the Conduction of Value-Added Certificate Course.**

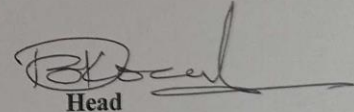
Respected Sir,

Taking into consideration about the current scenario of Covid-19 pandemic and importance of Medicinal Plants for boosting the immunity to fight against corona virus, Department of Botany, Shri Shivaji Science College, Amravati want to organize one month online certificate course on " **Medicinal Plants : Traditional Uses and Career Opportunities ( MPTUCO)"**Cycle - 2 from **16<sup>th</sup> August 2021 to 17<sup>th</sup> September 2021.**

This is an applied course and become more important as Government of India also establish a separate ministry " **MINISTRY OF AYUSH**" by understanding the value of medicinal plants. The main objective of the course is that the students must know about the novel medicinal properties of plants along with career opportunities in the field of Herbal Medicines.

Please permit us to conduct the course and oblige.

**Date: 13.08.2021**



**Head**  
Department Botany  
Shri Shivaji Science College,  
Amravati

*Received*  
*[Signature]*  
*14/08/2021*

## Notice

### Notice

Dear Learners,

Taking into consideration about the current scenario of Covid-19 pandemic and importance of Medicinal Plants for boosting the immunity to fight against corona virus, Department of Botany, Shri Shivaji Science College, Amravati is going to organize one month online certificate course on " Medicinal Plants : Traditional Uses and Career Opportunities ( MPTUCO)". This Course is designed for UG & PG students of Shri Shivaji Science College, Amravati.

This is an applied course and become more important as Government of India also establish a separate ministry " MINISTRY OF AYUSH" by understanding the value of medicinal plants. The main objective of the course is that the students must know about the novel medicinal properties of plants along with career opportunities in the field of Herbal Medicines.

**Course Title - Medicinal Plants: Traditional Uses and Career Opportunities  
(MPTUCO) Cycle -2**

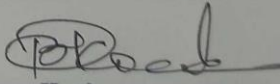
**Course Star Date: 16 August 2021**

**Course End Date: 18 Sept. 2021**

**Date of Final Examination: 18 Sept. 2021**

**Course Fees: Free**

**Registration Link : <https://forms.gle/SDhfNGFZznLTk2G66>**

  
Head  
Department of Botany  
Assoc. Prof. & Head  
Dept. of Botany  
Shri Shivaji Science College, Amravati  
Shri Shivaji Science College,  
Amravati-444603

## **REPORT**

### **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 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.

Department of Botany, Shri Shivaji Science College, Amravati., Our approach 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.

The duration of this course is 1 month (4 week ) and day wise lectures will be uploaded on college website and You Tube also. E-certificates will be issued to participants whose score in full course (Quiz + Assignment + Final Exam Quiz) is above 40% .

## **Aim and 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.

Online course on “ Medicinal Plants: Traditional Uses and Career Opportunities” from 16 August 2021 to 18 September 2021.

This Medicinal Plants course was open for all UG and PG students and also teachers ,we have received enormous response. This course has been more than 500 participants have registered with very enthusiastically. This remarkable response for course which has boosted our morals and encouraged us to organize similar events in future also.

### **Detailed time-wise course session plan**

#### **Module-1 Week 1**

#### **Role of Medicinal Plants in Human Life**

<b>Day</b>	<b>Topic</b>	<b>Speaker</b>
1	Introduction and overview of the course	Prof. B. K. Dorkar

2	History of Indian Folk Medicines	Mr. A.N. Darsimbe
3	Importance of Plants in Ayurveda : History and Current World	Dr. T. B. Wankhede
4	Life Style Diseases and Home remedies	Dr. R. C. Maggirwar
5	Immunity and medicinal Plants	Dr. D. D. Khedakar
6	Use of wild vegetables and medicinal plants by Tribal community	Dr. G. B. Hedawoo
7	Herbal Technology	Dr. D. V. Hande

## Module-2

### Medicinal Plants : Description and Medicinal uses

Day	Topic	Speaker
8	<i>Moringa oleifera</i>	Prof. B. K. Dorkar
9	<i>Rauvolfia serpentine</i>	Dr. G. B. Hedawoo
10	<i>Murraya koenigii</i>	Dr. T. B. Wankhede
11	<i>Zingiber officinale</i>	Dr. D. V. Hande
12	<i>Aegle marmelos</i>	Dr. R. C. Maggirwar
13	<i>Adhatoda vasica</i>	Dr. S. V. Pundkar
14	<i>Gloriosa superba</i>	Mr. A.N. Darsimbe
15	<i>Tinospora cordifolia</i>	Prof. B. K. Dorkar
16	<i>Aloe vera</i>	Dr. G. B. Hedawoo
17	<i>Hibiscus rosa-sinensis</i>	Dr. T. B. Wankhede
18	<i>Chlorophytum tuberosum</i>	Dr. D. V. Hande
19	<i>Mentha piperita</i>	Dr. R. C. Maggirwar
20	<i>Vitex negundo</i>	Dr. S. V. Pundkar
21	<i>Withania somnifera</i>	Mr. A.N. Darsimbe

### Module-3

#### Applications and Career Opportunities

Day	Topic	Speaker
22	Cultivation Practice of Some Medicinal Plants	Dr. S. V. Pundkar
23	Extraction and Decoction of plant products	Dr. D. D. Khedakar
24	Grading of Plant products	Dr. D. D. Khedakar
25	Soups	Dr. R. C. Maggirwar
26	Some Ayurvedic, Pharma and Herbal beauty products	Dr. G. B. Hedawoo
27	Agro Based Industries and Medicinal firms – (Dabur, Patanjali etc)	Dr. D. D. Khedakar
28	Current Issues and Research Associated with Medicinal Plants	Mr. A.N. Darsinbe

**Registration link :** <https://forms.gle/SDhfNGFZznLTk2G66>

**Telegram Link:** <https://t.me/joinchat/k64Ui8UpIIIkYWRI>

**Google class code :** mhrj4en

**Google class Link :**

<https://classroom.google.com/u/1/c/MzgwMDEyODY3Nzk2#:~:text=mhrj4en>

**Final Examination link:** <https://forms.gle/KaatdLRcnqwnzcsy8>

**Feedback link:** <https://forms.gle/JP6RmD68gugvhe2g9>

#### **Program Outcome :**

This course main aim the student will able to identify the medicinal plants, their medicinal uses, and career opportunities in the field of herbal medicines.





Prof. B. K. Dorkar delivering online lecture



Dr. G. B. Hedawoo delivering online lecture

**MURRAYA KOENIGII {Curry leaf} : A Spice with Medicinal Property**

**Chemical constituent**

Nutrients Value as Per 100 Gram	Fresh Curry Leaf	Dry Curry Leaf
Protein	6g	12g
Fat	1g	5.4g
Carbohydrate	18.7g	64.31g
Calcium	830mg	2040mg
Iron	0.93mg	12mg
B-carotene	0.0031mg	0.0059mg

The fresh leaves of *Murraya koenigii* contain

- 61.77- 66.2% of moisture,
- 2.1-12.5% of protein,
- 14.6-18.97% of total sugar,
- 9.7-13.06% of total ash,
- 1.35-1.82% of acid insoluble ash,
- 1.35-1.82% of alcohol soluble extractive
- 27.33-33.45% water extractive value

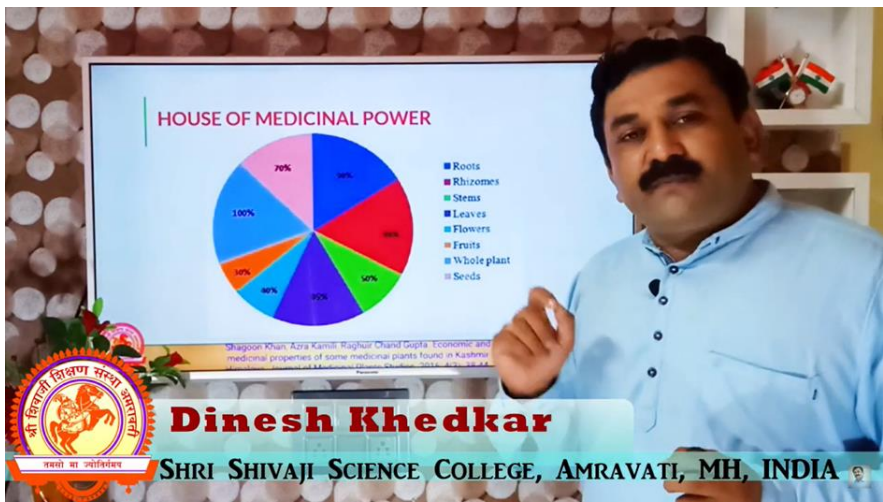
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Prof. . T. B. Wankhede delivering online lecture

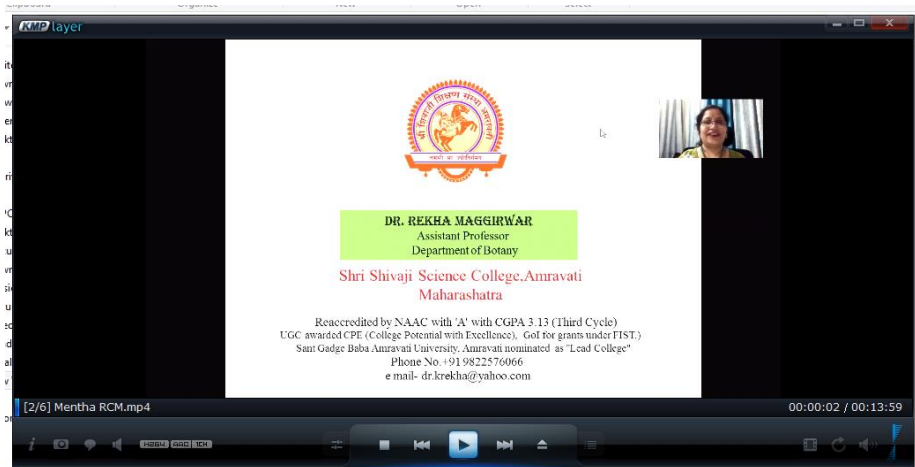




Prof. D. V. Hande delivering online lecture



Prof. D. D. Khedkar delivering online lecture



Dr. R. C. Maggirwar delivering online lecture



Dr. S. V. Pundkar delivering online lecture



Mr. A. N. Darsimbe delivering online lecture

## Certificate Copy:

	<p>Shri Shivaji Education Society, Amravati's <b>Shri Shivaji Science College</b> Shivaji Nagar, Nagpur Road, Amravati (MS)</p> <p><small>NAAC Accredited by Grade "A" with CGPA of 3.13 (Third Cycle), UGC Awarded Status of College with Potential for Excellence (Second Phase), Identified by DST, Govt of India for FIST and Sant Gadge Baba Amravati University, Amravati as Lead College</small></p> <p><b>Affiliated to Sant Gadge Baba Amravati University, Amravati (MS) INDIA</b></p>	
<p>Date: 19/09/2021</p>		
<p><b>CERTIFICATE</b></p> <p>This Certificate is awarded to</p> <p><b>Mr Chayan Adhikari</b></p> <p>College/Institute: Dr. Harisingh Gour Vishwavidyalaya ( A Central University) For the successful completion of the Online Value added Certificate Course on <b>"Medicinal Plants : Traditional Uses and Career Opportunities, Cycle-2"</b> as prescribed and ported by the Department of Botany during <b>16th August -18th September 2021</b>. His/Her performance was Satisfactory(B)/ Good(B+)/ Excellent(A)/ <b>Outstanding(A+)</b>.</p>		
 Course Coordinators	 Head of the Department	 IQAC Coordinator
		 Principal
<p>Made for free with Certify'em</p>		

### Convenor

Prof. B. K. Dorkar

### Course Co-ordinator

Dr. S. V. Pundkar

Mr. A. N. Darsimbe

### Organizing committee member

Dr. G. B. Hedawoo

Prof. T. B. Wankhede

Prof. D. V. Hande

Prof. D. D. Khedkar

Dr. R. C. Maggirwar