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

**Teaching Plan Session Odd Semester (2017-18)**

Class**: M.Sc 2** Name of teacher: **Mrs Teena Aggarwal**

Paper:XV Subject: **Ecology and Environment**

Room no. 211 Period: IV (2,6 days); III (4 day)

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| S.no | Date from | Date upto | Topics to be covered |
| Week 3 | 7Aug ,2017 | 12Aug ,2017 | Unit –I Environment and ecosystem : Concept and principles |
| Week 4 | 14Aug ,2017 | 19Aug ,2017 | Population Ecology: characteristics of population, growth curves, population regulation |
| Week 5 | 21Aug ,2017 | 26Aug ,2017 | Life history strategies, concept of metapopulation - demes and dispersal, interdemic extinctions, age structured populations. |
| Week 6 | 28Aug ,2017 | 2 Sep, 2017 | Plant communities; definition, quantitative characters, sampling techniques |
| Week 7 | 4 Sep, 2017 | 9 Sep, 2017 | Unit –II Biosphere reserve, Nilgiri biosphere reserve |
| Week 8 | 11 Sep, 2017 | 16 Sep, 2017 | Bio geo chemical cycles ; general account, carbon cycle, nitrogen cycle, phosphorus cycle and sulphur cycle. |
| Week 9 | 18 Sep, 2017 | 23 Sep, 2017 | Biodiversity; concept, level, measure,significance |
| Week10 | 25 Sep, 2017 | 29 Sep, 2017 | Reasons for depletion, magnitude, distribution and conservation strategies, diversity loss from monoculture plantation. |
|  | Autumn break  Mid semester exams |  | (30 Sep 2017-09 Oct 2017)  (10 Oct 2017- 17Oct 2017) |
| Week 11 | 18 Oct,2017 | 21Oct, 2017 | Unit III Pollution –definition, types, air pollution- different pollutants and control. |
| Week 12 | 23Oct, 2017 | 28Oct, 2017 | Water pollution-sources and control, Land pollution-sources and control, Bioremediation and Phytoremediation. |
| Week 13 | 30Oct, 2017 | 4 Nov,2017 | Management and conservation of Natural resources- aims, objectives, renewable and non renewable resources, policies, management, preservation, and conservation strategies, sustainable development. |
| Week 14 | 6 Nov,2017 | 11 Nov,2017 | Non conventional sources of Energy- solar energy ,hydro power, wind power, biogas, geothermal , ocean thermal, tidal and wind energy. |
| Week 15 | 13Nov,2017 | 18 Nov,2017 | Unit –IV Ozone depletion- reasons and its effects on plants, methods to check ozone depletion.  Invasion of alien plants, concept, ecological impact, and management. |
| Week 16 | 20 Nov,2017 | 25 Nov,2017 | Global warming and climate change; reasons , effects, techniques to control global warming.  Weed management; impact, use and ecological role of weeds in agro-ecosystems. |
| Week 17 | 27 Nov,2017 | 1 Dec,2017 | Weed characteristics, major weeds, ecological approach to weed management, problems of weed, allelopathy, its mode and exploitation in weed management. |

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

**Teaching Plan Session Odd Semester (2017-18)**

Class**: B.Sc III**(section- A) Name of teacher: **Mrs Teena Aggarwal**

Paper:B Subject: **Plant Ecology**

Room no. Period: III (1,2,3 day)

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| S.no | Date from | Date upto | Topics to be covered |
| Week 3 | 7Aug ,2017 | 12Aug ,2017 | Unit –I Definition, scope, relationship with other sciences. |
| Week 4 | 14Aug ,2017 | 19Aug ,2017 | Plant Environment: climatic, edaphic factors. |
| Week 5 | 21Aug ,2017 | 26Aug ,2017 | Topographic and biotic factors affecting growth and distribution of plants |
| Week 6 | 28Aug ,2017 | 2 Sep, 2017 | Unit- II Ecosystem: concept, structure, abiotic and biotic components, trophic levels |
| Week 7 | 4 Sep, 2017 | 9 Sep, 2017 | Food chain, food web, ecological pyramids, energy flow |
| Week 8 | 11 Sep, 2017 | 16 Sep, 2017 | Bio geo chemical cycles ; general account, carbon cycle, nitrogen cycle, |
| Week 9 | 18 Sep, 2017 | 23 Sep, 2017 | phosphorus cycle and sulphur cycle. |
| Week10 | 25 Sep, 2017 | 29 Sep, 2017 | Revision |
|  | Autumn break  Mid semester exams |  | (30 Sep 2017-09 Oct 2017)  (10 Oct 2017- 17Oct 2017) |
| Week 11 | 18 Oct,2017 | 21Oct, 2017 | Unit III Community Ecology ; characteristics, frequency, density, cover |
| Week 12 | 23Oct, 2017 | 28Oct, 2017 | Life forms, biological spectrum |
| Week 13 | 30Oct, 2017 | 4 Nov,2017 | Ecological succession ; hydrosere and xerosere |
| Week 14 | 6 Nov,2017 | 11 Nov,2017 | Unit –IV Applied Ecology – air pollution and control. |
| Week 15 | 13Nov,2017 | 18 Nov,2017 | Water and soil pollution and their control |
| Week 16 | 20 Nov,2017 | 25 Nov,2017 | Conservation and management of natural resources |
| Week 17 | 27 Nov,2017 | 1 Dec,2017 | Revision and test |