

## 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](mailto:alccchandwad@yahoo.co.in)

• Website : [www.acschandwadcollege.com](http://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

### SYBSc. -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](mailto:alccchandwad@yahoo.co.in) Website: [www.acschandwadcollege.com](http://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](mailto:shimpi.dnacs@snjb.org), Contact No.: 9689092092

ALJC: 2023/2024/553

Date:23/03/2024

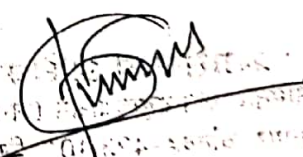
To  
The Administrative Officer,  
Shri. Neminath Jain Brahmacharyashram, Chandwad  
Dist- Nashik.

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 27<sup>th</sup> & 28<sup>th</sup> 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  
Acce College -

No boys possible from

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

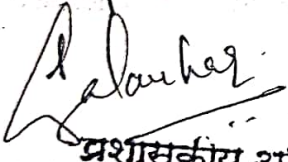
Please ensure that strict discipline  
is followed and all compliance are done.

 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**

<b>Sr. No.</b>	<b>Name M.Sc - I</b> ✓	<b>Gender</b>
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

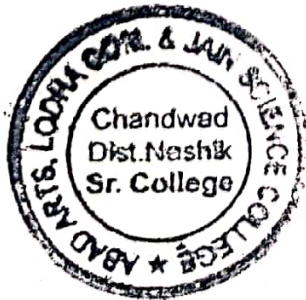
<b>Sr. No.</b>	<b>Name M.Sc - II</b> ✓	<b>Gender</b>
1.	Shinde Jayashri Babaji	Female
2.	Kolhe Rohini Vasant	Female
3.	Thakare Savita Bajirao	Female
4.	Thakare Urmila Dilip	Female
5.	Bairagi Sakshi Shamdas	Female
6.	Bahikar Harshali Murlidhar	Female
7.	Bagul Mayuri Kamalakar	Female
8.	Kotwal Chaitali 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


<b>Sr. No.</b>	<b>Name T.Y.B.Sc</b>	<b>Gender</b>
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 Dhakarrrao chindhu	Female
6.	Ms. Mayuri Nivriddi 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. Ather 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




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




**S.Y.B.Sc. Botany CBCS Pattern Practical  
(Semester IV Paper III) 2020-2021  
BO243: Practical based on BO241 & BO242**

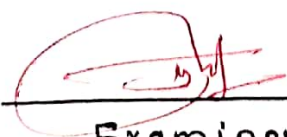
Sr. No.	Title	No. of Practical
<b>Plant Anatomy and Embryology</b>		
1	Study of epidermal tissue system – non-glandular and glandular trichomes, multilayered epidermis, typical stomata (Dicotyledonous and Monocotyledonous).	2
2	Study of mechanical tissues and their distribution in root, stem and leaves.	1
3	Study of normal secondary growth in dicot stem – <i>Annona</i> / <i>Moringa</i> (Double stained temporary preparation).	1
4	Study of anomalous secondary growth in <i>Bignonia</i> and <i>Dracaena</i> stem (Double stained temporary preparation).	1
5	Study of tetrasporangiate anther and types of ovules with the help of permanent slides	1
6	Study of dicot and monocot embryo.	1
<b>Plant Biotechnology</b>		
7	Instruments/equipment used in plant tissue culture laboratory: Principle and working of Autoclave, oven, laminar air flow cabinet, micropipette, culture bottles/tubes with cotton plug	1
8	Preparation & sterilization of MS medium	1
9	Surface sterilization and Inoculation of nodal sector, leaf, anther and maize embryo	2
10	Laboratory cultivation of <i>Spirulina</i>	1
11	Demonstration practical on transgenic crops viz; Bt-Cotton, Golden rice	1
12	Demonstration of principle and working of agarose gel electrophoresis, centrifuge, spectrophotometer	1
13	Visit to plant tissue culture laboratory	1

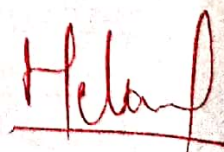
  
**PRINCIPAL**  
 A.K.H.A. Arts, S.M.G.L. Comm.  
 & S.P.H.J. Science College,  
 Chandwad Dist. Nashik-42310

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.



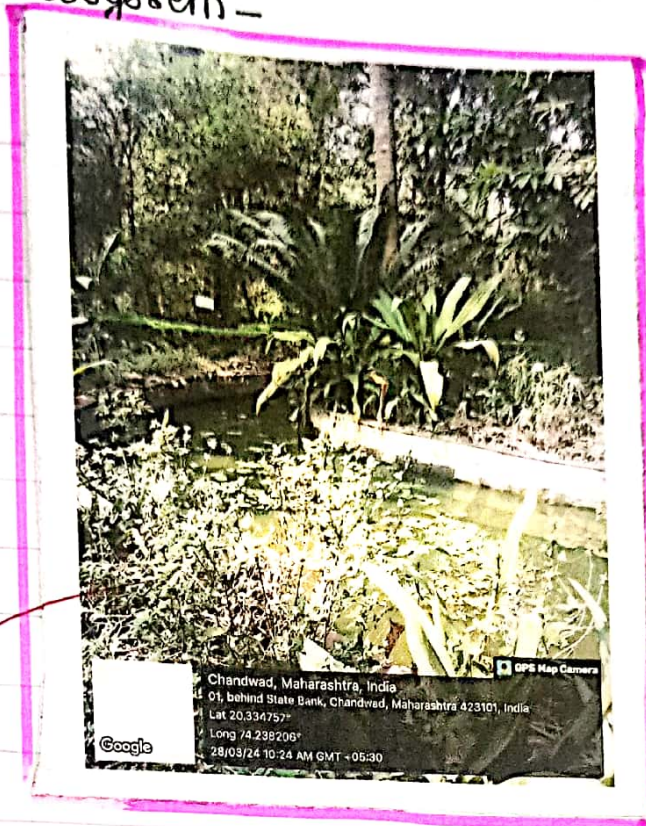
## forest ecosystem —



- 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.

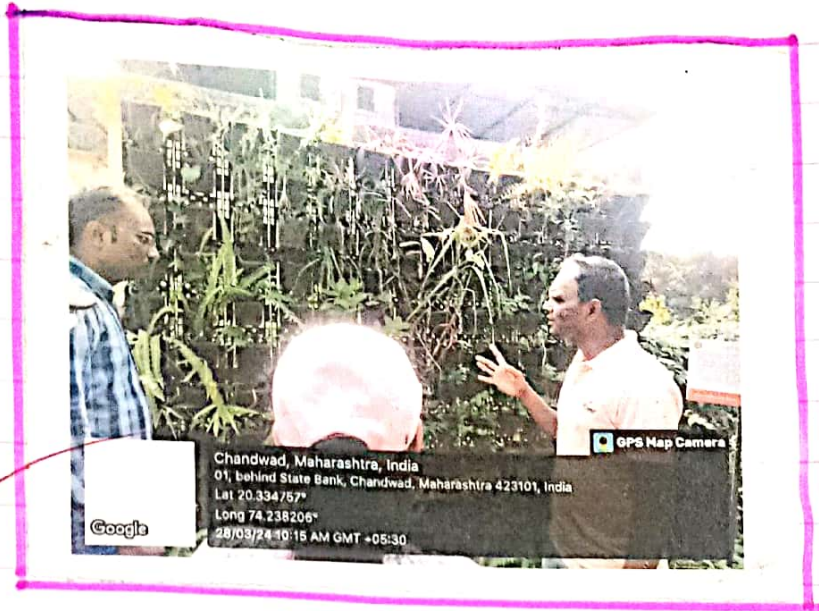


## \* Wetland ecosystem -



- 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.

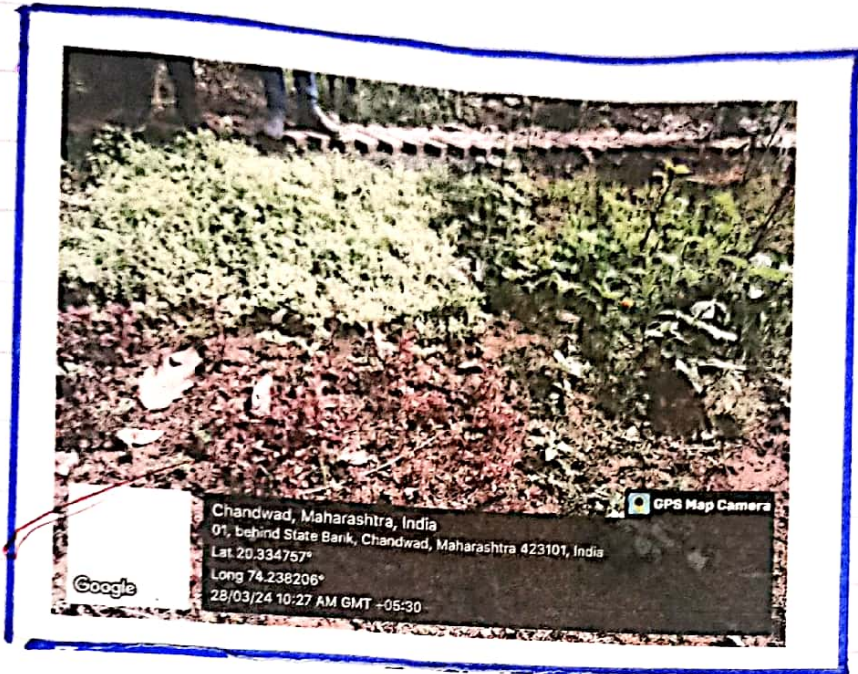
## Cropland ecosystem —



- 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