

SNJB (Jain Gurukul's)

**K.K.H. Abad Arts, S.M.G. Lodha Commerce & S.P.H. Jain Science College
Neminagar, Chandwad-423101, Dist.-Nashik, Maharashtra**



Establishment
27/11/1928

(Affiliated to SavitribaiPhule Pune University) Id. No.PU/NS/AC/015/1970

(02556) Off. 252125 Res.252126 Tel. Fax:02556-252125

• P. O. Box No.: 6 • E-mail : alccchandwad@yahoo.co.in

• Website : www.acschandwadcollege.com

DST-FIST Funded (2018-19)

UGC-NSQF Courses (B.Voc. & CC)

Best College Award by SavitribaiPhule Pune University (2015-16)

1.3.2: Number of courses that include experiential learning through project work/field work/internship during the year

M.Sc.II Botany -Field Visit

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ESTD - 1928

SNJB's
KKHA Ar SMGL Commerce and SPHJ Science College, Chandwad Dist-Nashik,
Maharashtra Pin-423101 India
(Affiliated to Savitribai Phule Pune University, Pune, Maharashtra, India)
Best College Award Recipient (2015-16)
(DST-FIST Funded 2018-19)

NAAC Reaccredited 'B++' Grade with CGPA 2.95 (2019-20)

Phone No. (02556) Off.252125 Res.252126, Tel. Fax: 02556-252125

P.O. Box No.:6 •E-mail: alccchandwad@yahoo.co.in Website: www.acschandwadcollege.com

Dr. Dattatraya N. Shimpi (B.Com, M.PEd., Ph.D.) Senior College Code No. 088
I/C Principal University Id. No. PU/NS/AC/015/1970

Email: shimpi.dnacs@snjb.org, Contact No.: 9689092092

ALJC: 2023/2024/553

Date:23/03/2024

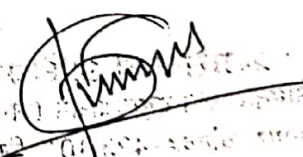
To
The Administrative Officer,
Shri. Neminath Jain Brahmacharyashram, Chandwad
Dist- Nashik.

Sub: To avail permission for the educational tour

Dear Sir,

With reference to the subject cited above and as per the curriculum of Savitribai Phule Pune University, Pune for S. Y. B.Sc, T.Y.B.Sc, M.Sc I & M.Sc II Botany; it is compulsory to visit places of botanical interests (i.e. botanical research institute, biodiversity park and forest). In this regard we have planned two days educational tour for S S. Y. B.Sc, T.Y.B.Sc, M.Sc I & M.Sc II Botany students, on 27th & 28th March 2024 at Matheran & Alibag. Kindly avail the permission and do the needful.

Permission letter of Principal and List of the participating staff and students enclosed herewith.


Yours Faithfully

I/C. PRINCIPAL


K.K.H.A. Arts SMGL Comm.
& S.P.H.J. Science College,
Chandwad, Dist. Nashik - 423 101

To
R. Kachare Principal
Arts College -

No boys possible from

Hostels are participating confirms Dr. Mayur Patil,
from Botany dept.

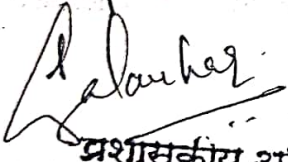
Please ensure that strict discipline
is followed and all compliance are done.

 26/3/2024

P.T.O

R/ Principal

- 1) Ensure Sr. Staff accompanics
- 2) Adequate numbers of Gents & Ladies staff must accompany
- 3) Do not take students near water or on hill tops
- 4) Staff and Students must be in their college uniforms with identity cards
- 5) State Transportation buses to be hired for tour
- 6) One Medical Officer Should accompany
- 7) Written Permission from the concerned competent authorities must be obtained
- 8) Strict discipline to be observed
- 9) Written consent of parents need to be obtained
- 10) Ensure that parents are called at the terminus stop point for taking their children after the tour gets over
- 11) Necessary rules procedures stipulated from time to time by the competent authorities must be followed
- 12) If travel is by train in that case do not allow students to get down on railway stations, to avoid mishaps, e.g. boarding the train while it has already begun etc.



26/03/2025

प्रशासकीय अधिकारी
श्री नेमिनाथ जैन ब्रह्मचर्याश्रम (जैन गुरुकुल)
नेमिनाथ, चांदवड-423 101 जि. नाशिक

List of the Students with participating Teachers

Sr. No.	Name M.Sc - I ✓	Gender
1.	GAIKWAD VAIBHAV PRAKASH	Male
2.	SAGAR BHAGYASHREE RAJENDRA	Female
3.	DEORE SAKSHI PRAMOD	Female
4.	DEORE SAMRUDDHI JAGANNATH	Female
5.	VADNERE KANCHAN GORAKSHNATH	Female
6.	SHIRSATH JAYASHRI SAJAJI	Female
7.	KHAIRNAR ADITI SHANTARAM	Female
8.	GHUGE YOGITA SAMBHAJI	Female
9.	SURYAVANSIII PRIYANKA FAKIRA	Female
10.	SHEWALE RUPALI POPAT	Female
11.	BHALERAO RATNAKAR RAVINDRA	Male
12.	DEORE AASHA GAJANAN	Female
13.	SODE SHWETA SUNI	Female
14.	LANDBALE RUPESH ANANDA	Male

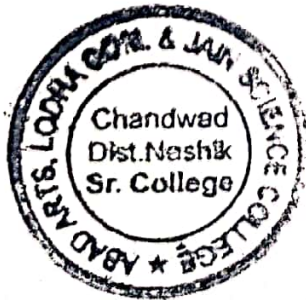
Sr. No.	Name M.Sc - II ✓	Gender
1.	Shinde Jayashri Babaji	Female
2.	Kolhe Rohini Vasant	Female
3.	Thakare Savita Bajirao	Female
4.	Thakare Urmila Dilip	Female
5.	Bairagi Sakshi Shamdas	Female
6.	Bahikar Harshali Murlidhar	Female
7.	Bagul Mayuri Kamalakar	Female
8.	Kotwal Chaitali Sharad	Female
9.	Mapari Megha Anna	Female
10.	Bhoye Ratna Jagan	female
11.	Pawar Rupesh Vijay	male
12.	Suryawanshi Rupali Bhausahab	Female
13.	Kolhe Pratiksha Nanasaheb	Female
14.	Nikam Vaishali Ananda	female


Sr. No.	Name T.Y.B.Sc	Gender
1.	Ms. Priti Vinayak Jamdar	Female
2.	Ms. Komal kailas Khaire	Female
3.	Ms. Achal Bhaskar Wanakhede	Female
4.	Ms. Priyanka Sahebrao Gangurde	Female
5.	Ms. Akshada Dhakararao chindhu	Female
6.	Ms. Mayuri Nivrutti Gangurde	Female

Sr. No.	Name S.Y.B.Sc	Gender
1.	Sathe Bhagyashree Kisan	Female
2.	More Vaishnvi Pravin	Female
3.	Pawar Nikita Sakharam	Female
4.	Pagar Sejal Namdev	Female
5.	Pawar Nikita Dnyaneshwar	Female
6.	Walunj Ramhari Dnyaneshwar	Male
7.	Gangurade Sagar Bajirao	Male
8.	Pawar Samiksha Prakash	Female
9.	Thombare Sanika Bhaurao	Female
10.	Jadhav Prerna Santosh	Female
11.	Kumbharde Anuksha Anil	Female
12.	Mahale Akshada Sahebrao	Female
13.	Jadhav Arati Prakash	Female

14. Akshada kumbharde
15. vaishnav gangurde
16. Aher Tushar
17. vaibhav Nimbalkar.

Sr. No.	Teachers	Gender
1.	Dr. Manoj T. Patil	Male
2.	Dr. Mayur S. Patil	Male
3.	Dr. Swapnil D. Wagh	Male
4.	Dr. Sudin C. Dalave	Male
5.	Mr. Sagar. G. Lokhande	Male
6.	Mr. Navnath V. Pawar	Male
7.	Ms. Bhakti V. Jadhav	Female
8.	Ms. Yogita M. Pawar	Female
9.	Mr. Nilesh D. Shimpi	Male
10.	Mr. Bhushan V. Pathade	Male
11.	Mr. Krushna A. Shinde	Male




V.C. PRINCIPAL
K.K.H.A. Arts SMGL Comm.
& S.P.H.J. Science College,
Chandwad, Dist. Nashik - 423 101

M. Sc II Botany Practical Paper

BOUT 242 Plant Ecology Ecology


(Any 12 Practical, 15th is compulsory)


- 1 Study of phytoplanktons and macrophytes from clean and polluted water bodies
- 2 Estimation of chlorides and alkalinity of the water sample
- 3 Prepare shoot/canopy profile of tree stand along the line transect.
- 4 Remote sensing techniques for vegetation/ plant diversity assessment using satellite imagery and aerial photographs
- 5 Methods for estimating above-ground biomass for carbon pool assessment
- 6 Find out various diversity indices with the help of computer software.
- 7 Find out the Simpson's Index of Dominance.
- 8 Find out the β -diversity, similarity and dissimilarity indices.
- 9 Comparison of stomatal index and pollen fertility of any two plants from polluted and non-polluted areas 1
- 10 Compare protected and unprotected herbaceous stand using community coefficients (similarity indices).
- 11 To find out relationship between two ecological variables using correlation and regression analysis. 112 To estimate dissolved oxygen content in eutrophic and oligotrophic water samples by azide modification of Winkler's method.
- 13 To determine percent soil organic carbon and organic matter in soils of cropland, grassland and forest. 1
- 14 To find out association between important herbaceous species using Chi-square test.
- 15 Visit to different types of ecosystems to understand the species composition and diversity (plateaus/grasslands/forests/wetlands/deserts/mangroves)

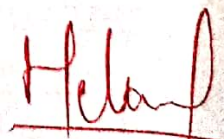
Kolhe Pratiksha Nanasaheb.
Msc II

VISIT

REPORT


Practitioner
Incharge


Examiner


Head of Department.

HEAD
Department of Botany
GMS's K.K.H.A.Arts, S.M.G.L.Commerce
& S.P.H.J.Science College
Chandwad - 423101, Dist.Nashik



At - Matheran
Date - 27 March 2024

On 27 March 2024 department of Botany arranged hill station matheran visit at Native botanical garden. As per the requirement of our syllabus headed by our lectures Mayor Pabli, Wagh sir, Yogita mam, Bhakti mam.

We started our educational trip at the morning, There were around 14 students & four teachers. The objectives of the visit was to get more information about ecosystem and their type.

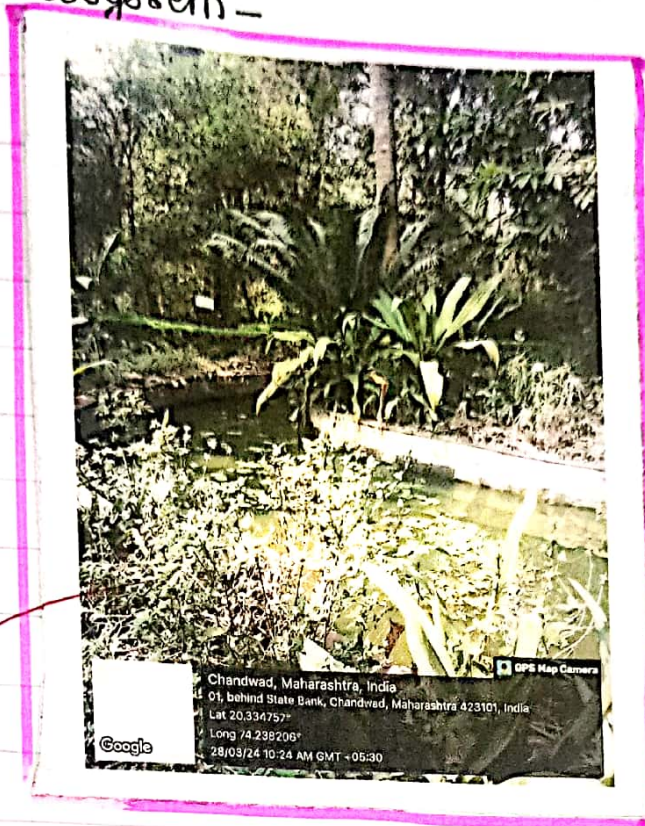
Matheran is hill station, near Mumbai in the west Indian state of Maharashtra. Its known for its mild climate and well preserved colonial architecture. Motor vehicles are banned.

forest ecosystem —



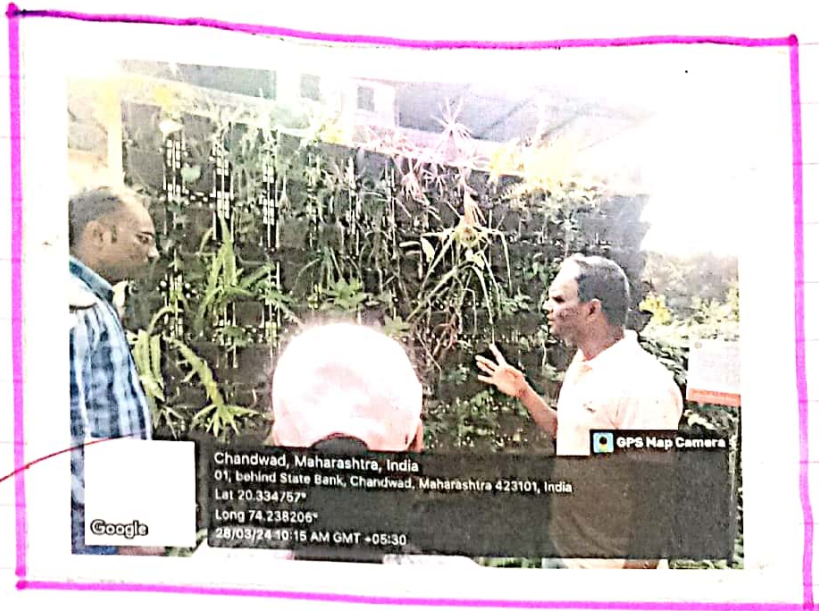
- A forest ecosystem is a functional unit or a system which comprises of soil, trees, insects, animals, birds & man as its interacting
- A forest ecosystem is an ecosystem of forests and resources forests are renewable natural resources.
- Forest consist not only of living (biotic) components like trees, animals, plant & other living things but also of non-living components such as soil water air & land forms.
All of these components together make up a forest ecosystem.

* Wetland ecosystem -



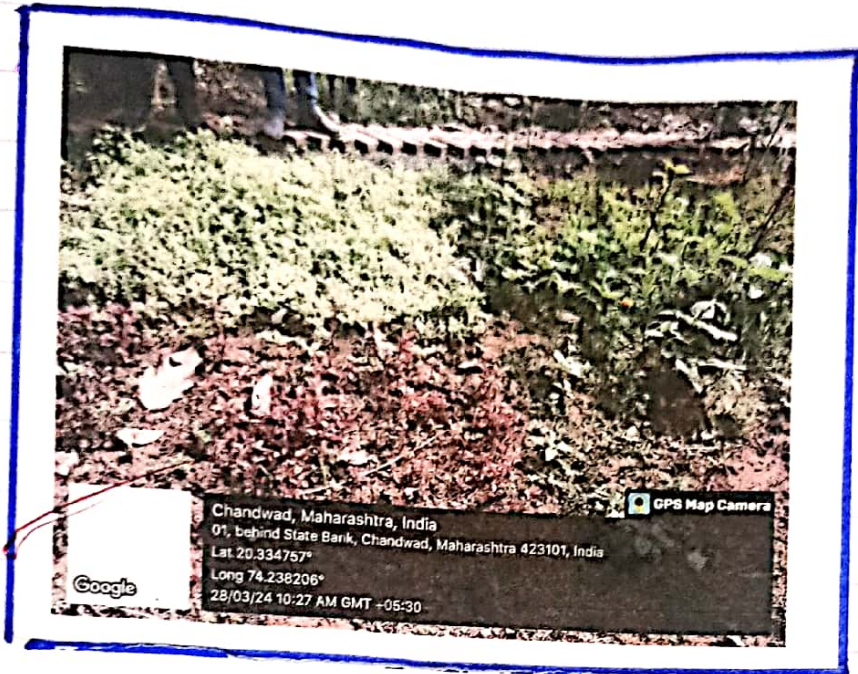
- Wetlands are among the most productive ecosystems in the world, comparable to rain forests and coral reefs. An immense variety of species of microbes, plants, insects, amphibians, reptiles, birds, fish and mammals can be part of a wetland ecosystem.
- Wetlands are those areas where the soil is covered with water or can be present near the ground throughout the year.
- It supports both terrestrial and aquatic species.
- Wetlands are important to global ecosystems & are easily affected by change in climate, soil, and human disturbances.

Cropland ecosystem —



- Croplands are a critical, terrestrial man-made ecosystem.
- Least genetic diversity is a characteristic feature of cropland ecosystem.
- Cropland ecosystem is man-made as men cultivate crop for their nutrition. Thus it is artificial and does not occur naturally.
- Food crop (wheat, maize, Rice)
- Cash crop (sugarcane, Tobacco, cotton)
- Plantation crop (coffee, coconut, Tea)
- Biotic components include plant, animals, decomposers.

Grassland ecosystem -



A grassland is an area where the vegetation is dominated by grasses.

- The grassland biome is made up of large open areas of grasses. They are maintained by grazing animals and frequent fires.
 - Grassland occurs in environments conducive that of taller plants, particularly trees and shrub.
 - Grassland clearly provide the feed base for grazing livestock and the numerous high-quality foods. but such livestock also provide products such as fertilizer, transport, fibre & leather
- ~~such as fertilizer~~
such as fertilizer
04.2024