**P.G. GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**TEACHING PLAN (Semester 2nd & 4th)**

**SESSION (2016-17)**

**Class:** B.Sc.- I (1st Week) **Name of the Teacher: SANJAY KUMAR JHA**

M.Sc.- II & M.Sc.- I (2nd Week)

**Subject: ZOOLOGY Period :** B.Sc.- I (1st, 2nd & 5th)

M.Sc.- I (1st - 3rd)

M.Sc.- II (1st - 7th)

**Paper:** M.Sc.- I: Paper X & M.Sc.- II: Paper XVIII (Room No: 130 & 131)

B.Sc.- I: Paper A+B (Room No: 126 & 219)

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| **S. No.** | **Date from** | **Date upto** | | **Topics to be Covered** |
| Week 1 | Jan 11, 2017 | Jan 14, 2017 | | Introduction to Phylum Mollusca and their classification |
| Week 2 | Jan 16, 2017 | Jan 21, 2017 | | Introduction to Fisheries in the Indian context, History, Scope & Kinds of Aquaculture |
| Week 3 | Jan 23, 2017 | Jan 28, 2017 | | Type study of *Pila globosa*  (Apple Snail) |
| Week 4 | Jan 30, 2017 | Feb 4, 2017 | | Induced breeding techniques in fishes (Natural & Artificial); Ecological classification of aquatic organisms other than fishes. |
| Week 5 | Feb 6, 2017 | Feb 11, 2017 | | Type study of *Pila globosa*  (Apple Snail) Contd. |
| Week 6 | Feb 13, 2017 | Feb 18, 2017 | | Limnological parameters (physical and chemical), effect of various anthropogenic activities on fish population |
| Week 7 | Feb 20, 2017 | Feb 25, 2017 | | Type study of *Pila globosa*  (Apple Snail) Contd.; Introduction to Phylum Echinodermata |
| Week 8 | Feb 27, 2017 | Feb 28, 2017 | | Characteristics of lotic environment as per zonation; Body form in Hillstream fishes, Productivity of water bodies w.r.t Primary and Secondary productivity |
| **First Week March (Mid Semester Exam)** | | | | |
| Week 9 | March 9, 2017 | | March 11, 2017 | Type study of *Asteria* (Star fish) |
| Week 10 | March 13, 2017 | | March 18, 2017 | Various fish diseases (bacterial, viral, fungal, protozoan and helminthic); Fish preservation and transportation |
| Week 11 | March 20, 2017 | | March 25, 2017 | Type study of *Asteria* (Star fish) Contd. |
| Week 12 | March 27, 2017 | | April 1, 2017 | Age and growth determination in fishes using various hard parts such as scales, opercular bones, etc.; Major and minor constituents in fish including minerals and trace elements in fish; Rigor Mortis, autolysis and auto-oxidation and their significance, microbial spoilage of fish. |
| Week 13 | April 3, 2017 | | April 8, 2017 | Type study of *Asteria* (Star fish) contd.; Introduction to Phylum Hemichordates |
| Week 14 | April 10, 2017 | | April 15, 2017 | Concept of Stock fish, DNA Markers, Allozymes, RFLP, RAPD, AFLP, Microsatellites, SNPs, ESTs, Type I&II markers, mtDNA and nuclear DNA; Concept of Transgenic organisms & GMOs with bio-safty regulations. |
| Week 15 | April 17, 2017 | | April 22, 2017 | Type study of *Balanoglossus* (The Acorn or Tongue Worm) |