

Name of Programme: B.Sc
Name of Course: B.Sc III Year (2012-13)
Name of the Paper: Ethology, Biometry and Bioinformatics
Paper Number: XIV

Course Outcomes in detail

A) Objectives:

- 1) To make students interest in understanding the animal behaviour.
- 3) To make attract students to study Bioinformatics.
- 4) To prepare students to develop interest in study computer aided techniques and their applications.

B) Outcomes:

- 1) The students would be able to understand about the collection, classification and graphic representation of Data.
- 2) Student shows ability to know about communications in animals.

Name of Programme: B.Sc
Name of Course: B.Sc III Year (2012-13)
Name of the Paper: Pisciculture
Paper Number: XV (A)

Course Outcomes in detail

A) Objectives:

- 1) To make students interest in understanding the management of fish farms and different species of fishes.
- 2) To make attract students to study fishing methods, fish diseases.
- 3) To prepare students to develop interest in study fish by products.

B) Outcomes:

- 1) The students would be able to understand how to prepare and manage fish farms and the biology of Indigenous and exotic carps
- 2) Student shows ability to know about the different characters of fish species.

Name of Programme: B.Sc
Name of Course: B.Sc III Year (2012-13)
Name of the Paper: Practical Paper (Ecology, Zoo-geography
Ethology, Biometry and Bioinformatics)
Paper Number: XVI

Course Outcomes in detail

A) Objectives:

- 1) To create awareness in students to estimate Dissolved O₂, Dissolved Co₂, Chlorides and Salinity from water sample.
- 2) To make attract students to study fishing methods, fish diseases.
- 3) To prepare students to study ecological adaptations.

B) Outcomes:

- 1) The students would be able to understand how to solve problems based on Mean, Mode, Median, etc.
- 2) Ability how to access the biological data from NCBI and Pub Med.

Name of Programme: B.Sc
Name of Course: B.Sc III Year (2012-13)
Name of the Paper: Practical Paper (Aquaculture and Pisciculture)
Paper Number: XVII (A)

Course Outcomes in detail

A) Objectives:

- 1) To create awareness in students to identify the fish species, to estimate the physic-chemical parameters and perform dissection.
- 2) To make attract students to construct an aquarium and
- 3) To prepare students to visit to Fish Breeding Farm.

B) Outcomes:

- 1) The students would be able to know about the feeding habits of different fish species by examining the stomach content.
- 2) Student would be able to study fish by products.


VICE-PRINCIPAL
Sharda Mahavidyalaya
Parbhani

Name of Programme: B.Sc
Name of Course: B.Sc II Year (2013-14)
Name of the Paper: Genetics
Paper Number: VI

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in Genetics.
- 2) To make aware students to understand the gene and human genetics.
- 3) To make awareness about the interaction of genes and functions of genetic materials along with genetic code.

B) Outcomes

- 1) The students become able to understand the Blood groups and Rh factor.
- 2) The learner becomes able to understand the different syndromes and Human pedigree analysis.
- 3) Ability to know about mutation also.

Name of Programme: B.Sc
Name of Course: B.Sc II Year (2012-13)
Name of the Paper: Comparative Anatomy and Physiology
Paper Number: VIIth

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to understand the different anatomical systems of human being.
- 2) To make aware students to understand the physiology of nerve and muscle.
- 3) To make easy to understand Sliding filament theory of muscle contraction.

B) Outcomes:

- 1) The students become able to understand the digestive, Respiratory, Excretory system as well as nerve and muscle physiology.
- 2) The learner becomes able to understand the comparative anatomy of vertebrates

Name of Programme: B.Sc

Name of Course: B.Sc I Year (2013-14)

Name of the Paper: Life and Diversity of Animals-I (Non-chordates)

Paper Number: Ist

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in the topics of Invertebrates.
- 2) To make aware to understand the diversity of animals.
- 3) To make awareness about the different phylum of Invertebrates.

B) Outcomes

- 1) The students become able to understand the diversity of Invertebrates.
- 2) Becomes able to understand the classification and structures of the given type specimen from the invertebrate phylum.

Name of Programme: B.Sc

Name of Course: B.Sc I Year (2013-14)

Name of the Paper: Cell Biology

Paper Number: II

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to attract and develop interest in the topics of Cell.
- 2) To make aware to understand the different types of Cell.
- 3) To make awareness about the different contents of the cell along with their structures.

B) Outcomes

- 1) The students become able to understand the difference between single and multiple cells.
- 2) Becomes able to understand the structure and functions of the given cell organells.

Name of Programme: B.Sc
Name of Course: B.Sc I Year (2013-14)
Name of the Paper: Life and Diversity of Animals-II (Chordates)
Paper Number: III

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in the topics of Chordates.
- 2) To make aware to understand the different classes of Vertebrates.
- 3) To make awareness about the different systems of vertebrate examples along with their classification.

B) Outcomes

- 1) The students become able to understand the difference between Chordates and Non-chordates.
- 2) The learner becomes able to understand the structure, functions and economic importance of Chordates.

Name of Programme: B.Sc
Name of Course: B.Sc I Year (2013-14)
Name of the Paper: Developmental Biology
Paper Number: IV

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in Developmental Biology.
- 2) To make aware students to understand the different types and gametes of Frog.
- 3) To make awareness about the very interesting Embryo Transfer Technique and GIFT.

B) Outcomes

- 1) The students become able to understand the structure of Sperm and Ova.
- 2) The learner becomes able to understand the regeneration of Non-chordates and chordates.

Name of Programme: B.Sc

Name of Course: B.Sc I Year (2013-14)

Name of the Paper: Practical Paper based on Theory paper I and II

Paper Number: V

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in the specimen study of the all phylum and classes with different examples.
- 2) To make aware to understand the skeleton of human being and Rat or Rabbit.
- 3) To make awareness about how to prepare slides of the provided material with the systematic procedures.
- 4) To attract students towards Mitosis and Meiosis.

B) Outcomes

- 1) The students become able to identify and classify the different specimens from different phyla and classes.
- 2) The learner becomes able to prepare permanent mounts of the material provided.
- 3) Ability to identify the different stages of Frog and Chick Embryology.

Name of Programme: B.Sc
Name of Course: B.Sc II Year (2014-15)
Name of the Paper: Comparative Anatomy and Physiology
Paper Number: VIIth

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to understand the different anatomical systems of human being.
- 2) To make aware students to understand the physiology of nerve and muscle.

B) Outcomes:

- 1) The students become able to understand the digestive, Respiratory, Excretory system as well as nerve and muscle physiology.
- 2) The learner becomes able to understand the comparative anatomy of vertebrates.

Name of Programme: B.Sc
Name of Course: B.Sc II Year (2014-15)
Name of the Paper: Genetic Engineering and Evolution
Paper Number: VIIIth

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to understand the concept of Genetic engineering and theories of organic evolution
- 2) To make aware students to understand the Adaptations

B) Outcomes:

- 1) The students become able to understand the tools in recombinant DNA technology and cloning.
- 2) The learner becomes able to make differentiation in different types of adaptations

Name of Programme: B.Sc
Name of Course: B.Sc II Year (2014-15)
Name of the Paper: Endocrinology, Histology and Biochemistry
Paper Number: IXth

Course Outcomes in detail

A) Objectives:

- 1) To create awareness among students about the different endocrine glands.
- 2) To make attract students to understand the metabolisms.

B) Outcomes:

- 1) The students would be able to differentiate among endo and exocrine glands.
- 2) Ability to identify and describe structure and function of different mammalian organs and tissues.

Name of Programme: B.Sc
Name of Course: B.Sc II Year (2014-15)
Name of the Paper: Practical Paper based on Paper No. VIth and VIIIth
Paper Number: Xth

Course Outcomes in detail

A) Objectives:

- 1) To make students able to solve the different problems based on blood group inheritance and sex-linked inheritance.
- 2) To make attract students to identify and describe adaptations and evidences by using photographs or charts.

B) Outcomes:

- 1) The students would be able to solve problems and demonstrate the given specimen.

Name of Programme: B.Sc

Name of Course: B.Sc II Year (2014-15)

Name of the Paper: Practical Paper based on Paper No. VIIth and IXth

Paper Number: XIth

Course Outcomes in detail

A) Objectives:

- 1) To make awareness in the students about counting of RBC and WBC and determination of blood group.
- 2) To make attract students to identify and describe different histological structures of different.
- 3) To prepare students to develop interest in detecting digestive enzymes and nitrogenous waste products.

B) Outcomes:

- 1) The students would be able to perform practical skillfully.
- 2) Students become able to measure the Blood Pressure by using B.P Apparatus.
- 3) Ability to identify glands in the chart.

Name of Programme: B.Sc

Name of Course: B.Sc II Year (2014-15)

Name of the Paper: Ecology and Zoogeography

Paper Number: XIIth

Course Outcomes in detail

A) Objectives:

- 1) To make students able to understand ecosystem and its components.
- 2) To make attract students to study different spheres of earth and Bio-geochemical cycles.
- 3) To prepare students to develop interest in wildlife conservation.

B) Outcomes:

- 1) The students would be able to understand the population ecology.
- 2) Students become able to know about the Energy resources and their limitations.

Name of Programme: B.Sc

Name of Course: B.Sc III Year (2015-16)

Name of the Paper: Aquaculture

Paper Number: XIII (A)

Course Outcomes in detail

A) Objectives:

- 1) To make students able to understand Aquaculture.
- 2) To make attract students to study different culture methods.
- 3) To prepare students to develop interest in study and constructing an aquarium.

B) Outcomes:

- 1) The students would be able to understand the types of aquaculture and characteristics of water.

Name of Programme: B.Sc

Name of Course: B.Sc III Year (2015-16)

Name of the Paper: Ethology, Biometry and Bioinformatics

Paper Number: XIV

Course Outcomes in detail

A) Objectives:

- 1) To make students interest in understanding the topic.
- 2) To make attract students to study Bioinformatics.
- 3) To prepare students to develop interest in study computer aided techniques and their applications.

B) Outcomes:

- 1) The students would be able to understand about the collection, classification and graphic representation of Data.
- 2) Student shows ability know about communications in animals.

Name of Programme: B.Sc

Name of Course: B.Sc III Year (2015-16)

Name of the Paper: Pisciculture

Paper Number: XV (A)

Course Outcomes in detail

A) Objectives:

- 1) To make students interest in understanding the management of fish farms and different species of fishes.
- 2) To make attract students to study fishing methods, fish diseases.
- 3) To prepare students to develop interest in study fish by products.

B) Outcomes:

- 1) The students would be able to understand how to prepare and manage fish farms and the biology of Indigenous and exotic carps
- 2) Student shows ability to know about the different characters of fish species.

Name of Programme: B.Sc

Name of Course: B.Sc III Year (2015-16)

Name of the Paper: Ecology, Zoo-geography
Ethology, Biometry and Bioinformatics

Paper Number: XVI

Course Outcomes in detail

A) Objectives:

- 1) To create awareness in students to estimate Dissolved O₂, Dissolved Co₂, Chlorides and Salinity from water sample.
- 2) To make attract students to study fishing methods, fish diseases.
- 3) To prepare students to study ecological adaptations.

B) Outcomes:

- 1) The students would be able to understand how to solve problems based on Mean, Mode, Median, etc.
- 2) Ability how to access the biological data from NCBI and Pub Med.

Name of Programme: B.Sc
Name of Course: B.Sc III Year (2015-16)
Name of the Paper: Aquaculture and Pisciculture
Paper Number: XVII (A)

Course Outcomes in detail

A) Objectives:

- 1) To create awareness in students to identify the fish species, to estimate the physic-chemical parameters and perform dissection.
- 2) To make attract students to construct an aquarium and
- 3) To prepare students to visit to Fish Breeding Farm.

B) Outcomes:

- 1) The students would be able to know about the feeding habits of different fish species by examining the stomach content.
- 2) Student would be able to study fish by products.


VICE-PRINCIPAL
Sharda Mahavidyalaya
Parbhani

Name of Programme: B.Sc

Name of Course: B.Sc I Year (2016-17)

Name of the Paper: Life and Diversity of Animals-I (Non-chordates)

Paper Number: Ist

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in the topics of Invertebrates.
- 2) To make aware to understand the diversity of animals.
- 3) To make awareness about the different phylum of Invertebrates.

B) Outcomes

- 1) The students become able to understand the diversity of Invertebrates.
- 2) Becomes able to understand the classification and structures of the given type specimen from the invertebrate phylum.

Name of Programme: B.Sc

Name of Course: B.Sc I Year (2016-17)

Name of the Paper: Cell Biology

Paper Number: II

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to attract and develop interest in the topics of Cell.
- 2) To make aware to understand the different types of Cell.
- 3) To make awareness about the different contents of the cell along with their structures.

4) Outcomes

- 1) The students become able to understand the difference between single and multiple cells.
- 2) Becomes able to understand the structure and functions of the given cell organelles.

Name of Programme: B.Sc

Name of Course: B.Sc I Year (2016-17)

Name of the Paper: Life and Diversity of Animals-II (Chordates)

Paper Number: III

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in the topics of Chordates.
- 2) To make aware to understand the different classes of Vertebrates.
- 3) To make awareness about the different systems of vertebrate examples along with their classification.

B) Outcomes

- 1) The students become able to understand the difference between Chordates and Non-chordates.
- 2) The learner becomes able to understand the structure, functions and economic importance of Chordates.

Name of Programme: B.Sc

Name of Course: B.Sc I Year (2016-17)

Name of the Paper: Developmental Biology

Paper Number: IV

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in Developmental Biology.
- 2) To make aware students to understand the different types and gametes of Frog.
- 3) To make awareness about the very interesting Embryo Transfer Technique and GIFT.

B) Outcomes:

- 1) The students become able to understand the structure of Sperm and Ova.
- 2) The learner becomes able to understand the regeneration of Non- chordates and chordates.

Name of Programme: B.Sc
Name of Course: B.Sc I Year (2016-17)
Name of the Paper: Practical Paper based on Theory paper I and II
Paper Number: V

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in the specimen study of the all phylum and classes with different examples.
- 2) To make aware to understand the skeleton of human being and Rat or Rabbit.
- 3) To make awareness about how to prepare slides of the provided material with the systematic procedures.
- 4) To attract students towards Mitosis and Meiosis.

B) Outcomes

- 1) The students become able to identify and classify the different specimens from different phyla and classes.
- 2) The learner becomes able to prepare permanent mounts of the material provided.
- 3) Ability to identify the different stages of Frog and Chick Embryology.

Name of Programme: B.Sc
Name of Course: B.Sc II Year (2016-17)
Name of the Paper: Genetics
Paper Number: VI

Course Outcomes in detail

A) Objectives:

- 1) To prepare students to develop interest in Genetics.
- 2) To make aware students to understand the gene and human genetics.
- 3) To make awareness about the interaction of genes and functions of genetic materials.

B) Outcomes:

- 1) The students become able to understand the Blood groups and Rh factor.
- 2) The learner becomes able to understand the different syndromes and Human pedigree analysis