

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



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

Department of Botany

STUDENTS CENTRIC METHODS

2023-2024

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
- Herbarium Preparation
- Medicinal plant cultivation and uses
- Community study of college campus
- Detection of primary metabolites
- Plant physiology experiments – Photosynthesis , Respiration , Chromatography and others
- Molecular Biology experiments- DNA Isolation , Principles , hands on of instruments like- Electrophoresis, Centrifuge, Autoclave etc.

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
- Participation in Avishkar
- Filed projects
- Medicinal Plant Sapling preparation training
- Medicinal plant based product preparation

Problem Solving Method:

- Case studies : practical knowledge to develop problem solving ability
- Projects on
- Medicinal plants
- Survey on issues related to Cultivated medicinal plants in Anjangaon region
- Survey on herbicides used by farmers
- Market Survey of Vegetables and Fruits marketed and their nutritional value.



A handwritten signature in blue ink, appearing to read "Dr. Mangesh Dagawal".

Dr Mangesh Dagawal
Associate Professor & Head
Department of Botany
Smt Radhabai Sarda Arts, Commerce & Science College
Anjangaon Surji, Dist. Amravati (MS)

A handwritten signature in blue ink, appearing to read "Dr. Mangesh Dagawal".

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

Experiential learning:

EXPERIENTIAL LEARNING –Hands on for Plant sapling preparation



EXPERIENTIAL LEARNING –Hands on for Plant sapling preparation



EXPERENTIAL LEARNING –Participation in practical



EXPERIENTIAL LEARNING –Chromatography



EXPERIENTIAL LEARNING –Photosynthesis process



EXPERENTIAL LEARNING –Herbarium Preparation



Participative Learning:

PARTICIPATIVE LEARNING –Participation in Seminar



PARTICIPATIVE LEARNING –Participation in Group discussion (GD)



PARTICIPATIVE LEARNING –Participation in Exhibition



PARTICIPATIVE LEARNING –Field Visit



PARTICIPATIVE LEARNING –Industrial / Research Institute Visit



Problem Solving Method:

**SMT RADHABAI SARDA ARTS, COMMERCE AND
SCIENCE COLLEGE, ANJANGAON SURJI DIST
AMRAVATI**

DEPARTMENT OF BOTANY

**UNDER SKILL ENHANCEMENTMODULE
SUMMER 2024**

**PROJECT ON GERMPLASM COLLECTION OF
CROPS / PLANTS**

Submitted by – B.Sc. II (Sem-IV)

Guided by

Dr MJ Dagawal
Shri R L Kulkarni
KuVaishnaviBarabde



**SMT. RADHABAI SARDA ARTS,
COMMERCE AND SCIENCE COLLEGE,
ANJANGAON SURJI,**

DEPARTMENT OF BOTANY

2023-24

B.SC-III SEM-VI

SUMMER 2024

FIELD PROJECT

**TOPIC- BANANA RIPENING CENTER IN
ANJANGAON SURJI TAHSIL- NATURAL
AND ARTIFICIAL RIPENING**

GUIDED BY – DR. MANGESH DAGAWAL

