

Program outcomes, & course outcomes

DEPARTMENT OF ZOOLOGY

The College is permanently affiliated to Gauhati University and it follows the programme wise curriculum designed by the university. The learning outcomes of the programmes and courses are stated clearly by the university. The same is published in the official website of the university which can be downloaded by the affiliated colleges.

The College has its own mechanism to communicate the learning outcomes of the curriculum to the teachers and the students. The following measures are adopted-

- Hard copy of syllabi and learning outcomes are available in all the departments for ready reference to the teachers and students.
- A web link to the Gauhati University Curriculum and learning outcomes of Programmes and Courses is also provided in the college website for reference.
- The departments also arrange Orientation Programmes/Tutorial Meetings to make the students aware of the curriculum and the learning outcomes.

Programme Outcome	Gauhati University's FYUGP is built on the Choice-Based Credit System (CBCS). Students can exit the program after one, two, or three years, and receive a certificate, diploma, or bachelor's degree, respectively. Students who complete the entire four-year program receive a bachelor's degree with honors. After completing an FYUGP, students can pursue a master's degree, or even a doctorate. They can also explore careers in wildlife conservation, environmental consulting, animal welfare organizations, zoos, museums, and research institutes .
	Course outcome
Semester I. Core A1 : Diversity of Non-chordates Code : ZOO-1011	Course Objectives: The course would provide an insight to the learner about the existence of different the existence of different life forms on the earth and appreciate the diversity of animal life. That will help the students to understand the features of the Kingdom Animalia and systematic organization of the animals based on evolutionary relationships , structural and functional affinities . That will also make the students aware about the characteristics morphological and anatomical features of diverse animals, economic , ecological and medical significance of various animals in human life; and create interest among them to explore the animal diversity in nature. .

	Learning Outcomes: Upon completion of the course, students should be able to: 1. Learn about the importance of systematics, taxonomy and structural organization of animals. 2. Understand evolutionary history and relationships of different non-chordates through functional and structural affinities. 3. Critically analyze the organization, complexity and characteristic features of chordates making them familiarize with the morphology and anatomy of representatives of various animal phyla. 4. Comprehend the economic importance of non-chordates, their interaction with the environment and role in the ecosystem. 5. Enhance collaborative learning and communication skills through practical sessions teamwork, group discussions, assignments and projects.
Semester II Core A2 : Diversity of Chordates Code : ZOO-2011	Course objectives : The course is designed with an aim to provide scope and historical background of chordates. It will impart knowledge regarding basic concepts of origin of chordates and make the students under the characteristics and classification of animals with notochord. The exclusive phenomena in chordates like biting mechanism in snakes, flight adaptations in birds etc. Will be explained. The adequate explanation to the students regarding various mechanisms involved in thriving survival of the animals within their geographic realms will create interest among students. Learning Outcomes: Upon completion of the course, the students will be able to: 1. Understand different classes of chordates, level of organization and evolutionary relationship between different subphyla and classes, within and outside the phylum. 2. Study about diversity in animals making students understand about their distinguishing features. 3. Appreciate similarities and differences in life functions among various groups of animals in Phylum Chordata. 4. Comprehend the circulatory, nervous and skeletal system of chordates. 5. Know about the habit and habitat of chordates in marine, freshwater and terrestrial ecosystems.

**Semester III
MAJOR
Compulsory
PRINCIPLES OF GENECTICS
CODE:ZOO-2011**

Course Objectives:

Human beings had been applying the principles of genetics by engaging in selective breeding of domesticated animals for many centuries. However, it was only with the work of Mendel and advent of 20th century, that basic principles of the science of genetics were formulated. In about a century of its existence, this field has generated tremendous amount of knowledge through observational and experimental research. The information amassed in the last century has laid the foundation for more discoveries in this important field of life science. This course aims to provide an overview of genetics starting from the work of Mendel to the current understanding of various phenomena like gene mapping, sex determination and mutations. The course will help in building sound fundamental knowledge of the principles of genetics, to be used as a stepping stone for higher studies and research in this field.

Learning Outcomes:

Upon completion of the course, students will be able to:

1. Understand the basic principles of inheritance.
2. Analyze Mendelian Law and gene interactions leading to development of analytical skills and critical thinking enabling the students to present the conclusion of their findings in a scientific manner.
3. Know the mechanisms of mutations, the causative agents and the harmful impact of various chemicals and drugs being used in day-to-day life.
4. Gain knowledge on genetic and environmental basis of sex determination.

