**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan**

**Class: B.Sc IInd Year Paper : A (Chordates and Evolution)**

**M.Sc IInd Year Paper XIII (Cell and Molecular Biology)**

**Subject: Zoology Session: 2015-16**

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| **S. No** | **Date From** | **Date Upto** | **Topics to be covered** |
| Week 1 | 20th July | 25th July | **M.Sc II:** Structure and function of organelles: Nucleus, Mitochondria. |
| Week 2 | 27th July | 1st Aug | **B.Sc II:** Introduction of chordates, Origin of Chordates, Organization of *Herdmania:* Digestive system, Respiratory system. |
| Week 3 | 3rd Aug | 8th Aug | **M.Sc II:** Structure and function of organelles: Golgi bodies, ER, Ribosomes, Lysosomes. |
| Week 4 | 10th Aug | 15th Aug | **B.Sc II:** Type study *Herdmania:* Reproductive system, excretory system, Circulatory system, Tadpole larvae and its metamorphosis. |
| Week 5 | 17th Aug | 22nd Aug | **M.Sc II:** Fixation and staining techniques: Non chemical and chemical fixatives, chemistry of staining acidic and basic dyes. |
| Week 6 | 24th Aug | 29th Aug | **B.Sc II:** Type study *Branchiostoma*- Digestive, respiratory, excretory systems. |
| Week 7 | 31st Aug | 5th Sept | **M.Sc II:** Plasma membrane: Structure and organization of membrenes, glycoconjugates and proteins in membrane system ,ion transport, Na+-K+ ATPase, |
| Week 8 | 7th Sept | 12th Sept | **B.Sc II:** Circulatory and reproductive system of Branchiostoma, External characters of Petromyzon. |
| Week 9 | 14th Sept | 19th Sept | **M.Sc II:** Model membranes, liposomes, Protein sorting in ER, golgi and targeting of proteins to mitochondria. |
| Week 10  (including mid term) | 21st Sept | 3rd Oct | **B.Sc II:** Affinities of Cyclostomes, origin of life. |
| Week 11 | 5th Oct | 10th Oct | **M.Sc II:** Secretory and endocytic pathway, microtubules and microfilaments. |
| Week 12 | 12th Oct | 21st Oct | **B.Sc II:** Concept and evidences of organic evolution, theories of organic evolution. |