

Government College Narnaund

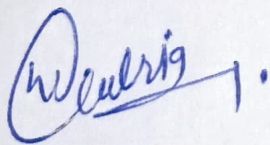
Department of Botany

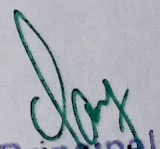
Field Visit Report (2021-2022)

As a part of B.Sc. Curriculum, one day trip was organised by Department of Botany. The major objective was to familiarize the students of B.Sc. First Year and second year (33 Students) with the local flora and ecology of the region. A wonderful journey started on 4 February 2022. Botany students accompanied by two teachers Dr. Naina and Mr. Naresh Kumar left for fields from College campus in the morning. All the happy faces were to excited to learn and have fun.

As a prt of their curriculum, students collected weed and wild plants from civil hospital backyard, canal side, agricultural fields margins. After Collection students pressed the specimens in newspaper folding and pressed them properly in herbarium press. Some common plants collected were *Datura inoxica*, *Withania somnifera*, *Chenopodium*, *Solanum nigrum*, *Solanum xanthocarpum*, *Capsella-brussa-pestoris*, *Anagalis arvensis*, *Euphorbia prostrata* , *Sisymbrium irio* etc.

The field visit gave a positive and practical exposure to students and helped them to be very close with beautiful creatures of nature. The department is highly obliged to Principal Dr. Pankaj Goyat for his kind support for this field visit.


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Semester II

(Credits: 0+3)

Plant Ecology and Taxonomy
Laboratory Practical Paper-VI
 BOT 203 P

Time: 3 Hours

Total Marks: 50

Note:

1. Practicals of both the semesters shall be held annually.
2. Students should draw Figures or diagrams and write related descriptions/ notes in their practical note books.
3. Report on excursion tours with photographs, collection, preservation and preparation of herbarium sheets and/ or specimens, if any

List of Practical

1. Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/ hygrometer, rain gauge and lux meter.
2. Determination of pH, and analysis of two soil samples for carbonates, chlorides, nitrates, sulphates and organic matter by rapid field test.
3. Study of morphological adaptations of hydrophytes and xerophytes (four each).
4. Study of biotic interactions of the following: Stem parasite (*Cuscuta*), Root parasite (*Orobanchae*, *Striga*), Epiphytes, Insectivorous plants
5. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus by species area curve method. (species to be listed)
6. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law.
7. Visit and Preparation of Report on polluting Industry/ polluting site and different Ecosystems.
8. Study of floral characters of the following families (Description, V.S. flower, section of ovary, floral diagrams, floral formulae and systematic position according to Bentham & Hooker's system of classification): **Ranunculaceae**- *Ranunculus*/ *Delphinium*; **Brassicaceae** - *Brassica*/ *Alyssum* / *Iberis*; **Leguminosae**- *Pisum*, *Acacia*, *Cassia*, **Asteraceae** - *Sonchus*/ *Helianthus*/ *Ageratum*/ *Eclipta*/ *Tridax*; **Solanaceae** - *Solanumnigrum*/ *Datura*/ *Petunia*; **Lamiaceae** - *Salvia*/ *Ocimum*; **Liliaceae** - *Asphodelus*/ *Lilium*/ *Allium*, **Poaceae**- *Wheat*. Any other available plant species belonging to these families can also be studied.

Semester III

Botany Paper VII
Plant Anatomy
 (BOT 301 L)

(Credits: 2+0)

Time: 3 Hours
 Marks: 100

Max. Marks: 80
 Internal Assessment: 20
 Total