**Name of the Teacher: Zeenat Madan**  **Class: B.Sc.III (5th Semester) Medical & Biotechnology**

**Lesson Plan**

**Paper I: Environmental Biology**

**Paper II: Evolution & Developmental Biology**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | * **Introduction of Syllabus**
* **Gametogenesis and Egg Membranes**
* **Origin of Life I & II**
* **Phylogeny of Horse**
* **Phylogeny of Man**
 |  **Chalk Board Method** **Powerpoint Presentations****Group Discussion****Video Tutorials** |
|  | **01-31 Aug 2017** | * **Fertilization and Parthenogenesis**
* **Cleavage and Blastulation**
* **Development of Frog**
* **Embryonic Induction**
* **Evidences of Evolution**
 | **Chalk Board Method****Powerpoint Presentations****Seminar by Students****Classroom Quiz****Video Tutorials****Microscopic Slides** |
|  | **01-30 Sept 2017** | * **Repair and Regeneration**
* **Development of Chick**
* **Extra embryonic Membranes**
* **Theories of Evolution**
* **Concept of Species**
 | **Chalk Board Method****Powerpoint Presentations****Seminar by Students****Group Discussion****Microscopic Slides** |
|  | **01-31 Oct 2017** | * **Basic Concepts of Ecology**
* **Abiotic and Biotic Factors**
* **Ecosystem**
* **Biogeochemical Cycles**
* **Population Ecology & Interactions**
 | **Chalk Board Method****Powerpoint Presentations****Presentations by Students** **Experiments related to Ecology** |
|  | **01-13 Nov 2017** | * **Environmental Pollution**
* **Migration in Fishes & Birds**
* **Parental Care in Animals**
 | **Chalk Board Method** **Powerpoint Presentation****Video Tutorials**  |

**Topics of Assignments/ Class Tests to be given to the Students:**

|  |  |
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| **Assignment 1** |  **Theories & Evidences of Evolution**  |
| **Assignment 2** | **Development of Chick** |
| **Class Test** | **Development of Frog** |

**Name of the Teacher: Zeenat Madan**  **Class: B.Sc.II (3rd Semester) Medical & Biotechnology**

**Lesson Plan**

**Paper I: Life and Diversity of Chordates**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | * 1. **July 2017**
 | * **Introduction of Phylum Chordata**
* **Classification of Urochordata**
* **Classification of Cephalochordata**
 |  **Chalk Board Method** **Powerpoint Presentations****Video Tutorials** **Demonstration of Specimens**  |
|  | **01-31 Aug 2017** | * **Type Study of Herdmania**
* **Type Study of Branchiostoma**
 | **Chalk Board Method****Powerpoint Presentations****Seminar by Students****Video Tutorials****Anatomical study by Diagrams** |
|  | **01-30 Sept 2017** | * **Classification of Cyclostomata**
* **Type Study of Petromyzon**
 | **Chalk Board Method****Powerpoint Presentations****Seminar by Students****Video Tutorials****Anatomical study by Diagrams** |
|  | **01-31 Oct 2017** | * **Classification of Chondrichthyes**
* **Classification of Osteichthyes**
* **Type Study of Labeo rohita**
 | **Chalk Board Method****Powerpoint Presentations****Video Tutorials****Specimen Study****Group Discussion** |
|  | **01-13 Nov 2017** | * **Scales of Fishes**
* **Fins of Fishes**
 | **Chalk Board Method** **Microscopic Slides****Preparation of Slides**  |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| --- | --- |
| **Assignment 1** |  **Digestive, Respiratory, Circulatory Systems of Herdmania & Branchiostoma**  |
| **Assignment 2** | **-** |
| **Class Test** | **Type Study of Herdmania** |