

(A multi-faculty college affiliated to Vidyasagar University and funded by UGC & Govt. of W.B.)
Vill. & P.O.-Kapgari: P.S.-Jamboni: Dist.-Jhargram (W.B.): Pin.-721505

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Contact: 9433122259 // 9883059582 :: Website: sbmahavidyalaya.in

Date: 29.05.23

#### NOTICE

All the concerned students of UG, CBCS, GEO (Hons/ Gen.) of SEM-II who are interested the forthcoming certificate Course(2022-23) on Value Added, Topic on 'Identification of Local Medicinal Plants and Their Utilization in Daily Life ', duration 3 months (30 Hrs)/12 week from June to August,2023 must be enrolled your name and to be submitted to coordinator (Dr. Pranab Sahoo, HoD) with in 6<sup>th</sup> june,2023. Seat Capacity: 36

Dr. Deba Prasad Sahu

Principal

Principal
Seva Bharati Mahavidyalaya
Kapgari, Jhargram



#### Certificate Course on Value Added (2022-23)

Topic on 'Identification of Local Medicinal Plants and Their Utilization in Daily Life'

Seat Capacity: 36 Duration: 3 months (30 Hrs)/12 week

Course offer for UG, B.Sc (Hons/Gen.), SEM-II/III (2022-23)

Eligibility:- Under Graduate appear/pass(any faculty)

Value of the course: In India is a largest cultural hearth place of the world and India is blessed with rich and diverse heritage of cultural traditions. The different parts of the plant have traditional medicinal uses to cure various diseases from the beginning of human society. The term 'herb' refers for any part of the plant like fruit, seed, bark, flower, leaf, stigma or a root as well as a non-woody plant. These medicinal plants are also used as food, flavonoid, medicine or perfume and also in certain spiritual activities. Plant medicines are in wide use around the world. Medicinal plants such as Alovera, Harjora, Satamuli, Basak, Kalmegh, Thalkuni, Pudina, Aloe, Tulsi, Neem, Turmeric and Ginger cure several common ailments. These are considered as home remedies in many parts of the country. The forest in India is the principal repository of large number of medicinal and aromatic plants, which are largely collected as raw materials for manufacture of drugs and perfumery products. It is known fact that lots of consumers are using Basil (Tulsi) for making medicines, black tea, in pooja and other activities in their day to day life. Medicinal plants used on various severe diseases.

#### **Objectives:**

- a. To identify the indigenous medicinal plants and herbs in South Bengal
- b. To introduce the local medicinal plants in our college campus and locality area
- c. To create the awareness and interest about value of herbal plants among the Students/common people/cultivators about medicinal plants.
- d. To enrich the knowledge about medicinal plants.
- e. To strengthen the educational system and research in the field of medicinal plants through these courses.
- f. To develop the using methods of herbal plants
- g. To support the education related to healthcare.
- h. To increase public awareness about the efficacies of herbal drugs.
- i. To develop awareness for utilization of herbal medicines for home remedies.
- j. To develop a data bank.
- k. To identify rare and endangered medicinal plants.
- To conserve the biodiversity of medicinal plants.
- m. To create employment facilities.
- n. To give information to people about various policies run by the Government.

#### **Schedule of the Programme**

- 1) Certificate course is 3 months duration (30 Hrs) .
- 2) Certificate distribution after completion of course.
- 3) Course content :- I) Theory paper (Objective type) 50 marks
- II) Practical (One project report) 50 marks
- 4) Total marks -Theory + Practical (Project) = 100
- 5) Types of Evaluation:- Theory paper, Practical, Project, Attendance

Dr. Deba Prasad Sahu

Principal

**Principal**Seva Bharati Mahavidyalaya
Kapgari, Jhargram



ranab Sahoo 12.6.23

Course Coordinator

Course Co-ordinator Seva Bharati Mahavidyalaya Kapgari, Jhargram

### Syllabus Distribution and Unit Wise Lesson Plan

Department of Geography, B.Sc. Honours/General Certificate Course on Value Added (2022-23)

### Topic on 'Identification of Local Medicinal Plants and Their Utilization in Daily Life'

Seat Capacity: 30

Duration: 3 months (30 Hrs)/12 week

Course offer for UG, B.Sc (Hons/Gen.), SEM-II/III (2022-23)

Semester	Course Course Syllabus and Unit distribution Type with Coordinator				Allotted teacher	Credit (10)	Practical( T&P)	(30)	Approved
	Course Title			Unit -I.1: Meaning, Concept and Scope of VAC	Dr. Pranab Sahoo	01	01	1	Coordinator
			Theory-I	Unit-1.2: Basic concept on medicinal plants	Mr.Sanjay Sinha		01	1	Coordinator
		value Dr. Pranab Sahoo		Unit-I.3: Importance of medicinal plants	Dr. Pranab Sahoo	02	01	1	Coordinator
n	Certificate			Unit-I.4: Availability of local and indigenous medicinal plants in our habitat area	Mr. Sanjay Sinha		01	1	Coordinator
(2022-23)	Course on Value Added		200		Mr. Sudipta Pratihar	02	01	1	Coordinator
				Unit-1.6: Conservation and management of medicinal plants and garden	Dr. Chandan Karan		01	1	Coordinator
			Practical-II	Unit-II.1: Observation and Identification of local	Dr. Pranab Sahoo Dr. Sanjay Sinha	01	3	6	Coordinator
				Oint H.Z. Concetton of Bureland	Dr. Pranab Sahoo Mr. Sudipta Pratihar	01	2	4	Coordinator
			Unit-II.3:U	Unit-II.3: Using methods of Medicinal Plants	Dr. Pranab Sahoo	01	2	4	Coordinator
					Dr. Pranab Sahoo Mr. Sudipta Pratihar	02	5	10	Coordinator

#### Syllabus:

Unit -1.1: Meaning, Concept and Scope of VAC

Unit-I.2: Basic concept on medicinal plants

Unit-I.3: Importance of medicinal plants

Unit-I.4: Availability of local and indigenous medicinal plants in our habitat area

Unit-I.5: Value of medicinal plants in daily life

Unit-1.6: Conservation and management of medicinal plants and garden

#### **Books Recommended:-**

- Chaturvedi A. 2008. Ethnobotany and Taxonomy of Angiosperms. Rashtrasant Tukadoji Maharaj Nagpur University Press. 1-295.
- Pandey B.P.1978.Economic Botany. S. Chand and Company LTD. Ram Nagar, New Delhi.1-534.
- Directorate of Forest, West Bengal, 2014: 150 years of Forestry, Principal Chief Conservator of Forest, Aranya Bhawan, Kolkata

archers Group, Forest Department, 2018: Dakhin Banger Vesaja Udvid Sampad, Kolkata

Dr. Deba Prasad Sahu

Principal

Principal Seva Bharati Mahavidyalaya Kapgari, Jhàrgram

Dr. Pranab Sahoo

Course Co-ordinator Seva Bharati Mahavidyalaya

Kapgari, Jhargram

#### Certificate Course on Value Added (2022-23)

Topic on 'Identification of Local Medicinal Plants and Their Utilization in Daily Life' Scat Capacity: 36 Duration: 3 months (30 Hrs)/12 week

Course offer for UG, B.Sc (Hons/Gen.), SEM-II/III (2022-23)

#### Routine

Week/Month	th Day Duration( Hrs.) & Unit/ topic Time		Allotted teacher	Remark	
3 <sup>®</sup> Week of June 2023	Saturday 17.06.23	1 (2.30-3.30pm)	Unit -1.1 Meaning, Concept and Scope of VAC	Dr. Pranab Sahoo	Theory
		1 (3.30-4.30pm)	Unit-L2: Basic concept on medicinal plants	Mr.Sanjay Sinha	Theory
4th week of June, 2023	Saturday 24.06.23	1 (2.30-3.30pm)	Unit-I.3: Importance of medicinal plants	Dr. Pranab Sahoo	Theory
		1 (3.30-4.30pm)	Unit-I.4: Availability of local and indigenous medicinal plants in our habitat area	Mr. Sanjay Sinha	Theory
1 <sup>th</sup> week of July,2023	Saturday 01.07.23	1 (2.30-3.30pm)	Unit-I.5: Value of medicinal plants in daily life	Mr. Sudipta Pratihar	Theory
		1 (3.30-4.30pm)	Unit-1.6: Conservation and management of medicinal plants and garden	Dr. Chandan Karan	Theory
2 <sup>nd</sup> Week of July,2023	Saturday 08.07.23	2 (8.30-10.30am)	Observation and Identification of local medicinal plants	Mr. Sanjay Sinha	Practical
		2 (2.30-4.30pm)	Observation and Identification of local medicinal plants	Dr. Pranab Sahoo	Practical
3 <sup>rd</sup> Week of July,2023	Saturday 15.07.23	2 (2.30-4.30pm)	Observation and Identification of local medicinal plants	Mr. Sanjay Sinha	Practical
4 <sup>th</sup> Week of July, 2023	Saturday 22.07.23	2 (2.30-4.30pm)	Collection of Different medicinal plants	Dr. Pranab Sahoo	Practical
5 <sup>®</sup> Week of July,2023	Saturday 29.07.23	2 (2.30-4.30pm)	Collection of Different medicinal plants	Mr. Sudipta Pratihar	Practical
1st Week of August ,2023	Saturday 05.08.23	2 (2.30-4.30pm)	Unit-II.3:Using methods of Medicinal Plants	Dr. Pranab Sahoo	Practical
2 <sup>nd</sup> Week of August ,2023	Saturday 12.08.23	2 (2.30-4.30pm)	Units -II.4: Project Report	Dr. Pranab Sahoo	Practical
3 <sup>37</sup> Week of August 2023	Saturday 19.08.23	2 (2.30-4.30pm)	m) Units –II.4: Project Report Dr. Pra		Practical
Week of August, 2023	Saturday 26.08.23	2 (2.30-4.30pm)	Units -II.4: Project Report	Dr. Pranab Sahoo	Practical
1 <sup>®</sup> Week of Sep,2023	Saturday 02.09.23	2 (8.30-10.30am)	Theory Examination	Dr. Pranab Sahoo & Mr. Sanjoy Sinha	Examination
		2 (2.30pm-4.30pm)	Practical examination & Project Report Submit	Or. Pranab Sahoo & Mr. Sudipta Pratibar	Examination

Dr. Deba Prasad Sahu

**Principal** 

Principal Seva Bharati Mahavidyalaya Kapgari, Jhargram



Dr. Pranab Sahoo Course Co-ordinator Seva Bharati Mahevidyalaya

Kapgari, Jhargram

#### SEVA BHARATI MAHAVIDYALAYA Syllabus Distribution and Unit Wise Lesson Plan

Department of Geography, B.Sc. Honours/General

Certificate Course on Value Added (2022-23), Code: GEO- VAC-CC-001

### Topic on 'Identification of Local Medicinal Plants and Their Utilization in Daily Life'

Seat Capacity: 36 Duration: 3months (30Hrs)/12 week Course offer for UG, B.Sc (Hons/Gen.), SEM-II/III(2022-23

Attendance Sheet

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3.	JOYITA SINGHA	2022 IVU 22	VUZ21460644	1122146-	Joyito Singh
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u	RACHANA DANDAPAT	2022 VU 22	VU221460661	1122146-	Rachana
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6.	ARCHANA MAHATA	2022114222	V122 1460626	220026	Mahata
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8.	SUMITA AHIR	2022/VU 22	VUZ214606		
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13.	DALTA MAHATA	2022/VV 22	VU221460690	1122146-2200	Dalia Mahad
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15.	PRIYA GHOSA	14606-59	10221760653	48	Buga Cours
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Course Co-ordinator
Seva Bharati Mahavidyalaya
Kappari, Jhangram

Syllabus Distribution and Unit Wise Lesson Plan Department of Geography, B.Sc. Honours/General

Certificate Course on Value Added (2022-23), Code: GEO- VAC-CC-001
Topic on 'Identification of Local Medicinal Plants and Their Utilization in Daily Life'

Seat Capacity: 36 Duration: 3months (30Hrs)/12 week Course offer for UG, B.Sc (Hons/Gen.), SEM-II/III(2022-23

#### Attendance Sheet

Sl.No	Name				
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24.	ARNAB MAHATA	14006-38	VV221460629	1122196-	Amab
25.	Manohar Mahala	873M/125CH/ 2022/1422	VU22146069	9 1122146-	Manchar
26	Rahel Kabi	14606 - 49 2022   VU 22 14606 - 66	VUZZ14604	_ , ,	Ratul Kake
27	SAHIL MAITY	SPWIBECHI	<u> </u>		Seelin Mary
28	SOURAY DAS	an salman 1	VU221460684	220056	Sourar Das
25	SOUVIK SINGHA	2022/0022	VU 2 ? 14 6 0 6 8 G	H22146 -	Souvik singha
30	ARITRA SANKAR KARAK	CAMINCO HI	VU2214606-29	220068 1122141 —	Aritra Sanhar
31	AMALESH NAYEK	SOMITS SCHI	11221460619	1122196-	Amolesto Nayer
32	SAMAY MURMU	Shm RSCH   2022 VU 22 \ 14606 - 75	N221460675	1122146- 220059	Samog Murni
33	SOUKHV DAS	STOMINSCH!	10221966685	1122146 -	Sourar Das
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Course Co-ordinator
Seva Bharati Mahavidyalaya

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#### SEVA BHARATI MAHAVII

Examination of Certificate Course on Value Added, 2023

Course Offer for B.Sc. Geography (Honours/General), SEM-II/III, 2022-23

Sub: Value Added Course Code: GEO- VAC-CC-001

Topic: 'Identification of Local Medicinal Plants and Their Utilization in Daily Life'

FM-50

TIME-2 Hours

1x50=50

VUID NO. 300/BSCH   2022   VUZ 214606-87 REG. NO. VUZ 2146	60687 of 2022-23
ROLL NO. 1122146 - 220069 SUB.CODE 450-	
Answer the Following Questions	1x50=50

1.	Which of the following is an Indian medicinal plant
	a) Oryzasativa
	b) Solenummelongina
	Rauwolfiaserpentina
	d). Sugar factory
2.	Roots of this species contain valuable

- alkaloids useful in medicine Rauwolfiaserpentina
  - **EmblicaOfficinalis**
  - c) Azadirachtaindica
  - d) Helianthus annuus
- Reserpine is used in 3.
  - a) Malaria
  - High blood pressure
    - Asthma c)
    - d) Spices
- Stramonium drug is obtained from the plant species of
  - a) Osimum
  - b) Rauwolfia
  - Datura
  - d) Asphodels
- Richest source of vitamin 'C' is
  - a) Capsicum frutescence
  - Emblicaofficinalis (Amla)
  - c) Orange
  - d) Lemon
- Rauwolfiaserpentina belongs to the family 6.
  - a) Rubiaceae
  - b) Solanaceae
  - Malvaceae
  - Apocynaceae

7.	"Central Drug	Research	Institute"	is situated	a
7.	"Central Drug	Research	Institute"	is situated	į

- Lucknow
- b) Madras
- **Bombay** c)
- Delhi

- 8. Garlic is used most commonly as-
  - Antibacterial
  - In the treatment of Insomnia
  - In weight reduction
  - Seasoning
- 9. From which part of the plant is quinine obtained?
  - Leaves
  - Bark -
  - C. Fruit
  - d. Seeds
- 10. Which of the following is not obtained from Neem trees?
  - Curcumin
  - Terpenoids
  - Tumerone
  - Alantone
- Which of the following vitamins is present in Emblicaofficinalis?
  - a. A.
  - b. B.
  - C.
  - d. D,
- Which of the following plants is used to treat 12. inflammatory problems like arthritis?
  - a. Take
  - Turmerie
  - c. Tulsi
  - d. Amla
- Which of the following is/are used to strengthen the immune system and cope with physical and emotional stress?
  - Holy basil
  - b. Curcuma longa
  - e, Azadirachtaindica
  - d, Rosa indica

	8411		
14.	Which of the following is commonly used to	24.	Kalmegh (Andrographispaniculata) used as a
	purify blood and control blood sugar level?		drug to cure
	Curcuma longa		a. Bronchitis
	b. EmblicaOfficinalis		<ul> <li>b. common cold</li> </ul>
	<ul> <li>Cinchona officinalis</li> </ul>		c. Diarrhoea
	d. Ocimum sanctum		All the above
15.	Which of the following plants belongs to the	25.	Moisturizing gel is obtained from
	Zingiberaceae family?		Aloe vera
	a. Take		b. Poor assoc
	b. Margosa		c. Acacia vistina
	c. Amla		d. None of these
	Turmeric V	26.	Drugs which induce dreamy state of
16.	Which of the following plants is used to		consciousness is
	develop muscles and to treat scurvy?		a. Sedative
	a. Take		b. Stimulant
	b. Quinine		c. Depressant
	c. Tulsi		Hallucinogen
	M. Amla	27.	Which one of the following is a medicinal
17.	Which of the following constituents is not		plant
	obtained from a Tulsi plant?		a. Jatrophacurcus
	a. Ursolic acid		Calendula officinalis
	b. Apigenin		` /
	Alantone		
	d. Lutcolin	28.	- The state of the
18.	Which of the following plants has anti-diabetic,	20.	The morphine obtained from opium is a
	anti-bacterial and anti-viral properties?		a. Tannin
	a. Curcuma longa		Alkaloids
	b. Cinchona		c. Gums
	Azadirachtaindica	20	d. Latex
	d. EmblicaOfficinalis	29.	Withaniasomnifera is the botanical name of
19.			a. Indian madder
17.	Which of the following is used to repel		b. Ashwagandha
	mosquitoes as well as to kill the mosquito		c. Sarpagandha
			d. D.Mulethi
	a. Cinchona officinalis	30.	Reserpine is an alkaloid obtained from
	Holy basil		a. Ashwagandha
	c. Hibiscus rosa-sinesis		Sarpagandha
20	d. Rosa indica		c. Opium
20.	Which part of the Emblicaofficinalis is used in		d. Cannabis
	various medical preparations?	31.	Which alkaloids are present in opium
	a. Leaves		a. Codeine
	b. Stem		b. Morphine
	c. Seed		c. Thebaine
	Fruit		All of these
21.	Holy basil (Tulsi) is a member of family	32.	The medicinally most important part of
	Labiatac		Rauwolfiaserpentina is
	b. B Asclepiadacea		Root
	c. Umbelliserae		b. Rhizome
	d. None of the above		c. Aerial stem
22.	Brahmi is an important tonic for		d. All of these
	Brain	33.	The morphine obtained from Opium is a
	b. Body	55.	
	c. General health		a. Latex b. Pome
	d. None of the above		
23.	Indian gooseberry is		
	a. Blueberries	2.4	d. None of these
	b. Strawberries	34.	Aloe barbadensis belongs to the family
	Amla		b) Apocynaceae
	d. None of the above		c) Graminea
	a. Holle of the above		d) None of the above
			The state of the s

\ e	Study of drug plants is known as	43.	The general techniques of medicinal plant
35.			extraction are
	a) Pharmac b) Pharmacology		a) Infusion
	Pharmacognosy		b) Digestion
	d) Pharmaceutical Chemistry		c) Counter-current extraction
30.	Rauwolfiaserpentina is termed as a snake root		All of the above
.30.	plant because		and the standard for chronic
	a) It possesses venomous poison	44.	Leaf juice of which plant is given for chronic
	b) It smells like a snake		fever, haemorrhage, dysentery, and dyspepsia
	or It is used in snake bite		and also used to check vomiting
	d) Its roots appear snake-like		a) Pan
37.	What is the Botanical name of Black pepper?		Tuls
	a) Curcuma longa		c) Ark
	b) Acorus pen		d) Arusa
	c) Dioica pepper	45.	Which of the following is given in disorders of
	Piper nigrum		the nervous system
38.	Giloy is used in the treatment of-		Garlic Garlic
	a) Fever		b) Onion
	b) Infections		c) Turmeric
	c) Diarrhoea and diabetes		d) Ginge
	All the above	46.	Which of the following is a blood purifier
39.	Curcumin is extracted from		a) Opium
	Turmeric Turmeric		Emblic
	b) Kokum		c) Eagles
	c) Ginger	45	d) All the above
	d) Curry leaf	47.	. Ashagandha belongs to genus
40.	Which of the following plants contains the		Withania
	compounds gedunin and nimbolid?		b) Solanum
	a) Curcuma longa		c) Lycopersicum
	Azadiractaindica	40	d) None of the above
	c) Cinchona officinalis	48.	Which of the leaves are used as mosquito
	d) Ocimum sanctum		repellent
41.	Which of the following is not correct about a		Eucalyptus
	neem tree?		b) Digitalis
	a) It is evergreen but under severe		c) Cassi
	drought, it may shed its leaves		d) Stramonium
	b) All parts of the tree namely seeds,	49.	Which alkaloid is responsible for giving
	leaves, flowers, and bark are used		pungency to the black pepper?
	for the preparation of medicines		Piperine
	<ul> <li>It has been widely used as animal</li> </ul>		b) Morphine
	feed		c) Ephedrine
	It grows in temperate regions		<li>d) None of the above</li>
42.	Which has narcotic property-	50.	Honey is
	a) Charas		a) Nectar of flower
	b) Bhang		<ul> <li>b) Nectar stored in the honey sac</li> </ul>
	c) Marijuana		Nectar mixed with saliva and stored
	All the above		in honey sac
	$\vee$		d) Nectar and water sucked by the
			honey bee
			•
	•••••		

### Seva Bharati Mahavidyalaya

UG, CBCE, B.Sc (Hons), Semester -II

Dept. of Geography

A

PROJECT REPORT

ON

# CERTIFICATE COURSE ON VALUE ADDED (2022-23)

Topic: Identification of Local Medicinal Plants and Their Utilization in Daily Life'

Submitted By

Roll 1122146 No 220056

**Under the Supervisors** 

Dr. Pranab Sahoo

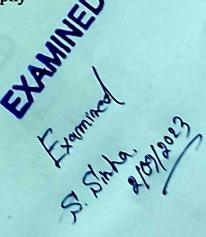
Assistant professor and HOD, Dept. of Geography

&

**Sudipta Pratihar** 

**HoD, Department of Zoology** 

Seva Bharati Mahavidyalaya, Kapgari





#### CONTENT

#### CHAPTER- I:

#### INTRODUCTION

- 1.1 INTRODUCTION
- 1.2 MEANING AND VALUES OF MEDICINAL PLANTS
- 1.3 LOCATION OF HERVAL PLANTS
- 1.4 SELECTION AND IDENTIFICATION
- 1.5 AIMS AND OBJECTIVES
- 1.6 METHODOLOGY
- 1.7 SIGNIFICANCE

## CHAPTER-II: STUDY AND OBSERVATION OF MEDICINAL PLANTS

- 2.1 OBSERVATION OF PLANTS DIVERSITY
- 2.2 IDENTIFICATION OF MEDICINAL PLANTS
- 2.3 COMMON STUDY ON MEDICINAL PLANTS

## CHAPTER-III: UTILITY OF LOCAL MEDICINAL PLANTS

- 3.1 UTILITY OF HERBS PLANTS DIVERSITY
- 3.2 UTILITY OF SHRUBS PLANTS DIVERSITY
- 3.3 UTILITY OF TRESS DIVERSITY

## CHAPTER-IV: EXISTING LOCAL MEDICINAL PLANTS AND CHALLENGES

- 4.1 EXISTING VALUE OF MEDICINAL PLANTS DIVERSITY
- 4.2 CAUSES OF LOCAL HERBAL DIVERSITY LOSS
- 4.3 LOSS OF LOCAL DIVERSITY LOSS AND IMPACT ON DAILY LIFE

CHAPTER-V CONCLUSION, SUGGESTION AND PROPOSAL POLICY ON MEDICINAL PLANTS DIVERSITY MANAGEMENT

**BIBLIOGRAPHY** 



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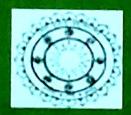
### **Project Report**

on

# Certificate Course on Value Added

Sessiom: 2022-23

Topic: 'Identification of Local Medicinal Plants and Their Utilization in Daily Life'



# Seva Bharati Mahavidylaya

UG, B.Sc (Homs/Gen.), SEM-II

Department of Geography



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Social Marky, G.C.-B., Sem.-JI Reg. No.V.V.2.2.146.0.6.7.1.

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