

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 Savitribai Phule 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 Savitribai Phule Pune University (2015-16)

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

TYBSc Zoology- Field Visit

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Department of Zoology

SNJB's KKHA Arts, 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: alcccchandwad@yahoo.co.in

Website: www.acschandwadcollege.com

Dr. Swapnil D. Wagh

(M.Sc. Ph.D. CSIR NET JRF, ICAR NET, SET, GATE)

Head, Dept. of Zoology

Email: swapnildwagh@gmail.com

Senior College Code No. 088

University Id. No. PU/NS/AC/015/1970

Zoo/25/2023-24

Date:13/04/2024

To

The Principal

KKHA Arts, SMGL Commerce and SPHJ Science College, 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 T.Y.B.Sc, M.Sc I & M.Sc II Zoology; it is compulsory to visit places of Zoological interests (Invitro Fertilization Center, Bioflog-Fishery Unit). In this regard we have planned One day educational tour for T.Y.B.Sc, M.Sc I & M.Sc II Zoology students, on 16th April 2024 at Invitro Fertilization Center Nashik & Bioflog Fishery Unit Baswant Pimpalgaon. Kindly avail the permission and do the needful.

List of the staff and students enclosed herewith.

Yours Faithfully

VC. PRINCIPAL

K.K.H.A. Arts SMGL Comm.
& S.P.H.J. Science College,

Chandwad, Dist. Nashik - 423 101

Head Dept. of Zoology

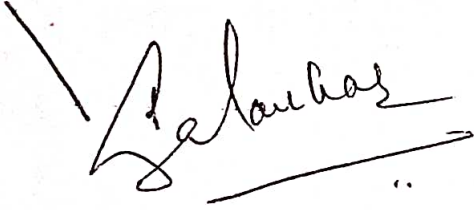
HEAD

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

PTO →

R/ Principal

- 1) Ensure Sr. Staff accompanies
- 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.



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.	Gangurde Devyani	F
2.	Shirke Shubham	M
3.	Jadhav Priyanka	F
4.	Pawar Prem	M
5.	Kahandal Manisha	F
6.	Pagar Punam Babaji	F
7.	Kumavat Payal	F
8.	Mandlik Punam	F
9.	Garud Mansi	F
10.	Jagtap Ankita	F
11.	Prachi Gaikwad	F
12.		

Sr. No.	Name M.Sc - II	Gender
1.	Aher Pratiksha Madhukar	F
2.	Lokhande Sudhir Baburao	M
3.	Pawar Deepali Jibhau	F
4.	Momin Musfera	F
5.	Laeque Qureshi	M
6.	Tahreem Heera Sayyad	F

Sr. No.	Name T.Y.B.Sc	Gender
1.	Saniya Mulla	F
2.	Pooja Shinde	F

Sr. No.	Teachers	Mobile Number	Gender
1.	Dr. Swapnil D. Wagh	8275586567	Male
2.	Mr. Akshay Shimpi	8668910741	Male
3.	Mrs. Bhumika More	7558649933	Female
4.	Mrs. Pooja Dalavi	9156040063	Female
5.	Mr. Kiran Maknor	9309514210	Male



Savitribai Phule Pune University
(Formerly University of Pune)

Three Year B. Sc. Degree Program in Zoology
(Faculty of Science & Technology)

T. Y. B. Sc. Zoology

Choice Based Credit System Syllabus

To be implemented from
Academic Year 2021 - 2022

- | | |
|--|---|
| 5. Study of Reproductive system of any locally available insect pest. (C) | E |
| 6. Study of Social organization in Termites and Honey Bees. | D |
| 7. Study of Insect egg, larva, pupa and their types. | D |
| 8. Study of Insect vectors - Mosquito, House fly, Cockroaches, Bugs. | D |
| 9. Temporary mountings of Mouthparts, Antennae,
Legs and Wings of any locally available insect pest. (C) | E |
| 10. Study of Preservation of Insect pest by using spreading techniques & submission
of any five insect pests / vectors. (C) | E |
| 11. Compulsory field visit to a Wildlife Sanctuary / National Park / Tiger Reserve /
to study the Insect diversity – 2P. | E |

Course Title: Zoology Practical Paper – III

Course Code: ZO 369

Credits: 02

ZO 369 - Zoology Practical Paper III

Section I: Practicals of Techniques in Biology

- | | |
|--|---|
| 1. Compound and Stereo microscope: Components, usage and maintenance. | D |
| 2. To observe different kind of cells under compound microscope and its measurement
using micrometer scale or by image analysis software (Ex. Image J). (C) | E |
| 3. Tissue collection, fixation & Block preparation. (C) | E |
| 4. Sectioning, staining & mounting. Submission of any three permanent
slides from three different organs. (C) | E |
| 5. To study population density and percentage frequency of different animal /
insect species of a given area. | D |
| 6. Calculating the different alpha and beta biodiversity indices of different
animal /insect species of a given area. | D |
| 7. Survey for insects using pit fall trap and light traps in your college
campus / agriculture field. | E |
| 8. Use of photography (Mobile camera / DSLR) in scientific documentation
of at least 5 species of insects / birds/ mammals. | E |
| 9. Visit to a water body / forest to study faunal biodiversity using field equipment – (C) 2P | E |
| 10. Study of Principle & working of PCR & DNA Barcoding – 2 P | E |



**Savitribai Phule Pune
University**
(Formerly University of Pune)

Two Year Degree Program in Zoology
(Faculty of Science & Technology)

Revised Syllabi for

M.Sc. (Zoology) Part-II

(for Colleges Affiliated to Savitribai Phule Pune University)

Choice Based Credit System Syllabus

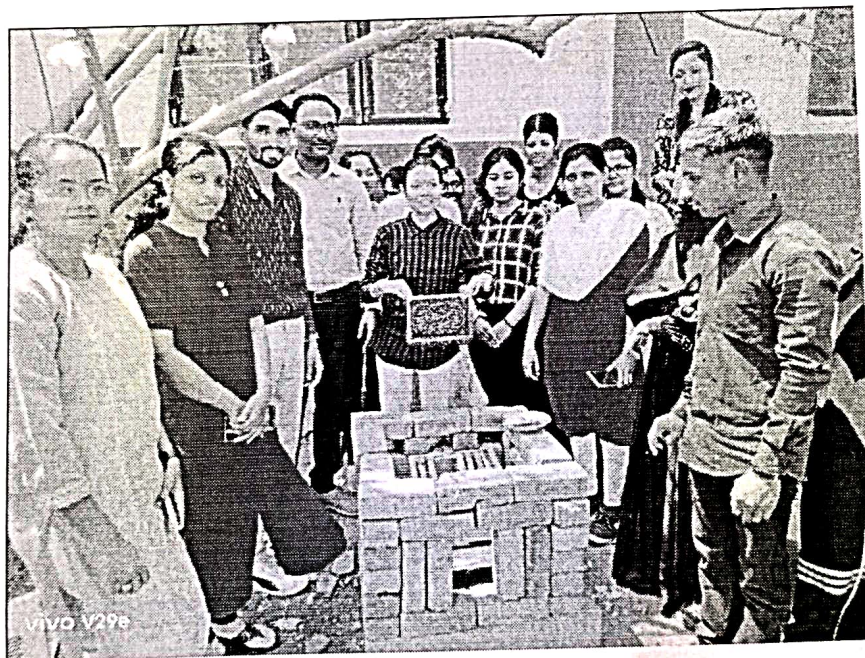
To be implemented from Academic Year 2020-2021

CO4: Justify the rearing techniques and bee management

Sr. No.	Name of the Practical	No. of Practicals
Module- I : Practical Mammalian Reproductive Physiology		
1.	Anatomy of male and female reproductive system in rat/Mouse (Compulsory)	1P
2.	Study of histological slides of male reproductive System-Testis, Vas deferens, Epididymis, Prostate, Seminal vesicle, Cowper's gland (Compulsory)	1P
3.	Study of histological slides of female reproductive System-Ovary, Uterus fallopian tube (Compulsory)	1P
4.	Vaginal smear technique in Rat.	1P
5.	Study of placental types (Compulsory)	1P
6.	Study of Uterine smooth muscles	1P
7.	Study of contraceptive devices (Compulsory)	1P
8.	E-Demonstration of Orchiectomy or Vasectomy or Epididymectomy in rat/ Mice	1P
9.	E-Demonstration of Ovariectomy in rat/Mice	1P
10.	Visit to artificial insemination Centre and family planning Centre.	1P
Module- II : Practical Aquaculture		
1.	To Study Physico-chemical parameters of fresh water -pH, Turbidity, Calcium, Nitrate, Ammonia. (Compulsory)	1P
2.	Determination of total alkalinity and total hardness of fresh water.	1P
3.	Determination of dissolved oxygen (DO), biological oxygen demand (BOD), chemical oxygen demand (COD) of fresh water. (Compulsory)	1P
4.	Study of conventional method for testing the soil of fresh water pond.	1P
5.	Study of control methods of aquatic weeds.	1P
6.	Study of induced breeding techniques by using pituitary extract.	1P
7.	Study of Indian major carps, prawns, and oysters. (Compulsory)	1P
8.	Study of fish disease (bacterial, fungal, protozoan), head and lateral line erosion and eye disease. (Compulsory)	1P
9.	Use of Geographic Information Technique (GIS) and Information and communication technology (ICT).	1P
10.	Visit to fish farm/ fish industry. (Compulsory)	1P
Module- III : Practical Pollution Biology		
1.	Study of bio - indicators of pollution. (Compulsory)	1P
2.	Analysis of CO, CO ₂ , NO pollution level data in collaboration with district pollution dept. of Maharashtra state.	1P
3.	Study of Eutrophic ponds /lakes /river.	1P
4.	Visit to water filtration plant/Pollution. (Compulsory)	1P
5.	Analysis of pH and salinity from water /soil sample.	1P
6.	Determination of LC ₅₀ / LD ₅₀ for insecticide / pollution/molluscicide etc. (Compulsory)	1P
7.	Estimation of Biomass by:- i)Wet weight and ii) Dry weight.	1P
8.	Estimation of calcium and magnesium in polluted water. (Compulsory)	1P

KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad, Dist. Nashik.
Department of Zoology
Excursion Tour Report

One day visit organized by the department of Zoology on 16th April 2024. In this excursion tour T.Y.B.Sc., M.Sc.-I and M.Sc.-II students were participated. Students visited to Bioflog fishery unit, IVF Centre and Sericulture unit at KTHM College Nashik. There were nineteen students & five staff members participated in this Visit.



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