**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan Session (2017-18) (1st, 3rd, 5th sem)**

**Class:** M Sc II  **Name of Teacher: Dr. Dalip Kumar**

**Subject:** Zoology **Period:** II - III (Wed-Sat) (week 2)

**Paper: Environmental Biology and Wild Life Room No:** 130

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| **S. No.** | **Date from** | **Date upto** | **Topics to be Covered** |
| Week 1 | Jul. 22, 2017 | Jul. 29, 2017 | ----- |
| Week 2 | Jul. 31, 2017 | Aug. 05, 2017 | **Introduction** : Definition, subdivision & scope of ecology.  **Abiotic Factors** : Temperature, light and soil as ecological factors. |
| Week 3 | Aug. 07, 2017 | Aug. 12, 2017 | ----- |
| Week 4 | Aug. 14, 2017 | Aug. 19, 2017 | Mimicry and Protective colouration – Definition, types of mimicry with  examples.  Migration of fishes and birds. |
| Week 5 | Aug. 21, 2017 | Aug. 26, 2017 | ----- |
| Week 6 | Aug. 28, 2017 | Sep. 02, 2017 | **Principles of limiting factors** : Liebig’s law of minimum, Shelfords law of  tolerance and the combined concept of limiting factors.  **Ecosystem** : Definition, components, food chain & food web, |
| Week 7 | Sep. 04, 2017 | Sep. 09, 2017 | ----- |
| Week 8 | Sep. 11, 2017 | Sep. 16, 2017 | Energy flow through ecosystem, ecological pyramids, Major ecosystems of the world.  **Biogeochemical Cycles** : Definition, different types of gaseous and sedimentary biogeochemical cycles. |
| Week 9 | Sep. 18, 2017 | Sep. 23, 2017 | ----- |
| Week 10 | Sep. 25, 2017 | Sep. 29, 2017 | Parental care, Intra and interspecific relationships |
| **October 10-17, 2017 (Mid-Semester Exams)** | | | |
| Week 12 | Oct. 23, 2017 | Oct. 28, 2017 | Feeding, Learning, reasoning, instinctive and motivative behavior, Social and sexual behavior of animals, Circadian rhythms |
| Week 13 | Oct. 30, 2017 | Nov. 04, 2017 | ----- |
| Week 14 | Nov. 06, 2017 | Nov. 11, 2017 | **Population** : Characteristics, ecological niche, **Biotic community** : Characteristics of biotic community, ecological niche. **Ecological succession** : Definition, types of succession, Xerarch & Hydrarch, concept of climax community, theories of succession. |
| Week 15 | Nov. 13, 2017 | Nov. 18, 2017 | ----- |
| Week 16 | Nov. 20, 2017 | Nov. 25, 2017 | **Ecological Adaptations** : Desert, aerial, fusorial and aquatic adaptations in animals. |
| Week 17 | Nov. 27, 2017 | Dec. 03, 2017 | ----- |