



# DEPARTMENT OF ZOOLOGY

# Our Department

- Department of Zoology was established in academic year 1976 with its first batch. Department has two full time qualified staff, and one management recruited demonstrator
- Department teaches to both +2 and Undergraduate students by taking Theory and Practical Classes Regularly.
- More than four batches of graduate students have been released out from the Department. Many of them have grabbed good position in different areas of their careers. Department has been successful in producing good results in University Exams.
- As a part of extra curriculum department celebrates different days, events related to subject and otherwise which inculcates team spirit in them.
- We have opted student centric methods in teaching and learning. Faculty member always creates healthy academic environment and encourage students to participate in various events organised in or outside the college. They are involved in training the brains of the students in their placement gain. In our department we are nurturing students to enable them to be globally competent. We have adopted innovative teaching learning methods using ICT based techniques.
- We organise guest lectures on academics. Outcome of the all academics and social activities conducted is having overwhelming response and beyond expectation for the beneficiaries i.e. students.
- The faculty have actively participated and contributed in the designing and development of curriculum of university course in Zoology. The faculty is involved in effective teaching, timely consultancy and extension activities of the college.



# Vision of the Department

To impart fundamental, global knowledge of animal science as well as inculcate morality among students for making them career oriented and strong enough to face challenges in developing world.

# Mission of the Department

- TO FACILITATE STUDENTS WITH KNOWLEDGE OF CURRENT ADVANTAGES IN ZOOLOGY.
- TO EXPLORE ANIMAL DIVERSITY IN THE LOCALITY.
- TO OFFER SKILL BASED PROGRAMMES/COURSES.
- TO DEVELOP RESEARCH AND SCIENTIFIC ATTITUDE AMONG STUDENTS.
- TO ORGANISE PROGRAMMES TO AWARE PEOPLE IN THE LOCALITY ABOUT SOCIAL ISSUES.
- TO MAKE STUDENT AWARE ABOUT NATURE AND APPRECIATE IT.

# STAFF POSITION



**MRS NIMA PANIGRAHI**  
**HEAD OF THE DEPARTMENT**  
**MPHILL M.SC B.ED**

[http://Incollegejsg.org/CMS/Staffresume/Nima\(Zoology\).pdf](http://Incollegejsg.org/CMS/Staffresume/Nima(Zoology).pdf)  
[http://Incollegejsg.org/CMS/Staffresume/Sonam\(Zoology\).pdf](http://Incollegejsg.org/CMS/Staffresume/Sonam(Zoology).pdf)



**MRS SONAM GANERIWAL**  
**LECTURER IN ZOOLOGY**  
**M.SC B.ED**



**MISS SWATI SHARMA**  
**DEMONSTRATOR**  
**B.SC**

# FEATURES OF THE DEPARTMENT

- Department conducts Seminar once a week
- Department organise field trips, excursions for the Students.
- Different Small projects are assigned to the students.
- Many of the lectures are taught over Power Point Presentation. These lectures includes videos, animations, pictures for easy understanding of subject
- Guest speakers are invited to add extra knowledge to our students.
- Department runs Value Added based Certificate Courses for the Students
- Study materials is provided on regular basis by the faculty members
- Department orient the students about ecosystem, bio-diversity, wildlife conservation and management with the help of models, photographs, movies, documentaries, charts and use of ICT and take learners to field to have realistic experiences.
- Department publishes a Wall Magazine every Year for the students.
- Department has Mentor-Mentee System for Developing a healthy Student Teacher Relationship.

# MAJOR EVENTS OF DEPARTMENT TILL DATE SINCE 2018-19

## ACADEMIC YEAR 2023-24

SL NO.	DATE	EVENT
1.	03/10/2023	WORLD HEART DAY
2.	01/12/2023	WORLD AIDS DAY
3.	08/02/2024	VISIT TO KRISHI VIGYAN KENDRA
4.	30/03/2024	WORKSHOP ON VERMICOMPOSTING

## Departmental seminar Session 2023-2024

SL NO.	DATE	NAME OF THE PRESENTER	TOPIC	NO. OF MALE PARTICIPANT	NO. OF FEMALE PARTICIPANT
1.	09/09/23	DR D.S SUMAN (GUEST)	VECTOR BORNE DISEASE	15	12
2.	23/11/23	MRS K. BHOI (GUEST)	LIFE CHANGING GREAT SCIENTIFIC IDEAS	12	18
3.	31/01/24	GEETA SA	LIFE CYCLE OF ASCARIS LUMBRICOIDES	07	08
4.	01/02/24	DEEPIKA BADHEI	LIFE CYCLE OF FASCIOLA HEPATICA	05	09
5.	01/02/24	SHRABANEE MAHANANDIA	POLYMORPHISM IN COELENTERATES	05	09
6.	01/02/24	JAISINTA LAKRA	LIFE CYCLE OF W. BANCROFTI	05	09
7.	01/02/24	SAHIL SINGH	LIFE CYCLE OF E. HISTOLYTICA	05	09
8.	02/02/24	SHAMBUNATH DASH	ATTRIBUTES OF POPULATION	03	06
9.	02/02/24	SURYAKANT MALLA	LIFE CYCLE OF P.VIVAX	03	06
10.	02/02/24	MANISA KANDA	NITROGEN CYCLE	03	06
11.	02/02/24	BISAL BAG	ECOLOGICAL SUCCESSION	03	06
12.	03/02/24	AMBIKA BEHERA	ABIOTIC COMPONENT-LIGHT & TEMPERATURE	04	08
13.	03/02/24	RAMYA SETH	ECOLOGICAL COMMUNITY	04	08
14.	03/02/24	PABITA HEMBRAM	LIFE CYCLE OF T. SOLIUM	04	08
15.	03/02/24	MANTASHA NAZZ	FUNCTION OF ECOSYSTEM	04	08



## ACADEMIC YEAR 2022-23

SL NO.	DATE	EVENT
1.	14/11/2022	WORLD DIABETES DAY
2.	01/12/2022	WORLD AIDS DAY

# DEPARTMENTAL SEMINAR

## SESSION 2022-2023

SL NO.	DATE	NAME OF THE PRSENTER	TOPIC	NO. OF MALE PARTICIPANT	NO. OF FEMALE PARTICIPANT
1.	03/12/22	TAPASWINI MEHER	MULTIPLE ALLELEISM	06	08
2.	03/12/22	POULASTA MINZ	ST . OF BACTERIA	06	08
3.	03/12/22	SHRABANI MAJHI	LIFE CYCLE OF PLASMODIUM	06	08
4.	10/12/22	TANU NEGI	EUGLENA VIRDIS	06	08
5.	10/12/22	KHUSI THAKUR	NITROGEN CYCLE	06	08
6.	13/12/22	LIPSA ROUTARY	EPISTASIS	05	13
7.	13/12/22	TOSHRAM SA	CARBON CYCLE	05	13
8.	17/12/22	NISHA YADAV	LIFE CYCLE OF VIRUS	10	09
9.	17/12/22	NISHAR BEGUM	ENTAMOEBA HISTOLYTICA	10	09
10.	17/12/22	HANSABATI DEHERIA	SKELETON OF SPONGES	10	09

# DEPARTMENTAL SEMINAR

## SESSION 2021-22

SL NO.	DATE	NAME OF THE PRESENTER	TOPIC	NO. OF MALE PARTICIPANT	NO. OF FEMALE PARTICIPANT
1.	17/12/21	SUMIT SETHI	STRUCTURE OF DNA	11	3
2.	17/12/21	SAMARTH MAHESWARI	HIV-AIDS	11	3
3.	17/12/21	LIPSA ROUSTRAY	OSSIFICATION OF BONE	11	13
4.	12/02/22	PARMANANDA BISWAS	BLOOD COAGULATION	07	01
5.	12/02/22	MD NIYAZ	HUMAN CIRCULATORY SYSTEM	07	01
6.	12/02/22	TRIBIKRAM NAIK	MECHANISM OF HORMONE ACTION	07	01
7.	12/02/22	NIGAM KU. GUPTA	MUSCLE CONTRACTION	07	01
8.	19/02/22	SUBASINI SA	NERVE IMPULSE CONDUCTION	11	11
9.	19/02/22	REETA SA	IMMUNOGLOBULIN	11	11
10.	19/02/22	TAPASWINI MEHER	PARENTAL CARE IN AMPHIBIA	11	11

## DEPARTMENTAL SEMINAR

### SESSION 2021-22

SL NO.	DATE	NAME OF THE PRESENTER	TOPIC	NO. OF MALE PARTICIPANT	NO. OF FEMALE PARTICIPANT
11.	12/03/22	CHANDRA MOHAN HEMBRAM	POLYMORPHISM IN COELENTERATES	08	05
12.	12/10/22	ASHWINI MEHER	CORAL AND CORAL REEF	08	05
13.	12/10/22	RUNU BHOI	CELL DIVISION	08	05
14.	26/03/22	SONIA RAI	POPULATION ATTRIBUTES	05	06
15.	04/04/22	MOHINI LAKRA	PORIFERA	04	07
16.	04/04/22	NIHARIKA PAULE	WUCCHERIA BANCROFTI	04	07
17.	05/04/22	NIHARIKA PAULE	ASCARIS LUMBRICOIDES	03	05
18.	05/04/22	RUPARANI MAGAR	FOOD CHAIN & FOOD WEB	03	05
19.	05/04/22	ROMIO SA	ECOLOGICAL SUCCESSION	03	05

## DEPARTMENTAL SEMINAR

### SESSION 2019-20

SL NO	DATE	NAME OF THE PRESENTER	TOPIC	NO. OF MALE PARTICIPANT	NO. OF FEMALE PARTICIPANT
1.	13/01/20	BISWAMITRA PARVA(GUEST)	CRIME SCENE INVESTIGATION AND ITS FORWARD PROCEEDINGS	04	16
2.	13/01/20	SUBHASHREE PATRA (GUEST)	AEROSOLS AND ITS IMPACT ON HUMAN BEINGS	04	16
3.	15/02/20	AKANKSHA BISWAL	INDUCED BREEDING IN FISHES	05	11
4.	15/02/20	HIMANSHU BHUSAN	DNA REPLICATION IN PROKARYOTES	05	11
5.	15/02/20	SIMRAN UPADHYAY	REFLEX ACTION	05	11

## DEPARTMENTAL SEMINAR

### SESSION 2018-19

SL NO.	DATE	NAME OF THE PRESENTER	TOPIC	NO. OF MALE PARTICIPANT	NO. OF FEMALE PARTICIPANT
1.	25/10/18	SONALI JAISWAL	TRANSCRIPTION IN PROKARYOTES	04	06
2.	25/10/18	MANISHA NAIK	STRUCTURE OF DNA	04	06
3.	08/11/18	BARSHA BISI	RESPIRATION IN BIRDS	03	05
4.	08/11/18	TEKCHAND KUSUM	MIGRATION IN BIRDS	03	05
5.	28/11/18	PRIYADARSHINI SAHU	BITTING MECHANISM IN SNAKES	03	03
6.	28/11/18	SONALI JAISWAL	MOUTH PART OF INSECTS	03	03

## DEPARTMENTAL LIBRARY

Apart from the college Library, the department has its own library to fulfil the needs of students for learning Zoology .The library collection includes reference books, text books, classical Zoology Books and other interesting books meant to provide supplementary source of knowledge. So far department has more than 200 books.

Students are highly benefitted as being from Low Income strata of the Society they are unable to afford buying of Books.

## EQUIPMENT FACILITIES IN THE LABORATORY

- Colorimeter
- Digital pH meter
- Centrifuge
- Refrigerator
- Simple and Compound Microscope.
- Water Analyser
- Fish Tank
- Haemocytometer
- Digital Sphygmomanometer
- Haemoglobinometer



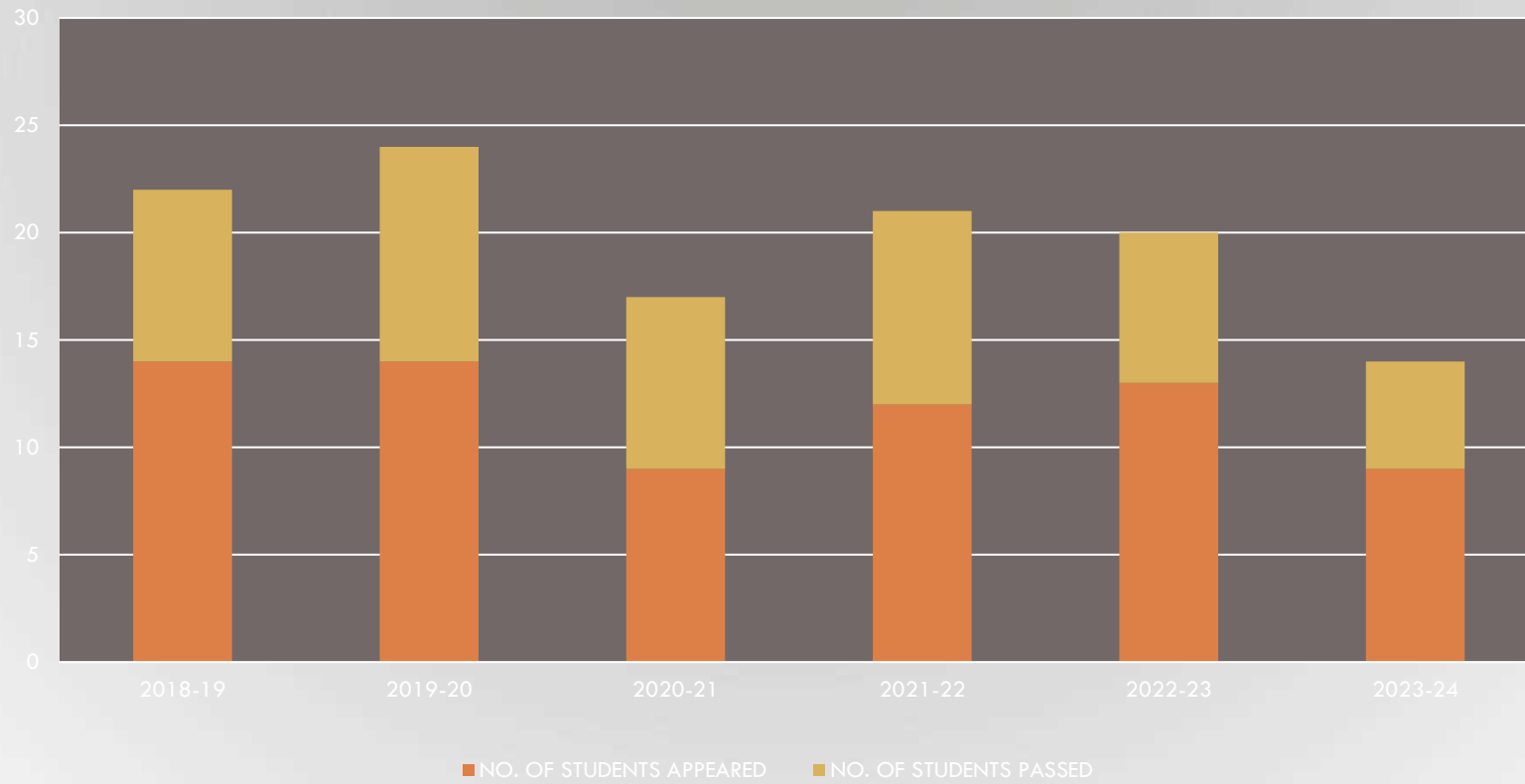
## TEACHING AIDS

- Computer set with internet
- Printer
- Projector
- Charts
- Museum Specimen
- Slides
- Reference books

# RESULT

SESSION	NO. OF STUDENTS APPEARED	NO. OF STUDENTS PASSED
2018-19	14	8
2019-20	14	10
2020-21	9	8
2021-22	12	9
2022-23	13	7
2023-24	9	5

# RESULT



# DEPARTMENT TOPPERS



**ANANTA SAHOO (61.88%)**

2018-2019



**SUBHASHREE PATRA  
(62.60%)**

2019-2020



**SWAYAM VISWAKARMA**

2020-21

# DEPARTMENT TOPPERS



**SONALI PATEL (79.9%)**

2020-21



**REETA SA ( 89.7%) (5<sup>TH</sup> IN  
THE UNIVERSITY)**

2021-22



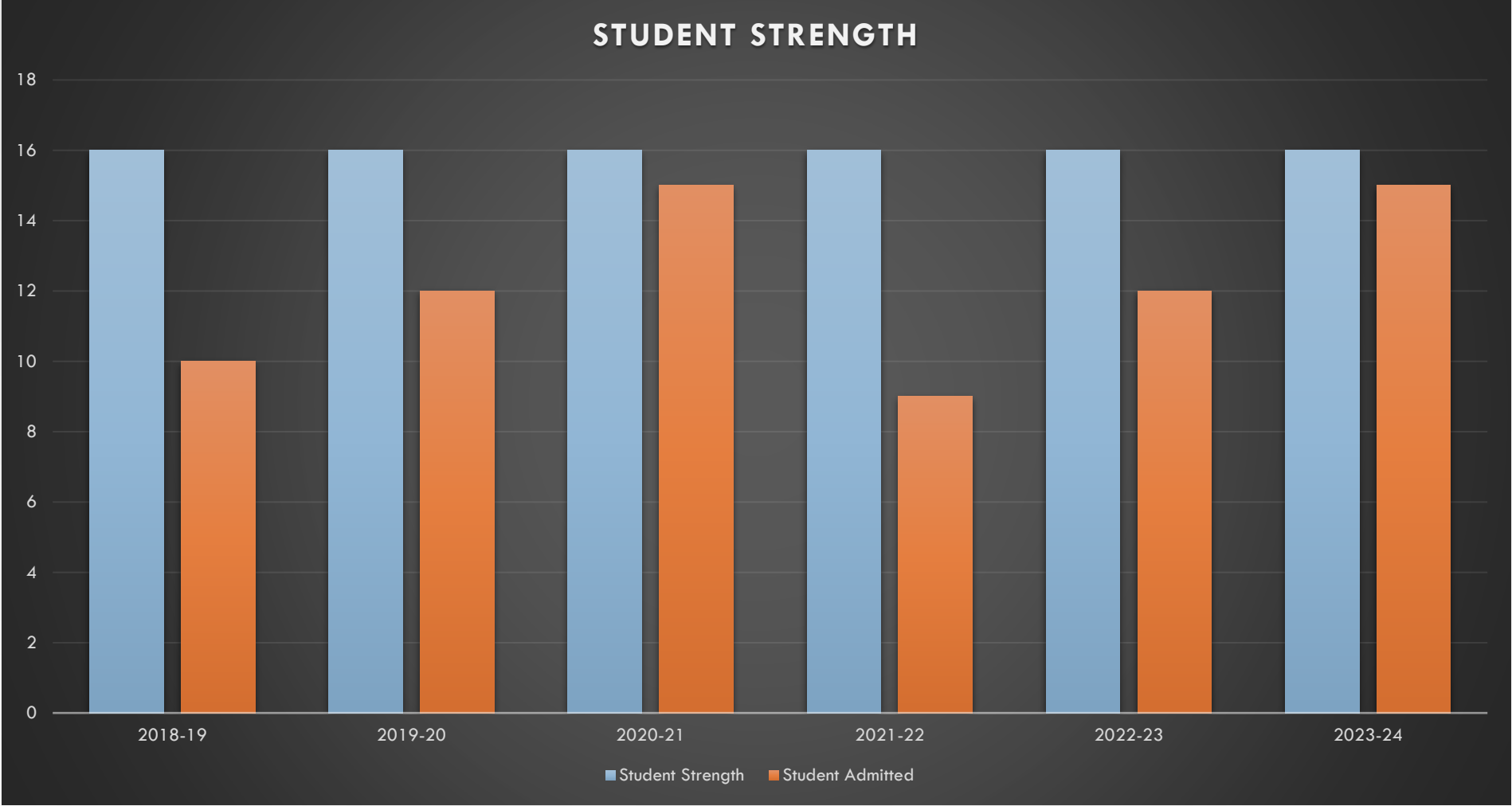
**CHANDRA MOHAN  
HEMBRAM(76.3%)**

2022-23

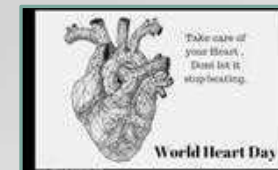
# STUDENT STRENGTH

Session	Student Strength	Student Admitted
2018-19	16	10
2019-20	16	12
2020-21	16	15
2021-22	16	9
2022-23	16	12
2023-24	16	15

# STUDENT STRENGTH







WORLD HEART DAY





AIDS  
DAY  
2023





# WORKSHOP ON VERMICOMPOSTING





FIELD VISIT TO KVK JHARSUGUDA



WELCOME CEREMONY



TEACHERS DAY



FAREWELL CEREMONY





WORLD DIABETES DAY





WORLD AIDS DAY  
2022 IN  
ASSOCIATION WITH  
YRC

Course Structure of U.G. Zoology Honours				
Semester	Course	Course Name	Credit	Total marks
Semester-I	AECC I	AECC I	4	100
	Core I (Theory)	Non-chordates I: Protista to Pseudocoelomates	4	75
	Core I (Practical)	Non-chordates I: Protista to Pseudocoelomates	2	25
	Core II (Theory)	Principles of Ecology	4	75
	Core II (Practical)	Principles of Ecology	2	25
	GE 1 (Theory)	GE 1 (Theory)	4	75
	GE I (Practical)	GE I (Practical)	2	25
	Semester-II	AECC 2	AECC 2	4
Core III (Theory)		Non chordates II: Coelomates	4	75
Core III (Practical)		Non chordates II: Coelomates	2	25
Core IV (Theory)		Cell biology	4	75
Core IV (Practical)		Cell biology	2	25
GE II (Theory)		GE II (Theory)	4	75
GE II (Practical)		GE II (Practical)	2	25
Semester-III		Core V (Theory)	Diversity of Chordates	4
	Core V (Practical)	Diversity of Chordates	2	25
	Core VI (Theory)	Physiology: Controlling and Coordinating systems	4	75
	Core VI (Practical)	Physiology: Controlling and Coordinating systems	2	25
	Core VII (Theory)	Fundamentals of Biochemistry and microbiology	4	75
	Core VII (Practical)	Fundamentals of Biochemistry and microbiology	2	25
	SEC 1	SEC 1	4	100
	GE III (Theory)	GE III (Theory)	4	75
	GE III (Practical)	GE III (Practical)	2	25
	Semester-IV	Core VIII (Theory)	Comparative anatomy of Vertebrates	4

	Core VIII (Practical)	Comparative anatomy of Vertebrates	2	25	
	Core IX (Theory)	Physiology: Life Sustaining Systems	4	75	
	Core IX (Practical)	Physiology: Life Sustaining Systems	2	25	
	Core X (Theory)	Biochemistry of Metabolic Processes	4	75	
	Core X (Practical)	Biochemistry of Metabolic Processes	2	25	
	SEC 2	SEC 2	4	100	
	GE IV (Theory)	GE IV (Theory)	4	75	
	GE IV (Practical)	GE IV (Practical)	2	25	
	Semester-V	Core XI (Theory)	Molecular Biology	4	75
		Core XI (Practical)	Molecular Biology	2	25
Core XII (Theory)		Principles of Genetics	4	75	
Core XII (Practical)		Principles of Genetics	2	25	
DSE I (Theory)		DSE 1	4	75	
DSE I (Practical)		DSE 1	2	25	
DSE II (Theory)		DSE II	4	75	
DSE II (Practical)		DSE II	2	25	
Semester-VI		Core XIII (Theory)	Developmental Biology	4	75
		Core XIII (Practical)	Developmental Biology	2	25
	Core XIV (Theory)	Evolutionary Biology	4	75	
	Core XIV (Practical)	Evolutionary Biology	2	25	
	DSE III (Theory)	DSE III	4	75	
	DSE III (Practical)	DSE III	2	25	
	DSE IV (Theory with Practical /Project)	Project/ Economic Zoology	6	100	
	Total			<b>148</b>	<b>2600</b>

# ACADEMIC CALENDAR 2024-25

SL NO.11	EVENT	DATE
1.	Commencement of Classes of +3 IInd Year and IIIrd Year	18.06.2024
2.	Teachers Meeting	On the Reopening Day after Summer Vacation/ within Regular Intervals
3.	Induction of +3 1st Year Students	01 <sup>st</sup> August
4.	Mentor- Mentee Meeting	Last Saturday in every 2 months
5.	Parent Teacher Meeting	Twice in a year
6.	Semester exams	As notified by the Sambalpur University
7.	Internal Exam	As notified by Exam Section
8.	Department Seminar	Any 2 Saturdays of each fortnight
9.	Ozone day	16 <sup>th</sup> September
10.	World Wildlife Day	7 <sup>th</sup> )ctober 2024
11.	Study Tour	December 2024
	National Science Day	28 <sup>th</sup> February 2025



# WALL MAGAZINE-ZOOLOGICA

2023-24



2018-19



# TEACHING METHODS

1. LECTURE METHOD
2. DEMONSTRATION METHOD
3. POWER POINT PRESENTATION
4. EXPERIMENTAL METHOD



Students learning through Lectures





**Students learning through Experiments**



Students Observing Slides and Museum Specimens



The image features a light gray background with decorative circuit-like lines in a golden-brown color. These lines are located in the four corners, consisting of straight lines and small circles that resemble electronic components or a network diagram. The central focus is a dark brown rectangular box containing the text "THANK YOU" in a white, hand-drawn, brush-style font.

THANK YOU