

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- Project

Sr. No.	Document name	Page number
1	Syllabus copy	2
2	List of students	6
3	Sample project copy	7



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

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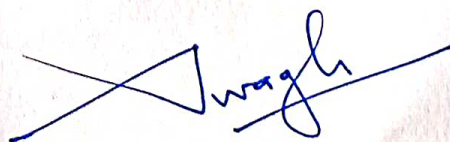
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Department of Zoology
SNJB's K.K.H.A. Arts, S.M.G.L. Commerce
& S.P.H.J. Science College,
Chandwad-423 101 Dist-Nashik

1. Course Structure:

Course Structure with Credit Distribution of the Undergraduate Science Program in Zoology

Course	Course Code and Name of the Course		Credits
F. Y. B. Sc.	SEMESTER I	SEMESTER II	
CC	ZO-111 Animal Diversity I	ZO-121 Animal Diversity II	2+2
CC	ZO-112 Animal Ecology	ZO-122 Cell Biology	2+2
CC	ZO-113 Zoology Practical Paper	ZO-123 Zoology Practical Paper	1.5+1.5
S. Y. B. Sc.	SEMESTER III	SEMESTER IV	
CC	ZO-231 Animal Diversity III	ZO-241 Animal Diversity IV	2+2
CC	ZO-232 Applied Zoology I	ZO-242 Applied Zoology II	2+2
CC	ZO-233 Zoology Practical Paper	ZO-243 Zoology Practical Paper	2+2
AECC	EVS 231-Environment Awareness	EVA 241-Environment Awareness	2+2
AECC	LA 231-English / Marathi	LA 241- English / Marathi	2+2
T. Y. B. Sc.	SEMESTER V	SEMESTER VI	
DSEC	ZO-351 - Pest Management	ZO-361 - Medical & Forensic Zoology	2+2
DSEC	ZO-352 - Histology	ZO-362 - Animal Physiology	2+2
DSEC	ZO-353 - Biological Chemistry	ZO-363 - Molecular Biology	2+2
DSEC	ZO-354 - Genetics	ZO-364 - Entomology	2+2
DSEC	ZO-355 - Developmental Biology	ZO-365 - Techniques in Biology	2+2
DSEC	ZO-356 - Parasitology	ZO-366 - Evolutionary Biology	2+2
DSEC	ZO-357 - Zoology Practical Paper 1	ZO-367 - Zoology Practical Paper 1	2+2
DSEC	ZO-358 - Zoology Practical Paper 2	ZO-368 - Zoology Practical Paper 2	2+2
DSEC	ZO-359 - Zoology Practical Paper 3	ZO-369 - Zoology Practical Paper 3	2+2
SEC	ZO-3510 - Aquarium Management	ZO-3610 - Environmental Impact Assessment	2+2
SEC	ZO-3511 - Poultry Management	ZO-3611 - Project	2+2

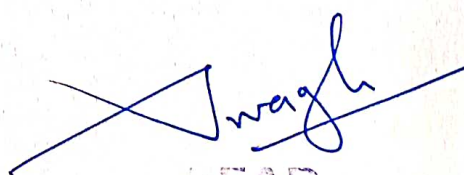

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2. Detailed Syllabus of T. Y. B. Sc.

Following is the syllabus of each course along with the course outcomes:

SR.NO.	SEMESTER	COURSE NUMBER AND NAME	CREDITS
1	V	ZO 351 - Pest Management	2
2	V	ZO 352 - Histology	2
3	V	ZO 353 - Biological chemistry	2
4	V	ZO 354 - Genetics	2
5	V	ZO 355 - Developmental Biology	2
6	V	ZO 356 - Parasitology	2
7	V	ZO 357 - Zoology Practical Paper 1	2
8	V	ZO 358 - Zoology Practical Paper 2	2
9	V	ZO 359 - Zoology Practical Paper 3	2
10	V	ZO 3510 - Aquarium Management	2
11	V	ZO 3511 - Poultry Management	2
12	VI	ZO 361 - Medical & Forensic Zoology	2
13	VI	ZO 362 - Animal Physiology	2
14	VI	ZO 363 - Molecular Biology	2
15	VI	ZO 364 - Entomology	2
16	VI	ZO 365 - Techniques in Biology	2
17	VI	ZO 366 - Evolutionary Biology	2
18	VI	ZO 367 - Zoology Practical Paper 1	2
19	VI	ZO 368 - Zoology Practical Paper 2	2
20	VI	ZO 369 - Zoology Practical Paper 3	2
21	VI	ZO 3610 - Environmental Impact Assessment	2
22	VI	ZO 3611 - Project	2



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Course Title: Project**Course Code: ZO 3611****Credits: 02****ZO 3611 - Project**

Students have to complete the research project in the stipulated time and present the dissertation at the time of the examination in a proper format. Students should be encouraged to take up laboratory work, hands-on practical investigation and design experimental setup. Field work to be carried out under proper supervision and permissions from the concerned authorities.

Possible key aspects of the project work -

1. Planning the project
2. Selecting a suitable title
3. Significance of the work
4. Hypothesis, Objectives
5. Reviewing the available literature
6. Methodology to be used
7. Outcomes of the Project work
8. Conclusion and Discussion
9. Future plans

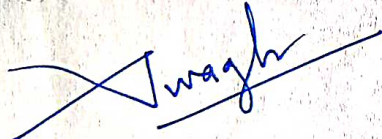
Students should be made aware of plagiarism and research ethics.

Course Title: Zoology Practical Paper - I**Course Code: ZO 367****Credits: 02****ZO 367 - Zoology Practical Paper - I****Section I: Practicals in Medical & Forensic Zoology**

- | | |
|---|-------|
| 1. To carry out routine analysis of given urine sample for - | 2 (E) |
| i. Physical Properties: Volume, Colour, pH, Turbidity, Specific gravity. | |
| ii. Chemical Properties: Sugars, Protein, Bile salts & bile pigments, Ketone bodies, Blood. (C) | |
| 2. Determination of serum urea. | E |
| 3. Determination of serum uric acid. | E |
| 4. Determination of serum Calcium. (C) | E |
| 5. To examine human hair for cortex and medulla. (C) | E |
| 6. To examine hair morphology and determine the species to which the hair belongs. | E |
| 7. To prepare slides of scale pattern of human hair. (C) | E |
| 8. To Visit a Forensic Laboratory and submission of the report. | E |
| 9. To Identify and differentiate various types of Finger prints. (C) | E |

Department of Zoology
Student Project List (2023-24)
(T.Y.B.Sc.)

Sr. No.	Students Name	Project Guide	Title of the Project.
1	Miss. Thakre Pooja Balu.	Ms. P.S. Jadhav	"Studies on Diversity of Crab (Decapoda Brachyura) of Tisgon Dam, Chandwad Tehsil, Nashik, Maharashtra 423101"
2	Miss. Deshmane Shivani Dagu.	Mr. A. R. Shinde.	"Studies on Variation in Human Finger Print Types."
3	Miss. Ahere Devyani Dipak.	Ms. P.S. Jadhav	"Studies on Diversity of Fish From Umbrane Dam. Chandwad Tehsil, Nashik, Maharashtra"
4	Miss. Shinde Pooja Chindhu.	Mr. A. R. Shinde.	"A Preparation of Home remade by using various Plant Leaf Powder For Store Grain Pest"
5	Miss. Nikam Monali Dyaneshwar.	Miss. K.V. Parkhe.	"Comparative Study of Different Animal Hair: A Microscopic Analysis."
6	Miss. Mulla Saniya Saeed.	Ms. P.S. Jadhav	"Studies on Diversity of Prawns of Igatpuri Dam Nashik, Maharashtra 423101"


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COORDINATOR

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


PRINCIPAL

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



ESTD - 1928

SNJB'S

KARMAVEER K.H. ABAD ARTS SHRIMAN M. G. LODHA COMMERS AND
SHRIMAN P. H. JAIN SCIENCE COLLEGE , CHANDWAD, NASHIK-
423101. APRIL 2024

CERTIFICATE

SAVITRIBAI PHULE UNIVERSITY, PUNE

This is to certify that the work incorporated in the dissertation entitled

**“Studies on Diversity of Crab (Decapoda Brachyura) of Tisgon
Dam, Chandwad Tehsil, Nashik, Maharashtra 423101”**

Was satisfactorily carried out by **Miss. Thakre Pooja Balu** of B.Sc. She is bonafide student of this College. She has completed this project under my supervision and guidance during academic year 2023-2024. This project work submitted by her is original and the scientific information's obtained from other sources have been duly acknowledged.

Ms. P. S. Jadhav.

Project Guide

Examiner

Dr. S.D. Wagh

Head, Dept of Zoology

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