**Teaching Plan for BSc. Botany**

**Name of the Department: Botany**

**Name of the Teacher: Dr. Jyoti**

## DSC 1A Biodiversity (Microbes, Algae, Fungi and Archegoniates) (BOTA 101 )

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#### DSC 1B Plant Ecology and Taxonomy (BOTA 102)

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| **Month** | **Weeks** | **Book/ Unit/Topic** | **Teaching Method / Resources** | **Student Activities** |
| **July** |  | **UNIT (BOTA 101 TH)** | Lecture |  |
|  | 1st | **Microbes:** General Introduction, Viruses, Bacteria, Economic Importance |  | Assignment |
|  | 2nd | **Algae**: General Introduction , Nostoc, Oedogonium |  | Class Test |
|  | 3rd | **Algae:** Vaucheia, Ectocarpus, Polysiphona, Economic Importance |  |  |
|  | 4th | **Fungi :** General Introduction, Phytophthora, Rhizophus, Penicillium |  | Discussion |
|  |  |  |  |  |
| **August** |  |  | Lecture |  |
|  | 1st | **Fungi:** Venturia, Puccinia, Agaricus, Economic Importance |  | Students Presentatio n |
|  | 2nd | **Fungi:** Lichens;  **Bryophytes**: General Introduction, Marchantia |  | Assignments |
|  | 3rd | **Bryophytes:** Funaria, Economic Importance : **Pteridophytes** General Introduction, Cooksonia, Rhynia |  |  |
|  | 4th | Pteridophytes, Selaginella, Equisetum |  | Quiz |
| **September** |  |  | Lecture |  |
|  | 1st | Pteridophytes, Adiantum Stelar evolution, Economic Importance |  | Class Test |
|  | 2nd | **Gymnosperms General Introduction**, Pinus |  | Assignments |
|  | 3rd | Gymnosperms, Cycas |  |  |
|  | 4th | Economic Importance |  | Students presentations |
| **0ctober** |  | **UNIT (BOTA 102 TH)** | Lecture |  |
|  | 1st | **Plant Ecology,** General Introduction, Soil, Water, Light, Temperature |  |  |
|  | 2nd | Xerophytes, Hydrophytes, **Ecotone**, Edge effect |  | Assignments |
|  | 3rd | Succession, Ecosystem, Food Chain, Food Web |  | Class Discussion |
|  | 4th | **Ecological pyramids**, Biogeochemical Cycles, |  | Class Test |
| **November** | 1st | **Plant Taxonomy**, General Introduction, Identification | Lecture | Quiz |
|  | 2nd | **Taxonomical evidences**, Taxonomic hierarchy |  |  |
|  | 3rd | Botanical nomenclature |  | Assignment |
|  | 4th | Artifical and Natural Classification |  |  |
| **December** | 1st | Phylogenetic classification | Lecture | Class Test |
|  | 2nd | Mid –Term Exams |  |  |
| **February** | 2nd | **Biometerics** | Lecture | Students presentation |
|  | 3rd | Numerical Taxonomy |  | Quiz |
|  | 4th | Cladistic |  | Class Test |
| **March** | Ist |  |  | Class Test |