Shri Sarda Education Society's (A Linguistic Minority Educational Institute)



Smt Radhabai Sarda Arts, Commerce & Science College Anjangaon Surji, Dist - Amravati, Maharashtra NAACAccredited 'A' with CGPA 3.21

Department of Botany

STUDENTS CENTRIC METHODS

2022-2023

Shri Sarda Education Society's (A Linguistic Minority Educational Institute)

Smt Radhabai Sarda Arts, Commerce & Science College Anjangaon Surji DEPARTMENT OF BOTANY

STUDENTS CENTRIC METHODS

Various methods of experiential and participatory learning, as well as problem-solving methodologies, are implemented to make sure that students are dynamic participants than passive listeners in the teaching learning process.

Experiential learning:

Faculty of the department promotes experiential learning method.

Practical like -

- Plant morphology and Anatomy
- Plant identification
- Medicinal plant cultivation usess
- Community study of college campus
- Detection of primary metabolites
- Plant physiology experiments Photosynthesis, Respiration and others

Projects on -

- Wild edible plants
- Plant disease on crop plant survey
- Survey on Use of Medicinal Plants by Traditional Healers
- Fruit ripening centers
- Medicinal plants
- Nutraceutical Compound and Metabolites in Fruits marketed
- Nutraceutical Compound and Metabolites in vegetables
- Phytochemicals in some wild medicinal plants
- Fruit value etc

Participative Learning:

- Seminars
- Group discussions
- Field visits/Industrial visits/Survey etc.
- Medicinal Plant Exhibitions
- Filed projects
- Medicinal Plant Sapling preparation techniques

Problem Solving Method:

- Case studies: practical knowledge to develop problem solving ability Projects on
- Medicinal plants
- Cultivated medicinal plants in Anjangaon region
- Survey on herbicides used by farmers

Experiential learning:

EXPERENTIAL LEARNING – Hands on for Plant sapling preparation







EXPERENTIAL LEARNING –Participation in practical





EXPERENTIAL LEARNING –Photosynthesis process





EXPERENTIAL LEARNING – Chromatography



Participative Learning:

PARTICIPATIVE LEARNING –Participation in Seminar



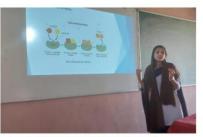






PARTICIPATIVE LEARNING –Participation in Seminar











PARTICIPATIVE LEARNING -Participation in Group discussion (GD)



PARTICIPATIVE LEARNING –Participation in Group discussion (GD)





PARTICIPATIVE LEARNING –Participation in Exhibition



Problem Solving Method:

Department of Botany

FIELD PROJECT / SURVEY REPORT

Department of conducted field project and Survey related to Wild glory, Medicinal plant, Wild edibles, Cultivated medicinal plants, Ornamental plants, etc. prescribed by S G B Amravati University Amravati for B.Sc. II students. Fifty five students participated in field project and survey.

Participated students in Filed project and Survey:

SN	TITLE OF PROJECT/ SURVEY	CLASS	STUDENT NO
1	Morphology, Recorded and Local uses of –		
	Herbal Medicinal plants in Anjangaon Taluka		
	region		
2	Wild glory in Anjangaon region		
3	Survey on Wild Edibles marketed in		
	Anjangaon Taluk region –	B.Sc. II SEM-III	53
4	Survey on Medicinal plants cultivated by		
	farmers in Anjangaon Surji tahsil.		
5	Survey on Use of Medicinal Plants by		
	Traditional Healers in Villages of Anjangaon		
	Tahsil		
6	Survey on Use of Medicinal Plants by		
	Traditional Healers in Anjangaon and Surji		
	Total of B.Sc. II SEM-III		53



Dr. Mangesh Dagawal
Associate Professor & Head
Department of Rotary
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Anjaserson Surjs, Diet. Assessori (165)

PRINCIPAL Smt.Radhabai Sarda Arts, Commerce & Science College Anjangaon Surji - - -

Participated students in Filed project and Survey:

SN	TITLE OF PROJECT/ SURVEY	CLASS	STUDENT NO
1	Survey on Hebicides and Biofertilizers use by farmers for weeds eradication from crop field in Anjangaon region		
2	Banana Ripening Centers In Anjangaon Taluka Region (Artificial and Natural)		
3	Nutrient deficiency and symptoms in Crops cultivated in Anjangaon Surji region	B.Sc. III SEM-V	55
4	Review on Pharmacognosy of Piper longum		
5	Carbon sequestration by plants in college campus		
6	Plant Community Study of College Campus		
7	Carbon sequestration by plants in along the road side in Anjangaon		
	Total of B.Sc. II SEM-III		55

Principal
PRINCIPAL
Smt.Radhabai Sarda Arts,
Commerce & Science College
Anjangaon Surji





Anjangoan Surji, Dist. Amravati (MS) - 444705 Estd. 1966

Affiliated to Sant Gadge Baba Amravati University, Amravati



DEPARTMENT OF BOTANY

TOPIC NAME-

Survey of Wild Edible in Anjangaon Surji Region

Class B.Sc. 2nd Year (III sem)

Guided by

Dr. Mangesh Dagwal Sir

SMT RADHABAI SARDA ARTS, COMMERCE & SCIENCE COLLEGE, ANJANGAON SURJI DEPARTMENT OF BOTANY

Project on –Survey on Wild Edible plants from Anjangaon Surji region. Sheet No.

SURVEY SHEET

Date: 25/11		Time 05:04 P	20.00
1. Name of Inform	ant: Asha Samadha	n Rajane	
	At Post Kumbharga ji, Dist Amravati		
3. Age: -62	Occupation: Farmer	Caste:—.5C	£
4. Name of the Pla	nt:		
Local Name:	Chavali		
Botanical Name:	Amaranthus viridis	1	
Family:	Amaranthaceae		
5. Plant part used:	Leaves		
6. Location:	Found in muddy a		
7. Recipes:	First boil leaves, the	en take a vessel	,
ي.	take oil spices, salt, en		eaves.
8. Uses:	Rich in Iron and	ACT OF ACT OF THE CASE OF THE	
4	ealty nutrients and	proteins	
9.Additional inform	ation: Different benifits as	re-reduce inflamm	nation in the
	body, helps to reduce	appetite and inc	rease weight loss.
and the second of the second s	of student collected information	Signature	of informant
Om P. KI	node. B.ScII	3-11711	ट्यान



SARDA EDUCATION SOCIETY (TRUST)

SMT Radhabai Sarda Arts, Commerce And Science College

Anjangaon Surji Dist. Amravati (M.H)444705

DEPARTMENT OF BOTANY

TOPIC NAME

SURVERY ON USE OF MEDICINAL PLANTS IN UNANI MEDICINE FROM ANJANGAON SURJI REGION

CLASS: - Bsc. II Year

(Third Semester)

GUIDED BY

Dr.Mangesh Dagwal

SMT Radhabai Sarda Arts, Commerce And Science College

DEPARTMENT OF BOTANY CERTIFICATE

This is to certify that <u>Humaira Saleha, Javeriya Firdous,</u>

<u>Ayesha Humaira, Absar Anjum, Ashna Navira,</u>

<u>Javeriya Tabassum, Mahevish Anam, Farha Parveen,</u>

<u>Saniya Firdous, Iqra Anam.</u>

BSC - II (Sem III) 2022-2023 has completed project entitled Survey on use of Medicinal Plants in Unani Medicine from Anjangao Surji Region during 31st September to 15th November 2022.

Incharge Guide

Dr Mangesh Dagawa Bolomy Separh Smt. Radiable Sadd toler Anjangaon Sura Daga Andri Mangesh Band rwa charge Science Farrely

S. : PAdhahai Salda College.

SMT RADHABAI SARDA ARTS, COMMERCE & SCIENCE COLLEGE, ANJANGAON SURJI

DEPARTMENT OF BOTANY

W-2022

Project on - Survey on use of Medicinal Plants in Unani Medicine from Anjangaon Surji Region

Sheet No.

SURVEY SHEET

Date :	0	1	Time			
Name of Informant :	Dr. S	amir	Sohel	C BHM	15)	
Address: ———————————————————————————————————	Seva c					
Age: _30	Occupation: -	Docto	A_ Religion	Muslin	2	
Name of the Plant	used:					
Local Name:	Adu	Isa				
Botanical Name:	- Justie					
Family:	Acun					
Plant part used:	All pe	ists of	this 1	elent		5 3
Plant collected fro	om Location: —	Boluni	cal gare	leo.		7.
Local Use:	it is	Usoel in	the tr	entment	Ć.	-1E.
	of cough	, BAD	chitis,	Asthona	,	
	denled	dilmen	18 , 34	ecurage		
W.	gums ,	pyossh	olu ,1	cothache	etc.	
Additional infor	mation: It	s an I	strong ex	peetorem	et	
	,	LL .		. b'a 0 1	/	
	indivi	duals	suffering.	Jem co	olds,	
Name & Signatu	individual for the state of student	s, and	Bronchit	Signati	ure of inform	ant
Nome of Guide	Taueriya	perdou	d		Seul	_

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(Affillated to Sant Gagdge Baba Amravati University, Amravati)

NAAC Accredited 'A' with CGPA 3.21

- Topic -

Survey on Herbicides & Biofertilizer use by farmers for weeds eradication form crop field in Anjangaon Surji

Department Of Botany (AY 2022-23)

B.Sc. III ,Sem-V



Guided By Dr. Mangesh Dagwal Sir

Prof. Ramchandra Kulkarni



SARDA EDUCATION SOCIETY (TRUST)

SMT Radhabai Sarda Arts, Commerce And Science College

Anjangaon Surji Dist Amravati (M.H) 444705

DEPARTMENT OF BOTANY

TOPIC NAME

NUTRIENT DEFICIENCY AND SYMPTOMS IN CROPS
CULTIVATED IN ANJANGAON SURJI REGION

CLASS: BSc. III Year

(Fifth Semester)

GUIDED BY

Dr.Mangesh Dagwal

SOYABEAN

Botanical Name: - Glycine max



INTRODUCTION

The soybean, soy bean, or soya bean (Glycine max) is a species of legume native to East Asia, widely grown for its edible bean, which has numerous uses Traditional unfermented food uses of soybeans include soy milk, from which tofu and tofu skin are made.

NUTRIENT DEFICIENCIES IN SOYABEAN

Nitrogen (N),Phosphorous (P),Potassium (K),Magnesium (Mg), Sulphur (S),Iron (Fe),Manganese (Mn),Sudden death syndrome (SDS)

SYMPTOMS

- Poor nodulation on roots.
- Stunted, spindly plants with light green color, which appears first on lower (older) leaves.
- Leaves usually have a dark green to bluish tint.
- > Interveinal chlorosis starting from the base of the leaf.
- Reduction in overall growth. Yellowing, reddening and dying leaf margins on lower (older) leaves during vegetative growth and on upper (younger) leaves during grain fill.
- Basal portions of the leaf remain green.
- Ragged appearance of older leaves.
- > Stunted and slow growth.
- Development of purple seed stain, and misshapen and wrinkled seeds.