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

**TEACHING PLAN (2nd, 4th & 6th Semester)**

**SESSION (2017-18)**

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

M.Sc.- II (2nd Week)

**Subject: ZOOLOGY Period:** B.Sc.- I (1st - 3rd)

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

**Paper:** B.Sc.- I: Paper A+B (Room No: 126 & 315)

M.Sc.- II: Paper XVIII & Paper XX (Room No: 130 & 131)

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| **S. No.** | **Date from** | **Date upto** | | **Topics to be Covered** |
| Week 1 | Jan. 08, 2018 | Jan. 13, 2018 | | Introduction to Phylum Mollusca and their classification |
| Week 2 | Jan. 15, 2018 | Jan. 20, 2018 | | Introduction to Fisheries in the Indian context, history, scope & various kinds of Aquaculture |
| Week 3 | Jan. 22, 2018 | Jan. 27, 2018 | | Type study of *Pila globosa*  (The Apple Snail) |
| Week 4 | Jan. 29, 2018 | Feb. 03, 2018 | | Induced breeding techniques in fishes (Natural & Artificial); Ecological classification of aquatic organisms other than fishes. |
| Week 5 | Feb. 05, 2018 | Feb. 10, 2018 | | Type study of *Pila globosa* (contd.) |
| Week 6 | Feb. 12, 2018 | Feb. 17, 2018 | | Limnological parameters (physical and chemical), effect of various anthropogenic activities on fish population |
| Week 7 | Feb. 19, 2018 | Feb. 24, 2018 | | Type study of *Pila globosa* (contd.); Introduction to Phylum Echinodermata |
| Week 8 | Feb. 26, 2018 | Mar. 03, 2018 | | Characteristics of lotic environment as per zonation; Body form in Hill-stream fishes, Productivity of water bodies w.r.t Primary and Secondary productivity |
| **First & Second Week of March (Mid-Semester Exams)** | | | | |
| Week 9 | Mar. 19, 2018 | | Mar. 24, 2018 | Type study of *Asteria* (The Star fish) |
| Week 10 | Mar. 26, 2018 | | Mar. 31, 2018 | Various fish diseases (bacterial, viral, fungal, protozoan and helminthic); Fish preservation and transportation; 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 11 | Apr. 02, 2018 | | Apr. 07, 2018 | Type study of *Asteria* (contd.); Introduction to Phylum Hemichordates |
| Week 12 | Apr. 09, 2018 | | Apr. 14, 2018 | 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-safety regulations. |
| Week 13 | Apr. 16, 2018 | | Apr. 21, 2018 | Type study of *Balanoglossus*  (The Acorn or Tongue Worm) |
| Week 14 | Apr. 23, 2018 | | Apr. 28, 2018 | Revision Work |