



Establishment
27/11/1928

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**

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

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• Website : www.acschandwadcollege.com

DST-FIST Funded (2018-19)

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

Best College Award by Savitribai Phule Pune University (2015-16)

List of Documents: Botany M.Sc. I and M.Sc. II Field Visit

Sr. No.	Document Name	Page No.
01	Syllabus Copy: M.Sc. I + M.Sc. II	02-04
Field Visit at Chandigarh		
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BO- 1.5 PRACTICALS BASED ON BO 1.1 AND BO 1.4 (5 Credits)

(Any 24 practicals)

Practicals based on BO 1.1 Bryophytes and Pteridophytes

A. Morphological, anatomical and reproductive studies of Bryophytes:

1. Hepaticopsida: *Astrella*, *Plagiochasma*, *Marchantia*, *Targionia*, *Cyathodium*, *Fossombronia*, *Pallavicinia*, *Riccardia* and *Metzeria*, *Porella* and *Fruillania* (Any six forms) **3P**
2. Anthocerotopsida: *Anthoceros* and *Notothylyus*. **2P**
3. Musci: *Sphagnum*, *Funaria*, *Polytrichum*, *Pogonatum*, *Bryum* (Any four forms) **2P**

B. Morphological, anatomical and reproductive studies of Pteridophytes:

1. Psilopsida: *Psilotum* and *Tmesipteris* (Figure of *Tmesipteris* must be shown) **1P**
2. Lycoposida and Sphenopsida: *Lycopodium*, *Selaginella*, *Equisetum*, *Isoetes* **2P**
3. Pteropsida: *Ophioglossum*, *Angiopteris*, *Osmunda*, *Salvia*, *Azolla*, *Marsilea*, *Lygodium*, *Pteris*, *Adiantum*, *Gleichenia*, *Cheilanthes*, *Blechnum*, *Acrostichum* **4P**
4. Fossil Pteridophytes: Any eight forms (At least one from each group) **2P**

Note: Collection and submission of any eight Pteridophytes and excursion report on studies of Bryophytes and Pteridophyta from Western Ghat is compulsory. Submission of any five photographs of Bryophytes and Pteridophytes form each

Practicals based on BO 1.4 Botanical Techniques (Any 12 practicals)

1. Study of microscopes **1P**
2. Use of flurochromes to visualize specific cell components **1P**
3. Micrometry **2P**
4. Maceration technique **1P**
5. Electrical conductivity and pH measurements **1P**
6. Absorption spectra of BSA/DNA and determination of absorption maxima **2P**
7. Gel filtration **1P**
8. Ouchterlony immunodiffusion technique for testing of antigens and antibodies **1P**
9. Rocket immunoelectrophoresis **1P**
10. Separation of leaf pigments by paper chromatography and TLC **2P**
11. Separation of isozymes by native polyacrylamide gel electrophoresis **2P**
12. Microtomy- Processing, double staining, sectioning **2P**
13. Cytochemical analysis- Nucleus, Golgi bodies, Mitochondria **2P**



BO 2.5 PRACTICAL BASED ON BO 2.1 AND BO 2.2 (5 Credits)
(Any 24 Practicals)

Practicals based on BO 2.1 (Any 12 practicals)

Algae

1. Morphological observations, documentation (description and illustrations) and classification according to Fritsch with reasons of taxa belonging to (At least one example from each order):
 - a. Chlorophyta- Any eight forms, Charophyta - Any two forms 3P
 - b. Phaeophyta - Any five forms 1P
 - c. Rhodophyta - Any five forms 1P
 - d. Cyanophyta- Any five forms 1P
 - e. Minor Groups - Any three forms 1P

Note: Collection tour to any marine/oceanic habitat to collect algae is compulsory

Fungi

1. Preparation of cotton blue, Lactophenol and culture medium - PDA 1P
2. Study of Lichens -Any three forms 1P
3. Study of representative genera belonging to following subdivisions of fungi with respect to vegetative, reproductive structures and classification with reasons according to Ainsworth et al. (1973) (At least one example from each class):
 - a. Myxomycotina -Any three forms 1P
 - b. Mastigomycotina - Any five forms 1P
 - c. Zygomycotina - Any three forms 1P
 - d. Ascomycotina - Any five forms 1P
 - e. Basidiomycotina- Any five forms 1P
 - f. Deuteromycotina - Any five forms 1P

Note: Collection tour to any forest to observe, collect fungi and lichens and submission of ten specimens and excursions report is compulsory

Practicals based on BO 2.2 Cell Biology and Evolution (Any 12 Practicals)

1. Differential centrifugation for isolation of cell fractions- Nuclear fraction 1P
2. Isolation of Chloroplasts to study: 2P
 - a. Hill reaction to measure intactness,
 - b. Chlorophyll estimation
3. Isolation of mitochondria for: 2P
 - a. Estimation of succinic dehydrogenase activity



BO- 3.6 PRACTICALS BASED ON SPECIAL PAPER

BO 3.48 ADVANCED SEED TECHNOLOGY

(Any 24 Practicals)

1. Study of floral biology of crops- cotton/okra, chilly/tomato, soybean/chick pea/ground nut, maize/wheat, sorghum/bajra (4P)
2. Grow Out Test (1P)
3. Study of seed germination (epigeal, hypogeal and viviparous types). (1P)
4. Study of seed germination testing methods (paper, soil and sand). (1P)
5. Preparation of artificial seed- demonstration (1P)
6. Study of physical purity test (1P)
7. Quick viability test (Tz). (1P)
8. Moisture testing by moisture meter and oven method (1P)
9. Sampling, dividing and mixing equipments (1P)
10. Analysis of seed samples for discolouration, abnormalities, fungal structures. (2P)
11. Detection and identification of important seed borne fungi by various detection methods- washing, agar and blotter method (*Alternaria*, *Colletotrichum*, *Fusarium*, *Phoma*, *Microphomina* and *Mucor*). (2P)
12. Detection and identification of seed borne bacteria (1P)
13. Study of important pests of Kharif (rainy) and Rabi (winter) cereals, their life cycle, damage and control measures (any two pests from each). (2P)
14. Study of the life cycle of store grain pests, damage and control measures (any two from each). (2P)
15. Visit to warehouse, storage godown and nearby seed industry. (1P)
16. Compulsory industrial visit to study processing sequences, TPS production (True Potato Seed), R & D fields (PCR, RAPD, RFLP and DNA finger printing) (1P)
- ✓ 17. Collection, submission of crops and storage pests, different seed varieties of any three-crop plants (1P)



SNJB'S

K.K.H.A Arts, S.M.G.L. Comm., & S.P.H.J.Science, Chandwad-423101

Department of Botany

To
Principal,
K.K.H.A Arts, S.M.G.L. Comm., & S.P.H.J.Science
College, Neminagar Chandwad Dist. - Nashik-423101

Subject- To avail permission for the educational tour

Sir,

With reference to the subject cited above, as per the curriculum of Savitribai Phule Pune University Pune for M.Sc II Botany; it is compulsory to visit Biodiversity rich places for study. In this regard we have planned tour of M.Sc students on 06/12/1018 at Rahuri. 23 Students and 05 faculty members are participating in the tour.

List of Staff and Students enclosed herewith for your kind information.
Kindly avail the permission and do the needful.

Thanking You.

Yours Faithfully

M. J. J.

Head,
HEAD

Department of Botany
SNJB's K.K.H.A.Arts & G.L. Commerce
& S.P.H.J. Science College,
Chandwad-423 101 Dist-Nashik

Approved
M. J. J.
5-12-18
Dr Mang Bahi
TQA C



LIST OF STUDENTS & STAFF

Sr No	Name	Gender	Mob No
1	SURYAVANSHI SHRADHHA TUSHAR	FEMALE	8975074155
2	SHIRSATH VIJAYA DEVIDAS	FEMALE	7264083771
3	AHER VRUSHALI ASHOK	FEMALE	9545179956
4	JADHAV BHAKTI VISHNU	FEMALE	8275015011
5	SONAWANE SONALI DILIP	FEMALE	9850242015
6	WAGH GAYATRI BALKRUSHNA	FEMALE	8007010796
7	SHINDE TEJASHRI HIRAMAN	FEMALE	9607099697
8	SHAIKH GULBASHA ASLAM	FEMALE	9922586084
9	SANAP POOJA KASHINATH	FEMALE	9075536447
10	PATIL JAYASHREE NANA	FEMALE	9595501620
11	SABALE SHRAWAN BALU	MALE	9689177633
12	SHINDE MAYUR DNYANESWAR	MALE	7776905401
13	BACHHAV VINAY BALASAHEB	MALE	7058485968
14	ALAI JAGRUTI ASHOK	FEMALE	7767876193
15	CHAUDHARI ASHOK NAMDEV	MALE	7588146687
16	SHIIRSATH VIJAYA DEVIDAS	FEMALE	7264083771
17	KOKANI YOGESH BRIJALAL	MALE	7350927893
18	MOMIN MUSFERA JABEEN MOHAMMED SALEEM	FEMALE	9371672233
19	BHAPKAR SWATI SHANTARAM	FEMALE	9960956074
20	HADIYA FAROOQUI SAEEDUZZAFAR	FEMALE	8087208066
21	GULSANOBER SIRAJ AHMED	FEMALE	9273141441
22	MORANKAR MONALI SANJAY	FEMALE	9561890707
23	BHAMARE PRATIKSHA	FEMALE	9545179956
	FACULTY		
1	SUDIN C. DALAVE	MALE	7709471661
2	KANCHAN S THORAT	FEMALE	9156112837
3	NAVNATH PAWAR	MALE	7774820034
4	SAGAR LOKHANDE	MALE	7218920688
5			

M. S. Dalave
HEAD

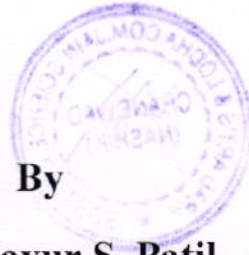
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SNJB's K.K.H.A.Arts, S.M.G.L. Commerce
& S.P.H.J. Science College,
Chandwad-423 101 Dist-Nashik



Excursion Tour Report – Department of Botany

106th Indian Science Congress, Phagwara, Jalandhar, Punjab

01st - 14th January, 2019



By

Prof. Mayur S. Patil

Assistant Professor, Department of Botany,

**SNJB's KKHA Arts', SMGL Commerce & SPHJ Science College,
Chandwad, Nashik**



Schedule of Excursion Tour

1. 106th Indian Science congress, Phagwara, Jalandhar, Punjab
(03rd -07th January, 2019)
2. Shri Harmandir Sahib Golden Temple, Amritsar, Punjab
3. Wagah Border, India-Pakistan International Border, Attari
Post, Punjab
4. City Forest, Chandigarh
5. Zakir Hussain Rose Garden, Chandigarh
6. Himalayan Nature park, Shimla, Himachal Pradesh
7. Mughal Garden, Delhi



Day 1 (01st January, 2019) & Day 2(02nd January,2019)

The students boarded Dadar – Amritsar Pathankot Express train on 01st January, 2019 from the Manmad railway station and reached their much awaited destination to Lovely Professional University, Phagwara, Jalandhar, Punjab with a lot of enthusiasm.

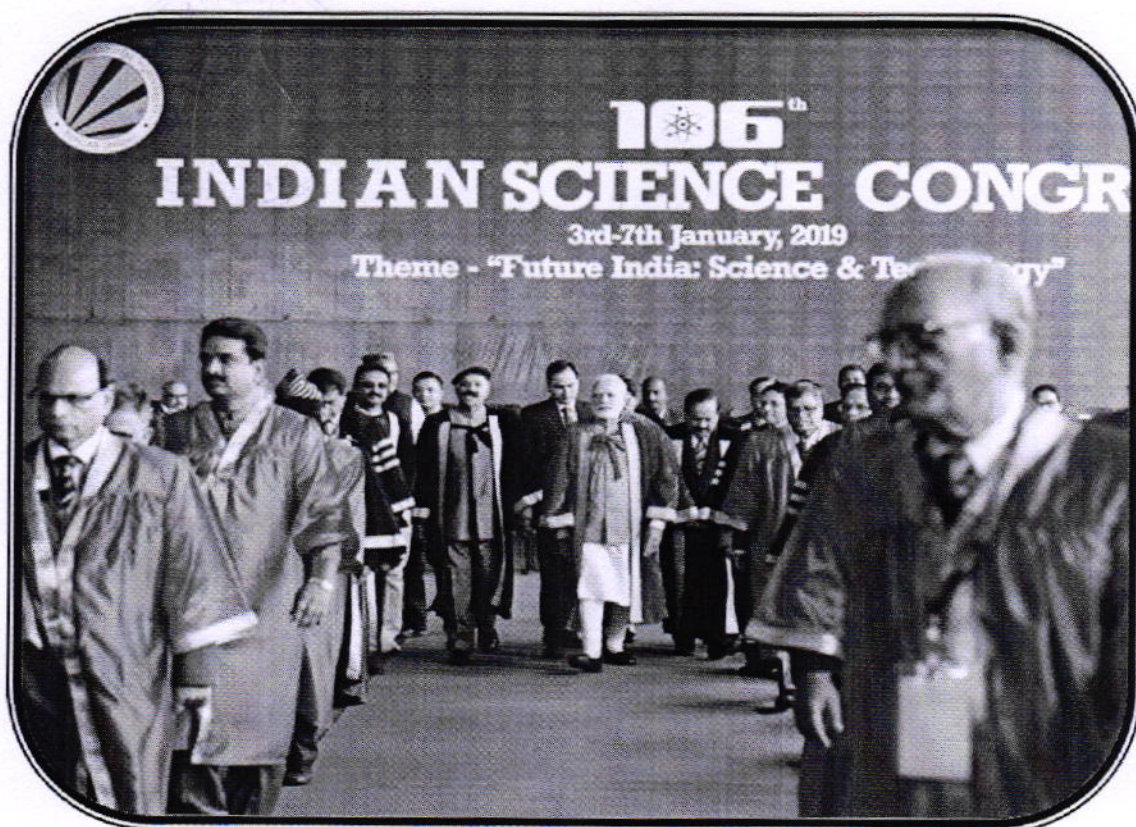


Day 3(03rd January, 2019)

Morning Session:

Grand Inauguration of 106th Indian Science Congress with the auspicious hands of His Excellency Hon'ble Prime Minister Narendra Modi.

Summary:



Prime Minister Narendra Modi kicked off the annual, five-day Indian Science Congress with an inauguration speech. He addressed a gathering of close to 30,000 delegates including many Nobel Laureates, Union Cabinet Ministers of India, science policymakers, administrators, eminent scientists, young men-women researchers & school children from across India & abroad at the Lovely Professional University in Jalandhar, Punjab, the venue of this years' 106th edition of the Congress. During the five day long congress, around 100 plus conferences and events of scientific and technology origin were also be held, where eminent personalities from DRDO, ISRO, DST, AIIMS, UGC, AICTE, and many elite universities of the USA, UK, India and other countries were participated. Union



Cabinet ministers including Science and Technology Minister Dr. Harsh Vardhan and Textile Minister Smriti Irani also attended the event.

The General President of the Indian Science Congress Association, Dr Manoj Kumar Chakrabarti opened the inauguration speeches by introducing the senior members of the ISCA, Union Minister for Science and Technology Dr Harsh Vardhan and Prime Minister Narendra Modi.

Dr Chakrabarti invited the Union minister for Science and Technology, Dr. Harsh Vardhan, to address the young and eager audience.

Living in the "Golden Period" for SciTech

Dr Harsh Vardhan shared that India is currently enjoying the "Golden period" in Indian science under PM Modi's guidance. "With all the advancements we have seen in the different areas of science today, it is clear that we are comparable to the best in the world," Dr Vardhan said.

"All the missions and initiatives that have been seen under his leadership are a result of planning, of which the science and technology community is a crucial part. I would like to thank each one of you – all the members of the scientific community in India – for carrying us through all the progress we have seen under the Hon'ble Prime Minister."

Brain drain to 'brain gain'

PM Modi opened his speech wishing everyone a happy new year and said that it was a good time to look back at India's legacy in science and technology.

"The Indian Science Congress has a rich legacy.... and we continue to learn from their commitment and dedication," the PM said, speaking of scientists who began their stellar careers in India. "Birbal Sahani, Hargobind Khorana, Kalpana Chawla... We have contributed in a big way to scientific knowledge across the world." Modi also recalled former PM Atal Bihari Vajpayee's acknowledgement of science and technology during his speech at Pokhran. "It is now time to take a step forward.. the slogan now becomes Jai Jawan, Jai Kisan, Jai Vigyan, Jai Anusandhaan," said PM.

Pioneering SciTech in India

More incubators have been established in the last 4 years for startups than the 40 years that came before that, according to Modi, speaking about the massive boost in innovative science and tech startups in recent years.

"Industry must now help startups with mentorship and guidance...Bringing big data, AI and blockchain to solve India's biggest challenges – healthcare, agriculture and developmental needs can only be done by our innovative scientists



and engineers." This is an important goal for India's immediate future, Modi said.

Space and Satellites

"By 2022, the mission to send three Indians to space is underway,' Modi said proudly. "ISRO has tested the crew module and escape system. I have no doubt that our scientists will bring success to the mission, and at the planned time," the PM said, speaking of the Gaganyaan mission.

SciTech education needs to be redefined

The vast majority of students in the country go to state universities, where the quality of research really needs to improve. This is something the HRD Ministry and we are addressing, the PM said.

A new vision

India needs a new and ambitious plan for the road ahead. This is the prime objective of the PM's Science Technology and Innovation Council (PM-STIAC). The PM-STIAC will call on scientist, engineers, innovators, educators and other professionals to advise on how we can meet our ambitions for a new future and a new India.

"With vivid imaginations and consistent effort, the forces of the universe can be made to work for an inspired mind. How do we fire up the minds of the Indian youth who are the minds of cutting-edge research?" asked Modi as he closed his inauguration address quoting Dr A P J Abdul Kalam. "India is teeming with a new generation of creative and confident minds...The government is committed to providing them with an enabling environment," PM concluded.



Afternoon Session:

Lecture of Nobel Laureates

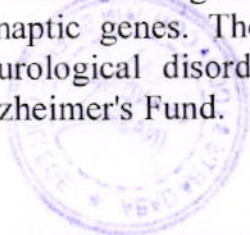
Speaker: Prof. Thomas Sudof

Introduction: A German-American biochemist known for his study of synaptic transmission. Currently, he is a professor in the School of Medicine in the Department of Molecular and Cellular Physiology, and by courtesy in Neurology, and in Psychiatry and Behavioral Sciences at Stanford University who has been awarded the 2013 Nobel Prize in Physiology or Medicine for work on vesicle trafficking.

Research Summary:

An influential contribution of Prof. Thomas Sudhof is on synapse formation and specifications. Prof. Sudhof discovered a number of key molecules in this process such as neurexins, present on presynaptic neurons, and neuroligins, present on postsynaptic neurons, that come together to form a physical protein bridge across the synapse. The diversity in types of neurexins and neuroligins allows for a variety of unique binding opportunities between neurons and impart specificity to synaptic connections. Additionally he also discovered or elucidated the important functions of SynCAM, Latrophilins etc. in synapse formation. In additional studies, Prof. Sudhof identified mutations in these proteins as a factor in inherited autism. Prof. Sudhof is striving to elucidate the mechanism by which neurexins and neuroligins locate each other to form the synapse, their transcriptional regulation, and control of their variability.

Prof. Thomas Sudhof currently continues his work on synapse formation, maintenance as well as synaptic releases in his laboratory at Stanford University. Additionally, together with Dr. Marius Wernig at Stanford University, Prof. Sudhof developed induced neuronal cell technology where they can use human neuronal cells derived from patients or genetically engineered with defined mutations that linked to neuropsychiatric disorders or neurodevelopment disorders. Prof. Sudhof's research has not only given the scientific community a great understanding of the processes underlying synaptic transmission and synapse formation, but has also advanced medical knowledge of mechanisms behind poorly understood diseases such as Alzheimer's, Schizophrenia, and Autism. He is currently working with a diverse group of researchers at the Howard Hughes Medical Institute to develop mouse models for mutants of synaptic genes. The project aims to drastically advance our understanding of neurological disorders. He also serves on the Research Consortium of Cure Alzheimer's Fund.



Speaker: Prof. Avram Hershko

Introduction: A Hungarian born Israeli biochemist and Nobel Laureate in Chemistry who has been awarded the 2004 Nobel Prize in ubiquitin-mediated protein degradation.

Research Summary:

The ubiquitin-proteasome pathway has a critical role in maintaining the homeostasis of cells and is believed to be involved in the development and progression of diseases such as cancer, muscular and neurological diseases, and immune and inflammatory responses. His contributions to science directly helped cure one of his long-time friends of cancer.

Ubiquitin-mediated degradation of positively or negatively acting regulatory proteins is involved in a variety of cellular processes such as the control of cell division, signal transduction, transcriptional regulation, immune and inflammatory responses, embryonic development, apoptosis and circadian clocks, to mention but a few. The involvement of malfunction of ubiquitin mediated processes in diseases such as certain cancers, and the therapeutic implications of this knowledge, are also beginning to emerge.



Prof. Avram Hershko



Prof. Thomas Sudof



Day 4 (04th January, 2019)

Morning session:

Children's Science Congress, LPU Campus

Summary:

Rashtriya Kishore Vaigyanik Sammelan (Children's Science Congress-2019) is an important part of Indian Science Congress (ISC). Since its inception, it has proved to be a unique event with a very clear focus on raising the bar of research and innovation in science in our country. The target group of 10-17 years of children makes it more relevant as they will carry forward the spark of taking innovation and research in science to a next level. The main objective of the Rashtriya Kishore Vaigyanik Sammelan (Children's Science Congress - 2019) is to provide a platform to the budding scientists to showcase their research work and projects being developed by them. It also motivates the young and talented children to work in the field of science and technology and make a successful career in the same along-with contributing in solving the problems of our nation.

Rashtriya Kishore Vaigyanik Sammelan (Children's Science Congress-2019) encourages a sense of discovery among the students as it gives courage to the participants to raise a question on different aspects of the progress. The event consists of invited talks by renowned scientists and various competitions such as science exhibitions, scientific quizzes which will further enhance the intellect of the students. Workshops also conducted to give the students hands on experience. The projects finalized by DST will be showcased and students will have the opportunity to listen and interact with the Young Scientists and Nobel Laureates.



Afternoon Session:

Dr. V. Puri Memorial Award Lecture

Speaker: Prof. Shirang Ramchandra Yadav

Introduction: Renowned Taxonomist in the field of Botany. Currently working as a 'Honorary Fellow of National Science Academy', Department of Botany, Shivaji University, Kolhapur, Maharashtra. He is a pioneer in country's first lead botanical garden.

Research Summary:

Role of Taxonomy and Taxonomist in 21st Century



Day 5 (05th January, 2019)

Morning session:

Pride of India - Expo

Summary: Other major attraction of ISC-2019 was 'Pride of India' Expo which was organized separately under six gigantic stalls specially raised at LPU Campus. Exhibition organized to popularize science amongst the youth to further prepare brilliant scientists and innovators of tomorrow. Major exhibitors include CSIR, ISRO, DAE, ICMR, DST, DRDO, ICAR and Ministry of Earth Sciences. Students visited to various stalls and got the information about current research of the institutions.

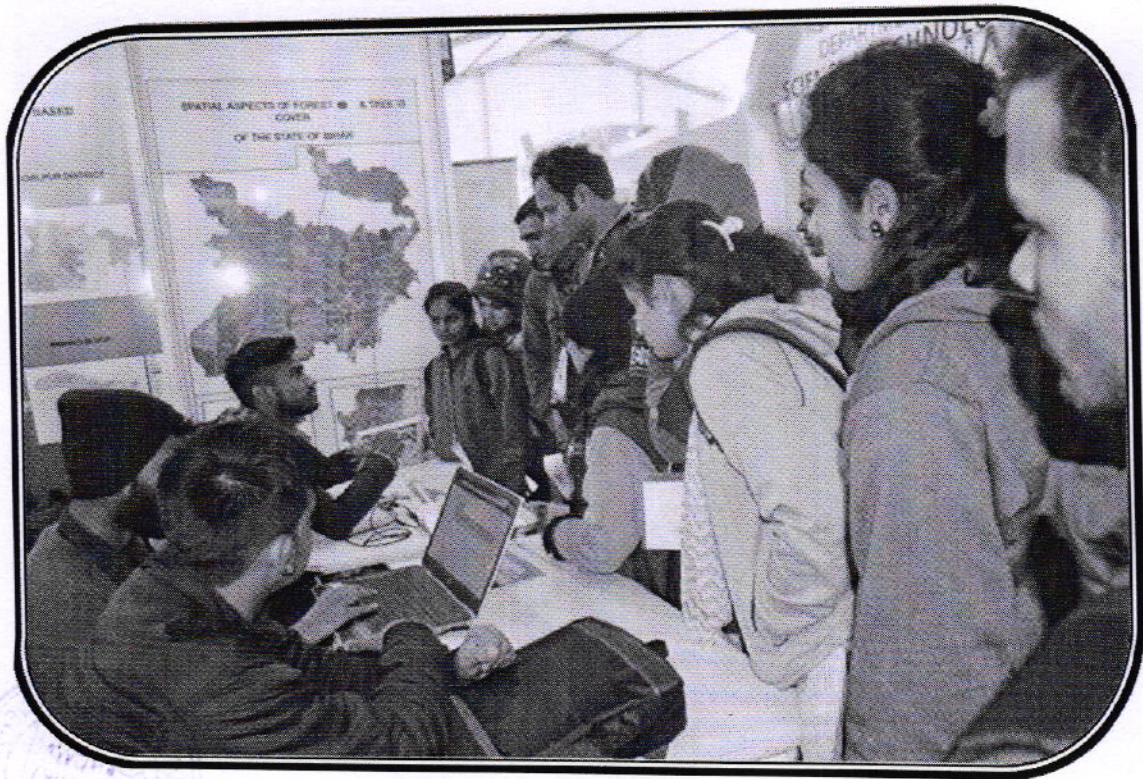


CSIR





Department of Science and Technology



Ministry of Earth Sciences

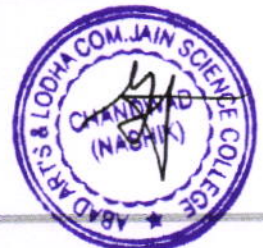




NMDC



ISRO





ICAR



ICMR



Afternoon Session:

Women's Science Congress

Summary:



Textiles Minister of India Smriti Irani inaugurated Women Science Congress (WSC)-2019 at Shanti Devi Mittal Auditorium of the University. Addressing a large number of women scientists, educationists, delegates and students, Minister Irani shared: "I have come to join this largest conclave only as a female and not as a Minister. Like many renowned women-scientists of India and the world, more and more women should knock & open new doors to enter the world of science, engineering and creation." She asked all women to empower themselves and to step forward for abolishing gender gap. Lamenting that the percentage of female scientists among total scientists of the world is far less, Minister Irani shared that it counts female scientists as a largest minority. She upheld it as a great challenge to women. She invoked all at the WSC to end gender prejudices and to establish gender parity. Illustrating by taking example of providing a doll to daughter and mechanical devices like car to a son in their early days of life, Minister Irani asked all parents especially to bring an end to such biases. She also pondered on digital India, online education and more for exponential growth of girls. Minister Irani



also implored all at the helm of affairs of ISC to provide translated best of science journals and related science studies to the middle and high school level students, in their preferred languages, so that they may cherish a love for science right from their early school days. She also congratulated LPU Chancellor Ashok Mittal and admired LPU Management for creating vibrancy at the campus.

She also launched huge robotic structure 'Metal Magna' at main entrance to LPU to make the event memorable for all. Prepared out of scrap by LPU engineering students; the robot weighs up to 30 ton, is 30 feet tall, with light in eyes, and LED display. On this occasion WSC Souvenir was also released. Also present on the occasion were General President Dr Manoj Kumar Chakrabarti, General Secretary (Scientific Activities) Prof. P.P. Mathur, LPU Chancellor Ashok Mittal, General President Chosen for ISC-2020 Prof. Vijay Laxmi Saxena, General Secretary (Membership Affairs) Prof. Gangadhar, and Dr Namisha Gupta, Scientist F, KIRAN Division, Department of Science and Technology. Two-Day WSC-2019 is showcasing the contribution of women in Science, Technology and the Society. Here, renowned women scientists and leaders from Government, academia and industry who are decision makers are to deliver lectures and participate in panel discussions in the second phase of the WSC.



Day 6 (06th January, 2019)

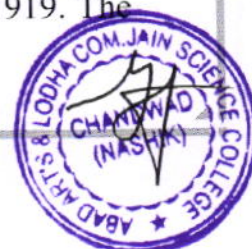
**Visit to Golden Temple, Amritsar & Wagah Border, India-Pakistan
International Border, Attari post, Punjab**



Summary:

The tour to Amritsar, Punjab was organized for students aimed at apprising the students with the culture and history of Punjab. The trip covered landmarks in Amritsar relevant to its culture and the independence movement of India at Attari post, Wagah Border, the international border of India and Pakistan.

The day entailed a visit to the Golden Temple. Students got to witness the mesmerizing appearance and the rich history of the temple, and were also familiarized with the religious importance of the Guru Granth Sahib, the holy book of the Sikhs. This was followed by a visit to Jallianwala Bagh. Jallianwala Bagh, a public garden in Amritsar, houses a memorial of national importance; established in 1951 by the Government of India to commemorate the massacre of peaceful celebrators, including unarmed women and children, by the British occupying forces on the occasion of the Punjabi New Year on April 13, 1919. The



students got a vivid narration of the open fire at the order of General Dyer on an unarmed crowd assembled in the park in 1919. The students also witnessed the beating retreat ceremony at the Wagah Border. The ceremony of the flag lowering in the evening conducted by Indian Border Security Force (BSF) and Pakistan Rangers (PR) at the border was indeed mesmerizing.



Day 7 (07th January, 2019)

Quiz gallery on Atmospheric and Ocean Science & Technology, conducted by Ministry of Earth Sciences, Government of India

Summary:

The students were participated in the Quiz gallery on Atmospheric and Ocean Sciences & technology conducted by ministry of earth sciences, government of India. The faculty members were also participated in Quiz. And all the 15 students and 3 faculty members honored with the certificate of excellence secured with above 60% score.

Interaction with scientists of Bharati: Antarctic Research Station Commissioned by India, Larsemann Hills; Prydz Bay, Antarctica

Summary:

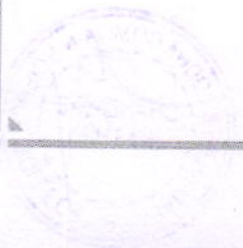


The students interacted with the scientists of Bharati : Antarctic Research Station Commissioned by India. During the interaction Students curiously interacted on Human activity in Antarctica, Polar



science, environmental balance. Students also discussed with scientists on floating forests of *Macrocystis* and *Durvillaea*.

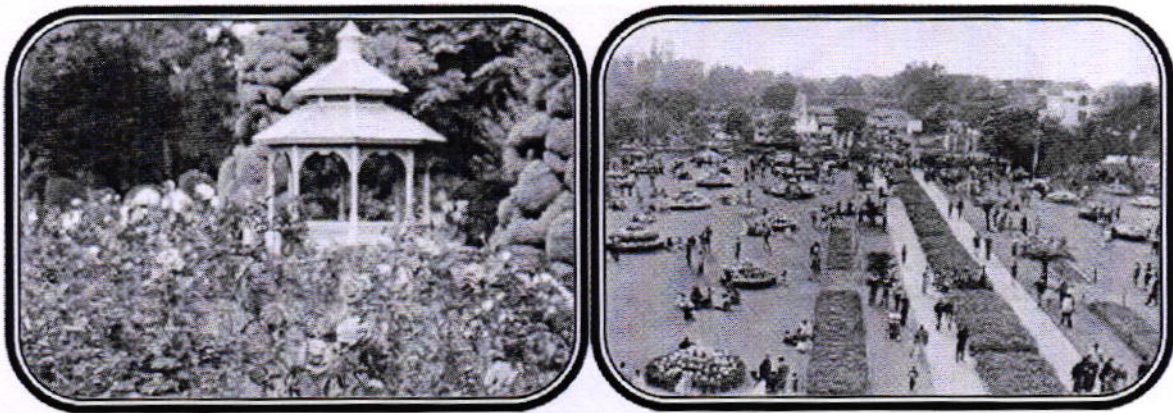
Valedictory function of 106th Indian Science Congress



Day 8 (08th January, 2019)

Zakir Hussain Rose Garden, Chandigarh

Summary:



Zakir Hussain Rose Garden, is a botanical garden in Chandigarh, India and spread over 30 acres (120,000 m²) of land, with 50,000 rose-bushes of 1600 different species. Named after India's former president, Zakir Hussain and created in 1967 under the guidance of Dr Dr M.S.Randhawa, Chandigarh's first chief commissioner, the garden has the distinction of being Asia's largest. The garden has not only roses, but also trees of medicinal value. Some of the medicinal plants that can be spotted here are bel, bahera, harar, camphor and yellow gulmohar. The rose plants have been planted in carved-out lawns and flower beds.

Apart from serving as a host of other events, the Zakir Rose Garden serves as the venue for hosting an annual rose festival called *Rose Festival*, a major cultural event in Chandigarh during February or March.



Day 9 (09th January, 2019)

Sukhna City Forest, Chandigarh

Summary:



It spread over 100 hectares of land and being part of the Reserve Forest Area of Chandigarh near Sukhna Lake surrounded by lush greenery, dense vegetation and trees. It has a long walk away, jogging trails, nature trails, shallow water bodies, rain shelter, meditation hut, open-air gym, Selfie point, children's park and visitors' shed to sit & breath in fresh natural air. The animal species we can spot there are including Sambar, nilgai (blue bull), jungle fowls, jungle cats, porcupine and many more and Bird species like Rose-Ringed Parakeet, Red-Wattled Lapwing, Brown-Capped Pygmy Woodpecker, Jungle Babbler, Oriental Pied Hornbill, Jungle Owlet, Spot-Billed Duck, Spotted Dove, White-Breasted Water hen, Indian Peafowl, Black Drongo, Indian Grey Hornbill, Pied Cuckoo, Red Jungle Fowl, Red-Vented Bulbul. Forest has been richly planted with almost 500 samplings of Palash Tree. Trees, living and carved, are the centrepiece of the park, says director of environment Santosh Kumar. There is miniature



furniture carved out of trees, and eye-catching art work on a big trunk. “We plan to carve three or four more dead trees,” said a forest officer.



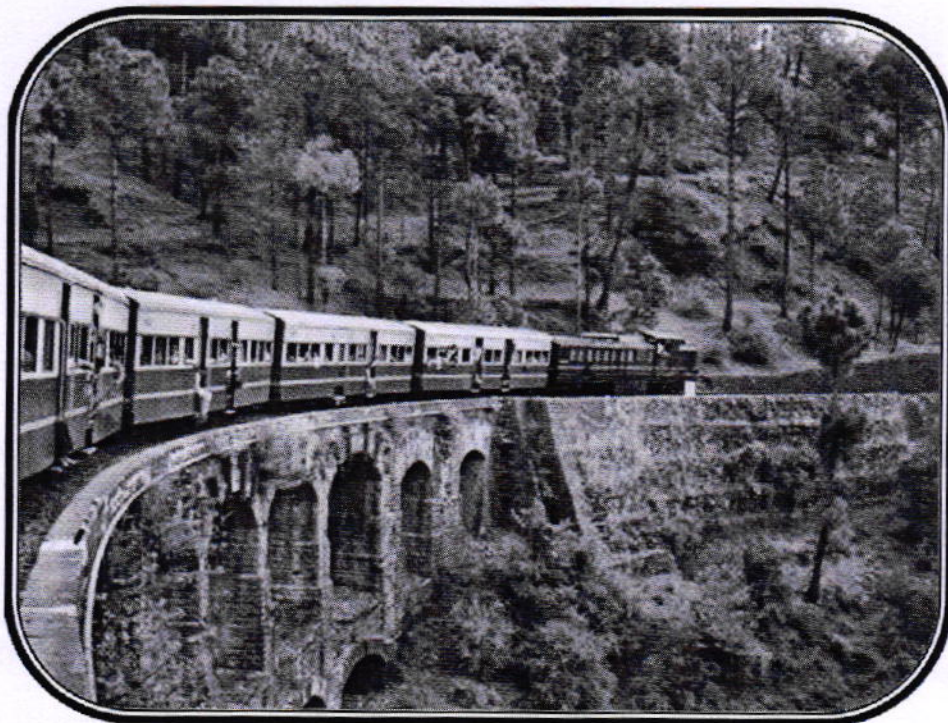
A dirt track leads you to the forest, which has more flecks of brown than green, and plenty of cannabis. The forest officer explains, “There are around 350 dead trees in this forest. We selected this area as we didn’t want to cut any trees to make a track. Over time, we will remove the dead wood and plant thrice the number of saplings,” said the officer, adding that this part of forest will turn lush green in three years. The forest is a wild-life habitat, and the track circles it in a way so as not to disturb the animals. “We made sure there is no restriction on the movement of animals due to this project,” said the officer. The forest has a wide variety of ornamental and fruit bearing trees. The colourful amaltas and muskat trees cohabit with mango and bamboo groves, tall eucalyptus and bushy curry leaf trees. There are also kikar, peepul, palm, and shehtoot trees.



Day 10 (10th January, 2019)

Journey to Shimla, Himachal Pradesh

On the 10th day we left Chandigarh early morning and started for Shimla, Queen of Hills, the Capital and largest city of Northern Indian state, Himachal Pradesh, by the most amazing Toy train.



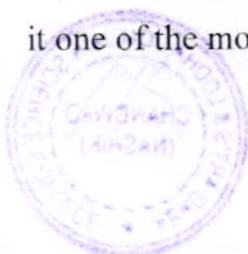
Day 11 (11th January, 2019)

Green Valley, Shimla

Summary:



The Green Valley is a beautiful and breathtaking mountain range that falls on the way to Kufri from Shimla. This spectacular valley is God's gift to the wonderful and charming city of Shimla and is every person's answered prayer to being able to find a place bereft of pollution, constant traffic jams and incessant noise and din. The greenery and beauty of this place is so mesmerizing that it make the people forget everything else and simply bask in the sheer joy of being in nature's lap. The Green Valley is surrounded by verdant hills on all sides that are covered with thick forests of pine and deodar. It is not uncommon to sight some Yaks wandering and grazing around in the valley. The Green Valley is a region that oozes beauty, magnificence and splendor; and hence, people love this place to enjoy the lush green environs. The scenic beauty and elegance of this valley make it one of the most beautiful all across the country.



Himalayan Nature Park, Shimla

Summary:



The main vegetation of the Nature Park comprises Fir- Spruce and Oak formations with scattered presence of Deodar-Blue Pine-Holly clusters. The area remains under snow for about three months from late December to March. The spring heralds the sprouting of many herbaceous species including primulas, potentillas, geraniums, balsams, and ground orchids that continue to bloom in succession till September adding much colour to the verdant surroundings. Walkways in the Nature Park help the visitors to appreciate Nature in its most serene self. While inside the Nature Park, one can also enjoy, on a clear day, a breathtaking view of the entire range of Himalaya's snow clad peaks.

The natural habitat of the Nature Park has been used to house selected Himalayan animal species primarily for the purpose of education of visitors. However, the animal enclosures here are big enough to provide opportunity to the wild animals to be in near natural habitat.

Along with the awesome memories we get back to Chandigarh to travel for Delhi.



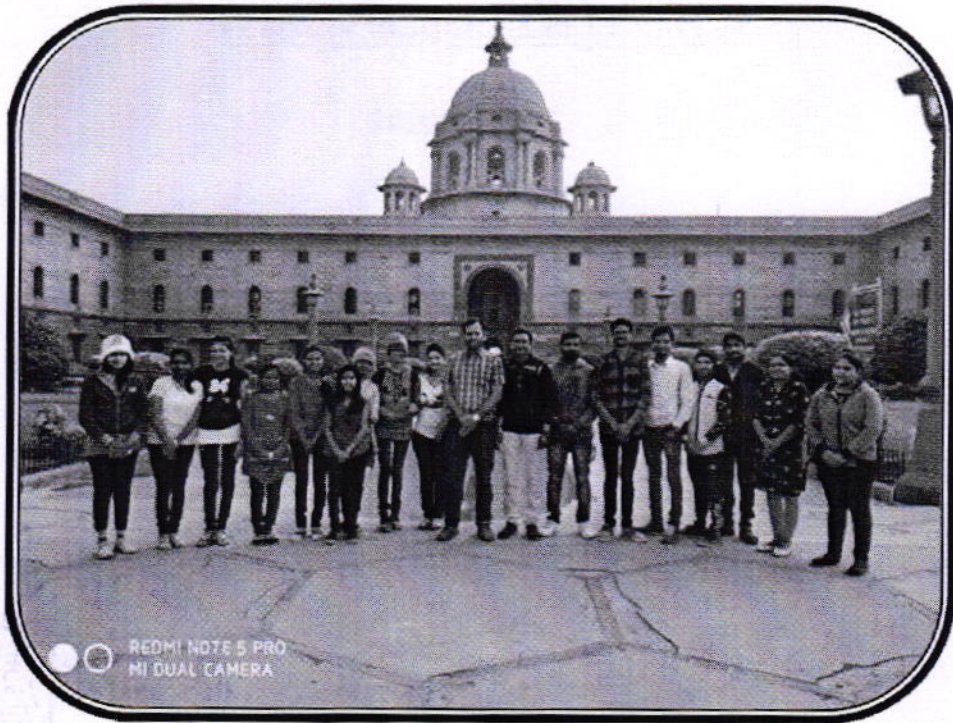
Day 12 (12th January, 2019)

New Delhi

Summary:

The students visited Red Fort , Central secretariat, Rashtrapati Bhavan, Raj Path and India Gate.



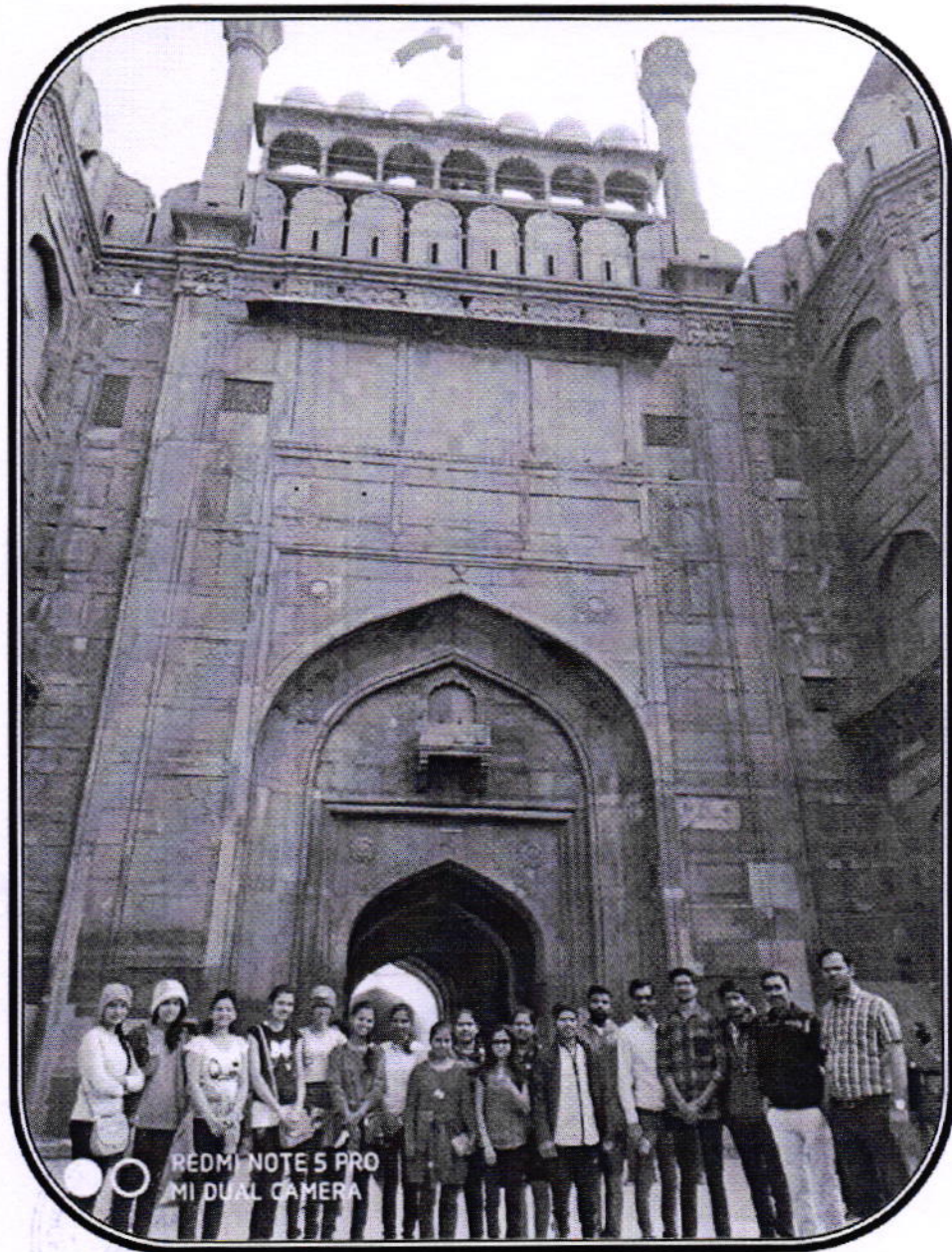


Central Secretariat, North Region, New Delhi



Raj Bhavan, New Delhi





Lal Killa, New Delhi



Day 13 (13th January, 2019)

Return Journey to Chandwad, Nashik



Shri Neminath Jain Brahmacharyashram (Jain Gurukul's)



स्थापना
१७/११/१९२८

**KARMVEER KESHAVLALJI HAKACHANDJI ABAD ARTS,
SHRIMAN MOTILALJI GIRIDHARILALJI LODHA COMMERCE & SHRIMAN P. H. JAIN SCIENCE (SR.)
AND SHRIMAN PEMRAJAJI DALICHANDJI SURANA ARTS, COMMERCE & SCIENCE (JR.) COLLEGE**

NEMINAGAR, CHANDWAD - 423 101 (DIST. NASHIK)

☎ : (02556) Off. 252125 Tele Fax : (02556) 252125
P. O. Box No. 6 E-mail : alccchandwad@yahoo.co.in

Junior College Code No. 13.01.002
Senior College Code No. 088

SNJB

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

Website : acschandwadcollege.com (NAAC - RE-ACCREDITED - 'B')

Best College Award - 2015-16 of Savitribai Phule Pune University, Pune

Dr. G. H. Jain

Principal

M.Sc., A.D.C.S.A & A, Ph.D.

Member - B.O.S. (Physics) University of Pune

Outward No. : *ALJC/2018-19*

Date : *05/12/2018*

To
Hon. Administrative Officer,
Shree Neminath Jain Brahmacharyashram's,
College, Neminagar, Chandwad Dist. - Nashik-423101

Subject- To avail permission for the educational tour

Sir,

With reference to the subject cited above, as per the curriculum of Savitribai Phule Pune University Pune for M.Sc II Botany; it is compulsory to visit Biodiversity rich places for study. In this regard we have planned tour of M.Sc II students On 06/12/2018 Rahuri . 23 Students and 05 faculty members are participating in the tour.

List of Staff and Students enclosed herewith for your kind information.
Kindly avail the permission and do the needful.

Thanking You.

Handwritten signature and date 9/12/18

Yours Faithfully

PRINCIPAL

K.K.H.A. Arts SMGL Comm. & SPHU
Science (Senior) & S.P.D.S. Arts,
Comm. & Science (Junior) College,
Chandwad, Dist. Nashik - 423 101



LIST OF STUDENTS & STAFF

Sr No	Name	Gender	Mob No
1	SURYAVANSHI SHRADHHA TUSHAR	FEMALE	8975074155
2	SHIRSATH VIJAYA DEVIDAS	FEMALE	7264083771
3	AHER VRUSHALI ASHOK	FEMALE	9545179956
4	JADHAV BHAKTI VISHNU	FEMALE	8275015011
5	SONAWANE SONALI DILIP	FEMALE	9850242015
6	WAGH GAYATRI BALKRUSHNA	FEMALE	8007010796
7	SHINDE TEJASHRI HIRAMAN	FEMALE	9607099697
8	SHAIKH GULBASHA ASLAM	FEMALE	9922586084
9	SANAP POOJA KASHINATH	FEMALE	9075536447
10	PATIL JAYASHREE NANA	FEMALE	9595501620
11	SABALE SHRAWAN BALU	MALE	9689177633
12	SHINDE MAYUR DNYANESWAR	MALE	7776905401
13	BACHHAV VINAY BALASAHEB	MALE	7058485968
14	ALAI JAGRUTI ASHOK	FEMALE	7767876193
15	CHAUDHARI ASHOK NAMDEV	MALE	7588146687
16	SHIIRSATH VIJAYA DEVIDAS	FEMALE	7264083771
17	KOKANI YOGESH BRIJALAL	MALE	7350927893
18	MOMIN MUSFERA JABEEN MOHAMMED SALEEM	FEMALE	9371672233
19	BHAPKAR SWATI SHANTARAM	FEMALE	9960956074
20	HADIYA FAROOQUI SAEEDUZZAFAR	FEMALE	8087208066
21	GULSANOBER SIRAJ AHMED	FEMALE	9273141441
22	MORANKAR MONALI SANJAY	FEMALE	9561890707
23	BHAMARE PRATIKSHA	FEMALE	9545179956
	FACULTY		
1	SUDIN C. DALAVE	MALE	7709471661
2	KANCHAN S THORAT	FEMALE	9156112837
3	NAVNATH PAWAR	MALE	7774820034
4	SAGAR LOKHANDE	MALE	7218920688
5			

M. D. D.
HEAD

Department of Botany
SNJB's K.K.H.A.Arts, S.M.G.L. Commerce
& S.P.H.J. Science College,
Chandwad-423 101 Dist-Nashik



Visit Report



As per curriculum of "Savitribai Phule Pune University, Pune" our Department arranged one day study tour.

"SEED PROCESSING TECHNOLOGY" & its scope and Importance at Mahatma Phule Krishi Vidyapith, Rahuri on 6th Dec 2018. There were 4 faculty members participated with us.

We started our tour journey at 8.00 am from Bhairavnath hotel in Chandwad, there were 20 students and 4 teachers staff of our Department namely,

- 1) Dr. Sudin Dalve.
- 2) Mrs. Kaushali Thorat
- 3) Mr. Naunath Pawar
- 4) Mr. Sagar Lokhande.

Firstly we visited was seed processing and storage technique Mr. Dalve sir tell about the general processing treatment like separation, grading etc. we seen the air screen cleaner and its working and significance.

Then we see the packing processing we seen gravity separator, seed grader and actual processing of packing.





Then we visit to 2nd see the seed storage and seed entomology Laboratory, a mam tell us about the pest, which of grain insect, wevils and their host structure and we will treatment. then to kill and protect physical purity of Seed.

on the next we visited physical purity and germination index of seed Laboratory. there is a junior scientist. he was give the information about to how to maintain physical and genetic purity of seed he also tell us about the Seed Act 1966. It's manipulation and regrades. the also tell about the seed village concept and how to give up farmers rights of seed manipulation and marketing value of seed.

On the next, we taking lunch break teachers and friend's, then on the next we learn about the food processing unit the mam tell us how to made hygienic biscuit from wheat and nagali,

on the next we visited "polyhouse Technology" we seen the polyhouse of flowers ; Brinjral, decorative and ornamental plants etc. then we visited juice and cold drinks technology. the sir tell us how to they made the drinks from the fruits from the fruits and the Seed of fruit.





On the next we visited "medicinal plant" Garden, it was huge and thousands of plants (medicinal) importance are there like a Bel, adulsa, Gugal, vekhad, Aloe vera, etc. Dr. Dalve sir tell us about the importance of the medicinal plants and their uses.

We also seen the oil extraction method of dry Candy and Amal powder of Amla.

On the next we visit the Arts, commerce & Science College of Rauri vidyapith.

The important significance of this college, they grow Cactus Garden on the Rock & it's well developed. We see the whole camp with the air of that college they give the information about the whole campus.

with the air of that college, they give the information about the whole campus.

At the day end we back to our home way at Chandwad, we visit shirdi and take dinner in shirdi and then back to Chandwad.

It's a one day study tour but we learn about actual seed technology and knowledge about the seed.

Thank you!



प्रमुस शास्त्रज्ञ (वियाणें), वियाणें विभाग
 महान्मा फुलें कृषि विद्यापीठ., राहुरी.
 बीज प्रक्रिया केंद्र

प्रक्रिया हंगाम : रबी - 2018-19 - 22

प्रक्रियेसाठीच्या वियाणाचा त्वाटा

तपशिल	पोते	वजन (कि.)
पायाभूत वियाणें	2256	2824.08
प्रमाणित वियाणें	8086	1025.04
एकूण	8048	2849.05

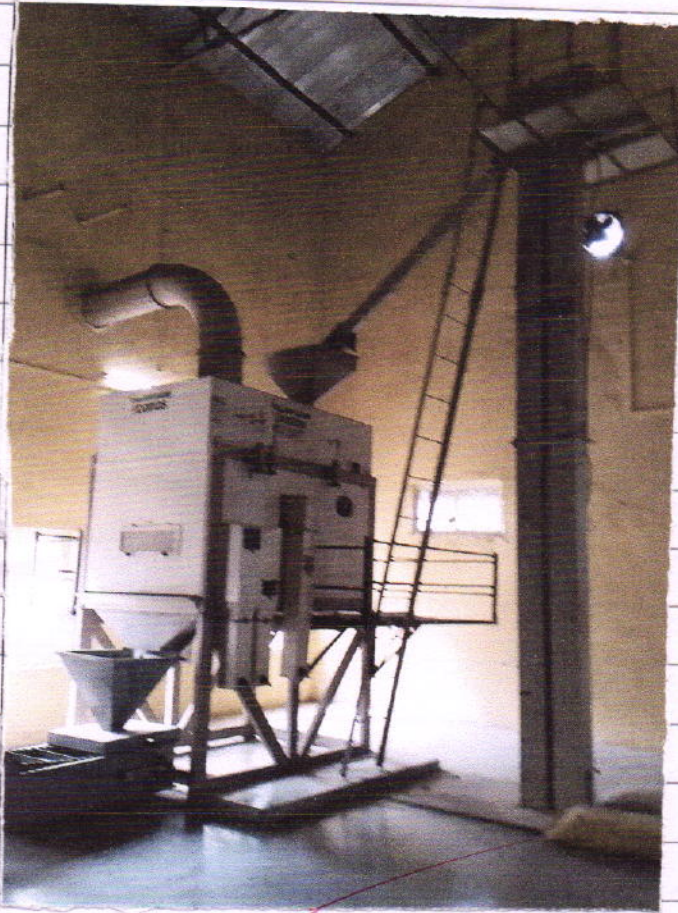
दि. 23/02/2019 पर्यंतची प्रक्रिया

तपशिल	लोट (संख्या)	पोते	चौकट वियाणें (संख्या कि.)	स्वतंत्र वियाणें (कि.)
पायाभूत वियाणें	22	2609	1004.00	221.25
प्रमाणित वियाणें	22	1009	222.00	99.22
एकूण	22	2618	1226.00	320.47

आज प्रक्रिया चालू	पिक	वाण	दर्जा	लोट क्र.
	21	समाधान	काय	

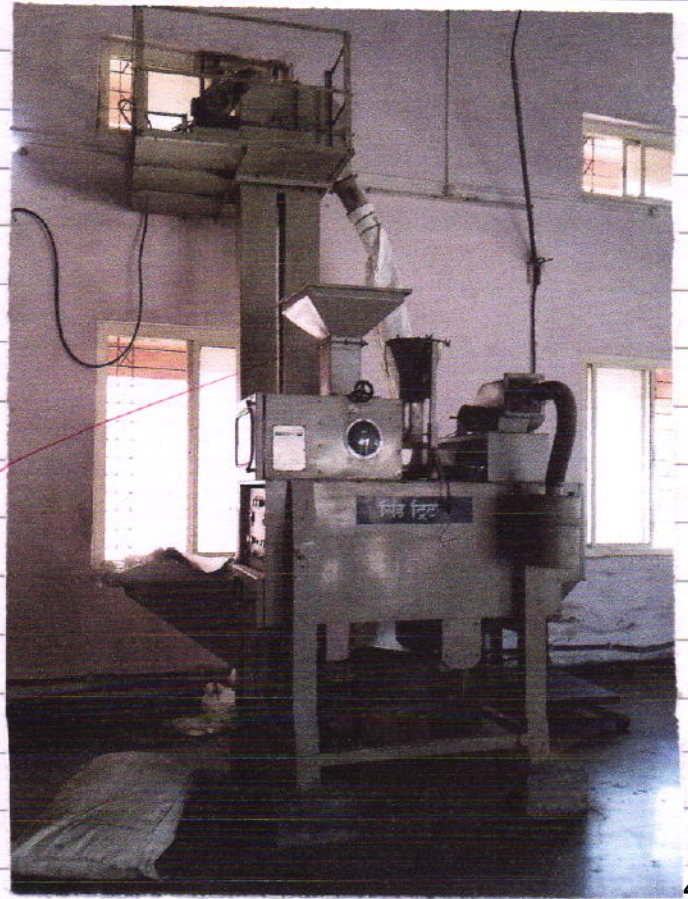
कच्चे वियाणें	पोते	वजन (कि.)
	8080	2849.05





seed devider

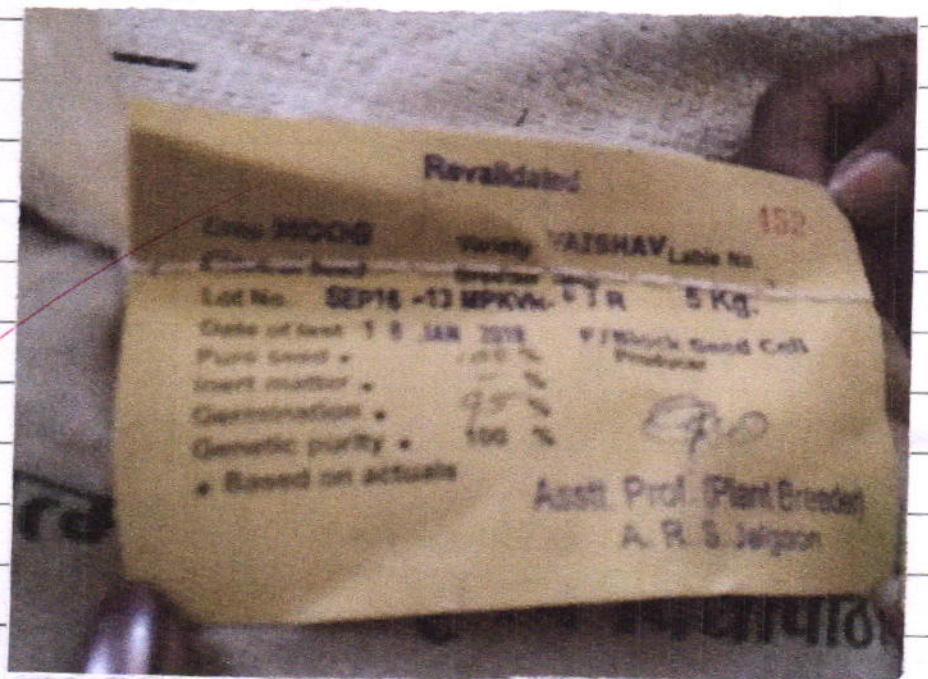
seed treat





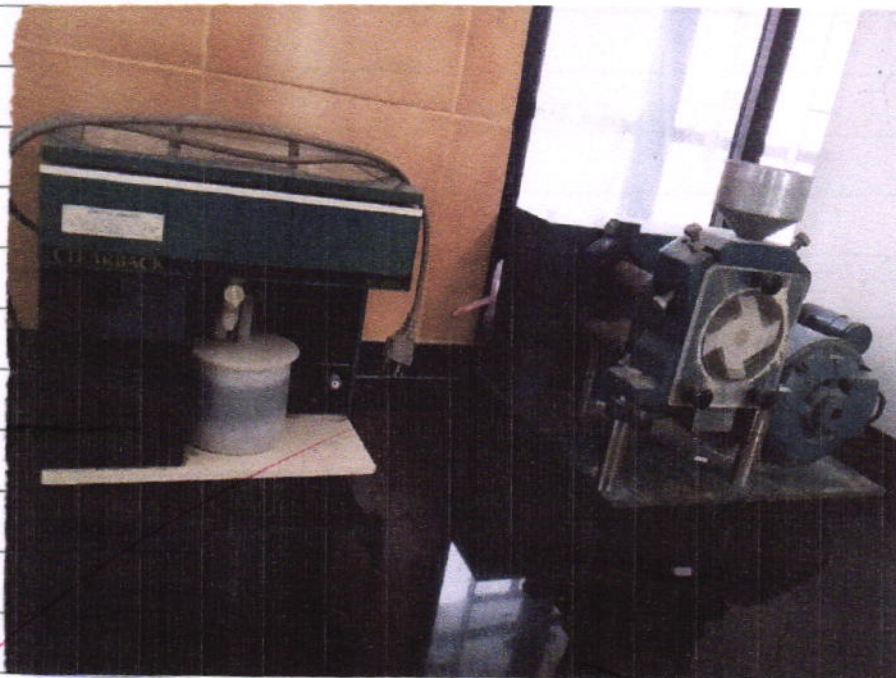
seed grader

tag of breeder seed.

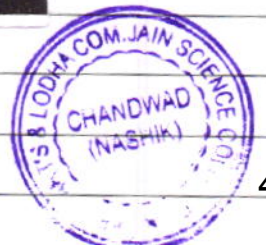




Boerner/gamatic divider



Seed purifier

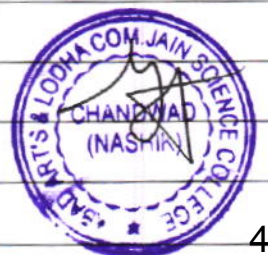




seed germinator - hot air oven



visit at rahuri college



SNJB'S

K.K.H.A Arts, S.M.G.L. Comm., & S.P.H.J.Science, Chandwad-423101

Department of Botany

To
Principal,
K.K.H.A Arts, S.M.G.L. Comm., & S.P.H.J.Science
College, Neminagar Chandwad Dist. - Nashik-423101

Subject- To avail permission for the (educational tour) Wild vegetable
Festival at Baripada.

Sir,

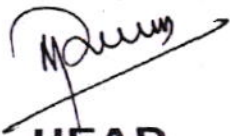
With reference to the subject cited above, as per the curriculum of Savitribai Phule Pune University for M.Sc. Botany; it is Useful for Botany students to visit Wild vegetables festival for best of knowledge. Villagers of BARIPADA Organize wild vegetables festival. In this regard we have planned tour of M.Sc. students on 14/10/1018 at Baripada (Pimpalner). 40 Students and 04 faculty members are participating in the tour.

List of Staff and Students enclosed herewith for your kind information.
Kindly avail the permission and do the needful.

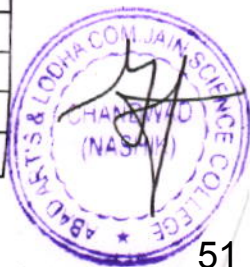
Thanking You.

Yours Faithfully




HEAD
Department of Botany
SNJB's K.K.H.A Arts, S.M.G.L. Commerce
& S.P.H.J. Science College,
Chandwad-423 101 Dist-Nashik

Sr.No.	NAME M.Sc.II	gender	Mo.No.
1	CHAUDHARI ASHOK NAMDEV	Male	7588146687
2	SANAP POOJA KASHINATH	Female	9921178311
3	AHER VRUSHALI ASHOK	Female	9209660514
4	WAGH GAYATRI BALKRUSHNA	Female	9552115117
5	KOKANI YOGESH BRIJALAL	Male	7350927893
6	SABALE SHRAWAN BALU	Male	9689177633
7	SHAIKH GULBASHA ASLAM	Female	9822852719
8	PATIL JAYSHREE NANA	Female	9595501620
9	SHINDE TEJASHRI HIRAMAN	Female	9657510772
10	MOMIN MUSFERA JABEEN MOHAMMED SALEEM	Female	9371672233
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19	SHINDE MAYUR DNYANESHWAR	Male	7776905401
20	SURYAWANSHI SHRADDHA TUSHAR	Female	8975074155
21	MORANKAR MONALI SANJAY	Female	9561890707
	M.Sc. I		
1	DHAGE BHAGYASHRI SHANKARRAO	FEMALE	9130843136
2	JADHAV RASHMI HEMANT	FEMALE	9665838113
3	CHAVAN VAISHALI BHAUSHAEB	FEMALE	7775030710
4	JADHAV SAVITA LAHANU	FEMALE	
5	BAWA PRAGATEE SAHEBRAO	FEMALE	
6	SHAIKH RUKSANA RAMJAN	FEMALE	9075346900
7	PARKHE KOMAL KAKAJI	FEMALE	9860861714
8	PAWAR GAURAV SHANTARAM	MALE	7028636008
9	SHINDE SURAJ BALNATH	MALE	9921134264
10	THORAT SONALI SHARAD	FEMALE	7030643127
11	GANGURDE RINKU RATAN	FEMALE	9075069936
12	SHAIKH MAJABIN SHAKIL	FEMALE	9359683126
13	KADAM ANJALI SHANTARAM	FEMALE	9960409926
14	KASAV SHITAL PRABHAKAR	FEMALE	8796308481
15	MANMOTHE GANESH VILAS	MALE	
16	BHAGWAT SAGAR NARAYAN	MALE	7066229366
17	PAWAR SHITAL AMBADAS	FEMALE	8806146617
18	SURYAWANSHI SUNITA BABAN	FEMALE	
19	NIKAM RUTIKA PUNDLIK	FEMALE	7057166511
20	GORADE ROHINI BAJIRAO	FEMALE	
21	RAYATE VAISHALI PRAKASH	FEMALE	7066125696
22	AHER PRANALI SURESH	FEMALE	8482888790
23	PATIL MOHINI PANDIT	FEMALE	8208872042
	Staff Member		
1	MR.WAGH SWAPNIL DAYARAM	MALE	8275586567
2	MR.PATIL MAYUR SURESH	MALE	8275054036
3	MR.PAWAR NAVNATH VITTHAL	MALE	7774820034
4	MRS.THORAT KANCHAN SANGRAM	FEMALE	9156112837



Shri Neminath Jain Brahmacharyashram (Jain Gurukul's)



स्थापना
१७/११/१९२८

**KARMVEER KESHAVLALJI HARAKCHANDJI ABAD ARTS,
SHRIMAN MOTILALJI GIRIDHARILALJI LODHA COMMERCE
& SHRIMAN P. H. JAIN SCIENCE COLLEGE**

NEMINAGAR, CHANDWAD - 423 101 (DIST. NASHIK)

☎ : (02556) Off. 252125 Tele Fax : (02556) 252125
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Junior College Code No. 13.01.002
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SNJB

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Website : acschandwadcollege.com (NAAC - RE-ACCREDITED - 'B')

Best College Award - 2015-16 of Savitribai Phule Pune University, Pune

Dr. G. H. Jain
Principal

M.Sc., A.D.C.S.A & A. Ph.D.
Member - B.O.S. (Physics) University of Pune

Outward No. : 413/ALJC/2018-19

Date : 12 / 10 / 2018

To
Hon. Administrative Officer,
Shree Neminath Jain Brahmacharyashram's,
Neminagar, Chandwad Dist. - Nashik-423101

Subject- To avail permission for the (educational tour) Wild vegetable
Festival at Baripada.

Sir,

With reference to the subject cited above, as per the curriculum of Savitribai Phule Pune University for M.Sc. Botany; it is Useful for Botany students to visit Wild vegetables festival for best of knowledge. Villagers of BARIPADA Organize wild vegetables festival. In this regard we have planned tour of M.Sc. students on 14/10/2018 at Baripada (Pimpalner). 40 Students and 04 faculty members are participating in the tour.

List of Staff and Students enclosed herewith for your kind information.
Kindly avail the permission and do the needful.

Thanking You.

Yours Faithfully

for 
PRINCIPAL

K.K.H.A. Art's, S.M.G.L. Comm.
& S.P.H.J. Science College,
Chandwad, Dist-Nashik 423101



* Visit Report *



As per the curriculum of "Savitribai Phule Pune University," Pune.

Our Department arranged one day study tour of "Wild Vegetable Festival" and "The Study of Flora" of "Baripada" (near Pimpner) on 14th Oct. 2018.

There were 6 faculty members participated in the tour.

We started our journey at 8:00 AM from our college campus (SNJB's) in Chandwad. There were total 20 students and members of Department namely - Dr. M. T. Patil sir, Prof. Mayur Patil sir, Mrs. Thorat mam, Mr. Pawar and Mr. Lokhande sir.

Firstly we visited was the small village as Baripada at 10:30 AM. It was a small village but developed they were arranged the "Wild Vegetable Festival". It was a rural area. There were farms of rice, Bajara and many more.

One of the programme free entry passes for women we prepared free entry recipe of wild vegetable.



One women who was prepared 60 wild Vegetable Recipe and it was simply prepared but very Tasty.

Then we started to test and to know about the nutritive value of wild Vegetable they arranged a program and also arranged "award's ceremony" for the best recipe.

On the next they arranged our "Lunch programme" at the same Village of home. They were prepared a "khichadi" & "Amati" Recipe for ours.

Then we are started to visit the cultivated and conservation forest area. the cultivated and totally covered by tree as like huge forest.

The total area is about 10 Ekar's covered 25,000 tree and other climber.

We see the following plants of -

- 1) Maduca indica,
- 2) Tectona grandis
- 3) Butea monosperma.

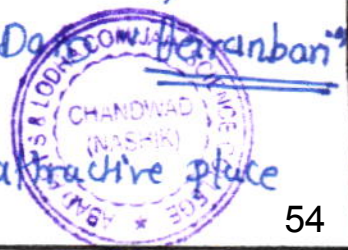
We collected Herbarium of angiospermic plants. & The Village guide was guidance us and tell us the forest and the cultural activity of the forest and the Village.

The main point is that they can't cut the tree. The atmosphere and the Environment is healthy & safe.

In case they cut the tree the cutted tree sold to particular people of this Village and the money use for Developmental activity of Village. Dr. M.T. Patil sir gives information about the plant species and their economic importance.

on the next we visited at evening a Dam "Heranban" the scenerio of Dam was amazing.

That was a amazing one day Tour and attractive place
Thanking You!





this photograph showing some Villagers collect
-d wild medicinal plant in the forest.

जवळील भारत
वनवासी कल्प
आश्रम

जमीन

वनवासी कल्पनाचा उपक्रम म्हणजे वनवासी कल्पनाचे वनवासी गावांमध्ये
सुखी आणि समृद्धीचे धारणी प्रयोग. अदोहा, पाट, जातक, वनवासी
पर्यावरण सुकसात व पेश.

जमीनचे पर्यावरण उपायाने जमीन, नागली, मरई, भावसा, कुळीय, पाट,
पुडुपुंग, इतरथा, वेरकाळ

सका इतरांपासून तांदूळ, रुटिकेरी, पाळसाग, कस, अदोहा, कसरा, हिरवा
पळसाजना, गुळका इ.

२० वर्षांपासून १ किमी चौक्या विकला जात आहे. रोजचा भाडी (२०१५) ५० टक्के
काढा मिळतो.

१५०० कसरी जागा लागते.

११ गुणवत्ता रुटिकेरीची लागवड.

१५०० कसरी जागा लागते. काढा, कसरा, पाणीपत्ता किती काढणे
जागा, जागा अदोहा वर, अदोहाची लागवड करावी.

this photograph showing
all over development & progres-
-ss of Baripada Village.





*List of wild Vegetable in there Occassion.

Amla

1) Gavar

2) Umbarchi Bhaji

3) Methichi Bhaji

4) Tandulkundra

5) Gavlanche phal.

6) fansachi Bhaji

7) Bhilava

8) fashion fruit

9) Ghat Ghol.

10) Tangli Udidi

11) Gudgha var

12) Varas

13) Telatanth.

14) Devari Goyuchi

15) Bhupali

16) chitrak

17) Gogal

18) Rajgira

19) Ulashi mohar





~~Botanical Name -
Family -~~



~~Botanical Name -
Family -~~





Botanical Name -

Family - Asteraceae.



Botanical Name - Habenaria ~~crassifolia~~ ^{crassifolia}.

Family - Orchidaceae.





Botanical Name - Synchella nodiflora
family - Asteraceae



Botanical Name - Zinnia peruviana
family - Asteraceae





Botanical Name -

Family -



Botanical Name - Synedrella nodiflora

Family - Asteraceae

~~60~~



Botanical Name -

Family -



Botanical Name - elu sine corocung

Family - poaceae. (Graminidae)



Department of Botany

Field Visit Report

2018-19

In the academic year 2018-19, Department of Botany organizes the field visit on the Brahmin Hills backside of the college. The Students from M.Sc I and M.Sc II were take part in this excursion activity. 04 Staff members were actively participated in this activity.

The excursion tour is arranged in the Monsoon season henceforth the scenic beauty of the nature is well flourished. The **Brahmin hills** bears wide range diversity of the flora. Particularly Herb and Shrubs. The seasonal flowers which occurred on the Kaas plateau are in somewhat amount also found on the same hill. The rare species of the *Ceropegia hirsuta* and *C. Bulbosa* are occurred within the the sedges of the xerophytes. Which are unknown to this particular area.

This field visit gives a locational advantage of the situation present on the satmala ranges.

Date-20/07/2018

In the academic year 2017-18, Department of Botany organizes the field visit on the **Chandreshwari hills**. The Students from T.Y.B.Sc Class were take part in this excursion activity. 03 Staff members were actively participated in this activity.

The chandreshwari hill is famous for the Chandwad fort and the Lord Mahadev Temple.

The Scenic beauty is memorable because the waterfall is there.

In the taxonomic view point numerous diverse flora is astonishing the mountain. The rare medicinal plant like *Bacopamonerii* (Brahmi) , *Ledeboriasps.* (Sapkanda) are found. The Decorative species *Curcuma pseudomontana* (Ranhalad) and the *habenariagrandifloriformis* (Ground Orchid) and many other such species of herb, shrub and arborial trees were Studied by the student according to the Bethem and Hookers system of Classification.

This field visit gives a locational advantage of the situation present on the satmala ranges.

Date-27/07/2018



Plates



At Local Hill M.Sc II



At Brahmin Hill M.Sc I & II



On the Rashya Plateau



At Base of Mahadev Hill M.Sc II



T.Y.B.Sc Student Visited Chandreshwari plateau



Taxonomist guidance on the field





M.Sc II Student with renowned Taxonomist



M.Sc II student visted the Basuban Area



T.Y.B.Sc Student Visit on Brahmin Tekdi

