

**Courses: Name of Course: i) M. Sc.**

**ii) Ph. D.**

**M. Sc.: Specialization:** Molecular Biology

**Duration :** Two years

**Intake Capacity:** 30

**Admission Criteria:** As per Merit Basis and Category norms through Central Admission Committee.

### **Course Structure**

Department of Zoology provides stakeholders a chance for M.Sc. course of two years which includes curricular, co-curricular and extracurricular activities. The syllabus of M.Sc. follows guidelines given by UGC. Most of the curriculum part is supporting the stakeholder to go through NET/SET /GATE and competitive examinations successfully. The whole syllabus and other activities support overall development of stakeholders. The departmental intake capacity is of 30 students for M.Sc.-I and M.Sc.-II. The departmental contribution is also for orienting students for research activities through project work given to them in IV<sup>th</sup> Semester. The Semester pattern provides a chance to the students to select a course of their General Interest Choice. Examinations are on CBCS based system. M.Sc. course has two Semesters per year.

### **Syllabus of M.Sc. (Semester Pattern)**

#### **M.Sc. Semester - I**

- Paper- I : Animal Structure and Function (Non-Chordata)
- Paper- II : Animal Structure and Function (Chordata)
- Paper-III : Gamete Biology
- Paper- IV : Genes and Differentiation

#### **M.Sc. Semester - II**

- Paper- V : Molecular Cell Biology
- Paper- VI : Tools and Techniques in Biology
- Paper-VII : Endocrinology.
- Paper- VIII : Ecology and Environment (GIC)

**General Interest Course:** Ecology and Environment

#### **M.Sc. Semester III**

- Paper- IX : Molecular Cytogenetics I
- Paper-X : Molecular Cytogenetics II

- Paper-XI : **Elective Paper I:** Molecular Biology-I
- Paper- XII : **Elective Paper II:** Molecular Biology-II

#### **M.Sc. Semester IV**

- Paper- XIII : ( Compulsory) Biochemistry
- Paper- XIV : ( Compulsory) Enzymology and Biostatistics
- Paper-XV : **Elective Paper III:** Molecular Biology–III (Molecular Immunology - I)
- Paper- XVI : **Elective Paper IV:** Molecular Biology–IV (Molecular Immunology - II)

**Practical (I-VII) based on two papers respectively given as per above list in each Semester**

**Practical VIII:** Project Work