**Lesson Plan**

**Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans- Odd Semester (Semester-III)**

**Session – 2021-22**

**Department- Zoology**

**Names of the Teachers- Dr. Madhu Bala (Sec-A) & Dr. Sarabjeet Kaur (Sec-B)**

**Class- B.Sc. II (Medical)**

**(Sections A & B)**

**Subject- Zoology**

**PAPER–I: Biodiversity (Chordates) & Evolution-I (ZOO- 301)**

| Month | Date | | Topics to be Covered | Academic Activity Undertaken |
|---|---|---|---|---|
| | From | To | | |
| August | 17.08.2021 | 31.08.2021 | **Protochordates -** Urochordata - Type Study – *Herdmania* except development<br>**Cephalochordata-** Type Study - *Amphioxus* (except development)<br><br>**Cyclostomata–** External Characters of Petromyzon & affinities of Cyclostomata. | Lecture method, PPT, Google Suite, assignments |
| September | 01.09.2021 | 30.09.2021 | **Classification of the animals up to orders relating to the following groups along with brief ecological notes of the following**:<br><br>**Protochordates** : *Herdmania, Molgula, Pyrosoma, Doliolum, Salpa, Oikopleura & Amphioxus* (excluding development). | Practical demonstration using Museum specimens |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.10.2021** | | | | |
| October | 01.10.2021 | 31.10.2021 | **Detailed study of the following animal belonging to** Pisces - Type study- *Labeo*<br>Scales & fins of Pisces<br><br>**Classification upto orders with brief ecological note and economic importance (if any) of the following:**<br>**Cyclostomata**: *Myxine, Petromyzon* & *Ammocoetes* larva.<br>**Chondrichthyes**: *Zygaena* (Hammer headed shark), *Pristis* (saw fish), *Narcine* (electric Ray), *Trygon, Rhinobatus and Chimaera* (rabbit fish).<br>**Actinopterygii:** *Polypterus, Acipenser, Lepisosteus, Muraena, Mystus, Catla, Hippocampus, Syngnathus, Exocoetus, Anabas, Diodon, Tetradon, Echeneis and Solea*.<br>**Dipneusti (Dipnoi):** *Protopterus* (lungfish) | Practical demonstration using Museum specimens, assignments<br><br>Lecture method, PPT, Videos<br>Practical demonstration using Museum specimens |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.11.2021** | | | | |
| November | 01.11.2021 | 30.11.2021 | **Detailed study of the following Type animal of Amphibia:** *Hoplobatrachus tigerinus*<br>**Classification of the animals up to orders relating to the following groups along with brief ecological notes of the following:**<br>Amphibia: *Uraeotyphlus, Necturus, Ambhiuma, Amblystoma and its Axolotl Larva, Triton, Salamandra, Hyla, Rhacophorus* | Lecture method, PPT, Google Suite, assignments<br><br>Practical demonstration using Museum specimens |

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| | | | **MST** | |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.12.2021** | | | | |
| December | 01.12.2021 | 16.12.2021 | **Chordates** – Origin, Parental care and migration<br><br>Concept and evidences of organic evolution.<br>Theories of organic evolution.<br>Origin of life. | Practical demonstration using Museum specimens<br><br>Lecture method, PPT, Videos, Google Suite |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 17.12.2021** | | | | |
| **End semester Examination 17.12.2021 to 27.01.2022** | | | | |

**Lesson Plan**

**Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans- Even Semester (Semester-IV)**

**Session – 2021-22**

**Department- Zoology**

**Names of the Teachers- Dr. Madhu Bala (Sec-A) & Dr. Sarabjeet Kaur (Sec-B)**

**Class- B.Sc. II (Medical)**

**(Sections A & B)**

**Subject- Zoology**

**PAPER–I: Biodiversity (Chordates) & Evolution-II (ZOO- 401)**

| Month | Date | | Topics to be Covered | Academic Activity Undertaken |
|---|---|---|---|---|
| | From | To | | |
| February | 03.02.2022 | 28.02.2022 | **Detailed study of the following animal types:**<br>Reptilia - *Uromastix*<br><br>**Classification of the animals up to orders relating to the following groups along with brief ecological notes of the following:**<br>**Reptilia:** *Chelone(turtle), Testudo(Tortoise), Hemidactylus (wall lizard), Calotes, Draco, Varanus, Phrynosoma, Chamaeleon, Typhlops, Python, Eryx, Bungarus, Naja, Hydrus, Vipera, Crocodilus, Gavialis* and *Alligator.*<br>Poisonous and non-poisonous snakes, Poison apparatus in snakes**.** | Practical demonstration using Museum specimens, PPT, Group discussion |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.03.2022** | | | | |
| March | 01.03.2022 | 31.03.2022 | **Detailed study of the following animal types:**<br>Aves – *Pigeon*<br>**Classification of the animals up to orders relating to the following groups along with brief ecological notes of the following:**<br>**Aves:** *Ardea, Milvus, Pavo, Tyto, Alcedo, Eudynamis and Casuarius***.**<br><br>**Flight adaptations in birds.**<br>**Classification of the animals up to orders relating to the following groups along with brief ecological notes of the following:**<br>**Mammalia:** *Ornithorhynchus, Echidna, Didelphis, Macropus (Kangaroo), Loris, Macaca, Manis (Scaly ant eater), Hystrix (porcupine), Funambulus (Squirrel) Panthera, Canis,Herpestes (Mongoose), Capra, Pteropus.*<br>**Dentition in mammals**<br><br>**MST** | Practical demonstration using Museum specimens, PPT, Group discussion, Lecture method, Online resource (Digi Frog software) |

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| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.04.2022** | | | | |
| April | 01.04.2022 | 30.04.2022 | **Detailed study of the following animal types:**<br>Mammals – *Rat*<br><br>**Revision and Class test** | Lecture method, PPT, Online resource (Digi Frog software), Group Discussion |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.05.2022** | | | | |
| May | 01.05.2022 | 25.05.2022 | **Concept of micro, macro and mega evolution.**<br>**Biological concept of species. Fossils and dating of fossils. Evolution of man.** | Lecture method, PPT, Group Discussion |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 26.05.2022** | | | | |
| **End semester Examination 26.05.2022 to 05.07.2022** | | | | |