



ON FIELD TEACHING

1. Title of the Practice :

On Field Teaching

2. Objectives of the Practice :

Following are the objectives of On Field Teaching

- To provide first hand real world experiences of Nature and plants.
- To develop observation and perception skill of student.
- To create interest amongst student and add relevance to subject .

3. The Context :

Teaching and learning experiences that take place outside classroom walls (On Field) have a range of benefits for both students and teachers. Learning experiences outside the classroom are forms of experiential learning. These experiences are rooted in the simple principle that 'experience is the best teacher'. Under this framework, learning outside of the classroom is an active process, wherein students encounter authentic problems, construct novel hypotheses, test for real solutions, and interact with others to make sense of the world around them. Further, students that engage in learning experiences outside of the classroom report having higher levels of motivation, recall the course material more vividly, and have improved academic performance in the class. Moreover, field experiences early in a student's career can be formative and can inspire students to continue in a field.

4. The Practice :

Field trips are a common component of subject Botany. University has made it compulsory in the curriculum for all the semesters of Undergraduate and Post Graduate course. In the college classroom, field trips (On field Teaching) can be an effective tool that satisfies many of the above goals and objectives. In Plant Sciences, there are many subjects like morphology, Taxonomy, ecology, biodiversity and many others which can not be taught unless students not able to visualize the organism.

Every year Department of Botany, organize separate field Trips for undergraduate and Post Graduate students, semester wise. For this first of all, a place to be visited and planning is decided. Then it is notified to the students of particular semester. All the permissions from Higher Authorities and Government



Departments have to be taken as per requirement wherever needed. Then depending upon the number of students vehicle has to be arranged.

During field visit students has to make familiarize with the flora and ecology of the region. Also to acquaint them with the importance of wetlands and the threats these ecosystems face due to natural and anthropogenic pressures. As a part of their curriculum, Students collect soil samples for analysis, similarly they collect plants for herbarium preparation. Students were made familiarize with pollution mechanism, fruit dispersal mechanism, patterns of bark maturation. The field trips successfully inculcate in students the practicality of different theoretical concepts of Botany. Every year Botany Department take our students to Institute of National repute like Central Institute of Cotton Research (CICR-ICAR institute), National Research Centre for Citrus (NRCC- an ICAR institute). These institutes focused towards development of methods for sustainable crop cultivation of mandate crops and the problems encountered to the farmers around area. Our students learned about many things like Plant Tissue Culture, Plant Biotechnology and Plant Pathological aspects in National level Laboratories.

5. Evidence of Success :

Since we have implemented this method of teaching more and more students are joining higher education in Botany. Students are getting good result in the subject, and overall in the course. Students are becoming more environments cautious.

6. Problems Encountered and Resources Required :

Sometimes there are some problems we face like Budget restraints, difficulty controlling student behavior, health issue of some students and dealing with anxious student. Establishing rules, soliciting support and proper planning can alleviate many of the disadvantages of On field Teaching.

7. Contact details :

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