**Lesson Plan**

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

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

**Session – 2023-24**

**Department- Zoology**

**Name of the Teacher- Dr. Sarabjeet Kaur**

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

**Single section**

**Subject- Zoology**

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

| Month | Date | | Topics to be Covered | Academic Activity to be Undertaken |
|---|---|---|---|---|
| | From | To | | |
| July | 21.07.2023 | 31.07.2023 | **Chordates** – Origin, Parental care and migration | Power point presentation, group discussion, assignments, Flipped classroom method |
| **Departmental Meeting on 03.08.2023 to review the progress of syllabus as per lesson plans** | | | | |
| August | 01.08.2023 | 31.08.2023 | **Protochordates -** Urochordata - Type Study – *Herdmania* except development<br><br>**Cephalochordata-** Type Study - *Amphioxus* (except development)<br>**Classification of the animals up to orders relating to the following groups along with brief ecological notes of the following**:<br>**Protochordates**: *Herdmania, Molgula, Pyrosoma, Doliolum, Salpa, Oikopleura & Amphioxus* (excluding development). | Power point presentation, group discussion, assignments, Flipped classroom method<br><br>Practical demonstration using Museum specimens, PPT, Group discussion |
| **Departmental Meeting on 02.09.2023 to review the progress of syllabus as per lesson plans** | | | | |
| September | 01.09.2023 | 30.09.2023 | **Cyclostomata–** External Characters of *Petromyzon* & affinities of Cyclostomata<br><br>**Classification upto orders with brief ecological note and economic importance (if any) of the following:**<br>**Cyclostomata**: *Myxine, Petromyzon* & *Ammocoetes* larva. | Power point presentation, group discussion, assignments, Flipped classroom method<br><br>Practical demonstration using Museum specimens, PPT, Group discussion |
| **Departmental Meeting on 03.10.2023 to review the progress of syllabus as per lesson plans** | | | | |
| October | 01.10.2023 | 31.10.2023 | **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>**Chondrichthyes**: *Zygaena* (Hammer headed shark), *Pristis* (saw fish), *Narcine* (electric Ray), *Trygon, Rhinobatus and Chimaera* (rabbit fish).<br>**Actinopterygii:** *Polypterus, Acipenser, Lepisosteus,* | Power point presentation, group discussion, assignments, Flipped classroom method<br><br>Practical demonstration using Museum specimens, PPT, Group discussion<br>Online resource (Digi Frog software) |

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| | | | *Muraena, Mystus, Catla, Hippocampus, Syngnathus, Exocoetus, Anabas, Diodon, Tetradon, Echeneis and Solea.*<br>**Dipneusti (Dipnoi):** *Protopterus* (lungfish)<br><br>**MST** | |
| **Departmental Meeting on 02.11.2023 to review the progress of syllabus as per lesson plans** | | | | |
| November | 01.11.2023 | 18.11.2023 | **Detailed Type study of the following 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, Amphiuma, Amblystoma and its Axolotl Larva, Triton, Salamandra, Hyla, Rhacophorus*<br><br>**Concept and evidences of organic evolution.**<br>**Theories of organic evolution.**<br>**Origin of life.**<br><br>**Revision and Class test** | Powerpoint presentation, group discussion, assignments, Flipped classroom method<br><br>Practical demonstration using Museum specimens, PPT, Group discussion Online resource (Digi Frog software) |
| **Departmental Meeting on 20.11.2023 to review the completion of syllabus as per lesson plans** | | | | |
| **End semester Examination 27.11.2023 to 30.12.2023** | | | | |

**Lesson Plan**

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

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

**Session – 2023-2024**

**Department- Zoology**

**Name of the Teacher- Dr. Sarabjeet Kaur**

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

**Single section**

**Subject- Zoology**

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

| Month | Date | | Topics to be Covered | Academic Activity to be Undertaken |
|---|---|---|---|---|
| | From | To | | |
| January | 09.01.2024 | 31.01.2024 | **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**.** | Power point presentation, group discussion, assignments, Flipped classroom method<br><br>Practical demonstration using Museum specimens, PPT, Group discussion Online resource (Digi Frog software) |
| **Departmental Meeting on 02.02.2024 to review the progress of syllabus as per lesson plans** | | | | |
| February | 01.02.2024 | 29.02.2024 | **Detailed study of the following animal types:**<br>Aves – *Pigeon*<br>Flight adaptations in birds.<br><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>**MST** | Power point presentation, group discussion, assignments, Flipped classroom method<br><br>Practical demonstration using Museum specimens, PPT, Group discussion Online resource (Digi Frog software) |
| **Departmental Meeting on 02.03.2024 to review the progress of syllabus as per lesson plans** | | | | |

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| March | 01.03.2024 | 31.03.2024 | **Detailed study of the following animal types:**<br>Mammals – *Rat*<br>**Dentition in mammals**<br><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 anteater), Hystrix (porcupine), Funambulus (Squirrel) Panthera, Canis, Herpestes (Mongoose), Capra, Pteropus.* | Power point presentation, group discussion, assignments, Flipped classroom method<br><br>Practical demonstration using Museum specimens, PPT, Group discussion Online resource (Digi Frog software) |
| **Departmental Meeting on 02.04.2024 to review the progress of syllabus as per lesson plans** | | | | |
| April | 01.04.2024 | 22.04.2024 | Concept of micro, macro and mega evolution.<br>Biological concept of species.<br>Fossils and dating of fossils.<br>Evolution of man.<br><br>**Revision and Class test** | Power point presentation, group discussion, assignments, Flipped classroom method |
| **Departmental Meeting on 24.04.2024 to review the completion of syllabus as per lesson plans** | | | | |
| **End semester Examination 02.05.2024 to 05.06.2024** | | | | |