DEPARTMENT OF BOTANY

CITY COLLEGE

REPORT ON LOCAL EXCURSION:

SUBASH SAROVAR, KOLKATA

Date of visit : 26/09/2022 (Monday)

Place : Subash Sarovar, Kolkata

Paper : CC7

Participants : Students of Sem III (Hons) participated.

NAME OF THE TEACHERS:

1) Dr. Partha Karak
2) Sandhya Dutta

NAME OF THE STUDENTS:

1) Rohit Das
2) Devansh Kar
3) Sahil Akhtar
4) Prateek Tiwari
5) Sreeparna Maity
6) Ahana Chandra
7) Mukti Singh
8) Iqra Alam
9) Zonena Khatoon
10) Sneha China
11) Rohit Das
12) Devakash Kar
13) Deepbendu Kar.

Objective of Field Study:

1. To provide the students the opportunity to apply theoretical knowledge,methods and techniques of documentation ,collection and preservation of plant specimens belonging to different plant groups both qualitatively (Survey) and quantitatively (quadrat study).

2. To develop observational skills; practicing both individual and team work.

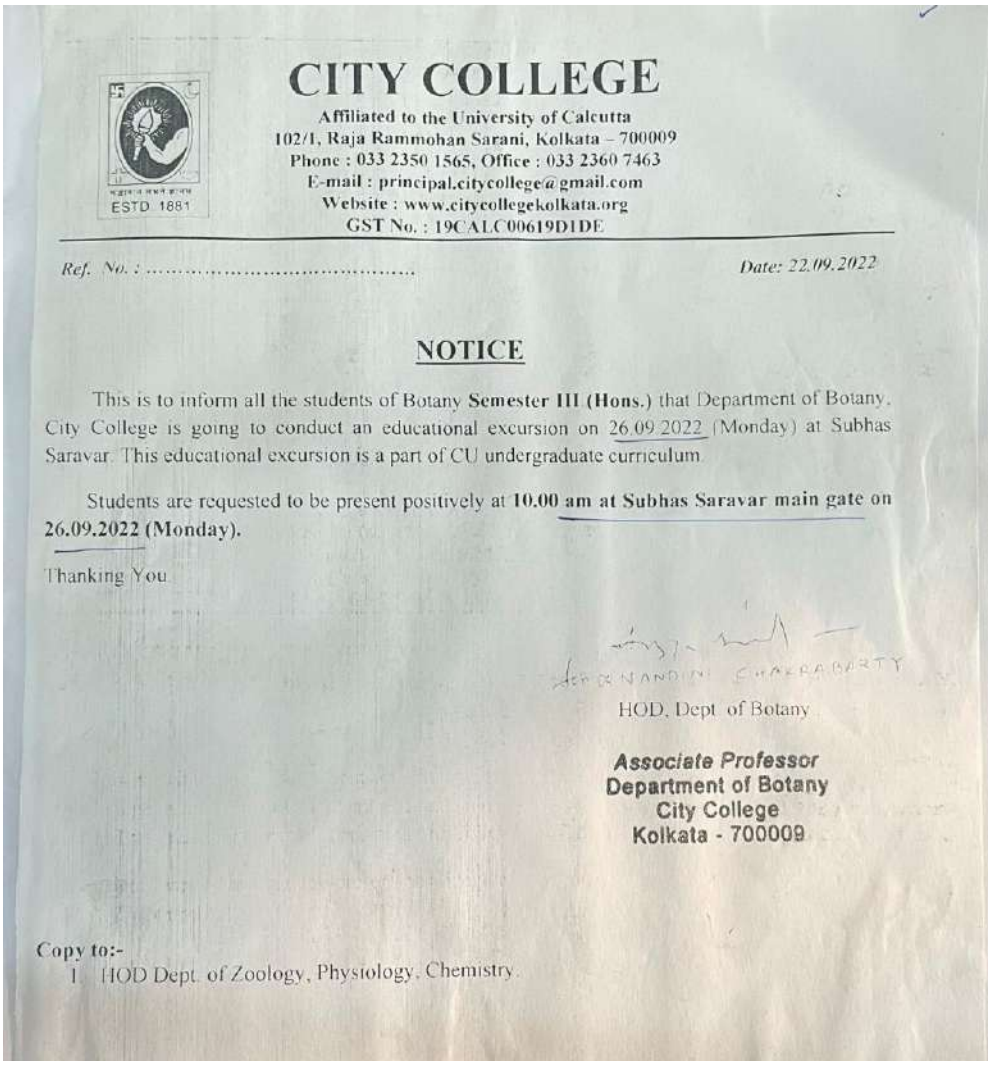
3. To experience unfamiliar places(different Phyto-Geographical regions) including vegetation,forest types and ecosystems and interactions between them.

4.To make new observations;get new impressions,perspective and ideas and creating life long memories.

Report:

Students from Sem III (Hons) of Botany Department visited the area in order to study as well as to collect different angiospermic plant specimens from east wetland area with a pocket of habitable land under greenery for identification, for making herbarium specimens) etc.

Notice:



CITY COLLEGE

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Ref. No. : ..... Date: 22.09.2022

NOTICE

This is to inform all the students of Botany **Semester III (Hons.)** that Department of Botany, City College is going to conduct an educational excursion on 26.09.2022 (Monday) at Subhas Saravar. This educational excursion is a part of CU undergraduate curriculum.

Students are requested to be present positively at **10.00 am at Subhas Saravar main gate on 26.09.2022 (Monday).**

Thanking You

DR NANDINI CHAKRABARTY
HOD, Dept. of Botany

Associate Professor
Department of Botany
City College
Kolkata - 700009

Copy to:-
1. HOD Dept. of Zoology, Physiology, Chemistry.

Syllabus:

6. Diagnostic features, Systematic position (Bentham & Hooker and Cronquist), Economically important plants (parts used and uses) of the following families:

6.1. Monocotyledons: Alismataceae, Gramineae (Poaceae), Cyperaceae, Palmae (Arecaceae), Liliaceae, Musaceae, Zingiberaceae, Cannaceae, Orchidaceae.

6.2. Dicotyledons: Nymphaeaceae, Magnoliaceae, Leguminosae (subfamilies), Polygonaceae, Euphorbiaceae, Malvaceae, Umbelliferae (Apiaceae), Labiatae (Lamiaceae), Solanaceae, Scrophulariaceae, Acanthaceae, Rubiaceae, Cucurbitaceae, Compositae (Asteraceae).

.....12 lectures

PRACTICAL- PLANT SYSTEMATICS (BOT-A-CC-3-7-P)
(Credits 2)

1.Workout on Angiosperms

2. Spot Identification

3.Classroom performance: (Lab records)

4. Field Records (Field note book, Herbarium specimens)

5. Viva

ANGIOSPERMS

1. Work out, description, preparation of floral formula and floral diagram, identification up to genus with the help of suitable literature of wild plants and systematic position according to Benthum Hooker system of classification from the following families: Malvaceae, Fabaceae (Papilionaceae), Solanaceae, Scrophulariaceae, Acanthaceae, Labiatae (Lamiaceae), Rubiaceae.

2. Spot identification (Binomial, Family) of common wild plants from families included in the theoretical syllabus (list to be provided).

FIELD WORK

At least three excursions including one excursion to Acharya Jagadish Chandra Bose Indian Botanic Garden (Shibpur, Howrah) and Central National Herbarium (CNH).

FIELD RECORDS

1. Field Note Book (authenticated) with field notes on the plants of the area of excursion and

voucher specimen book.

2. Herbarium specimen: Preparation of 25 angiospermic specimens (identified with author citation, voucher number and arranged following Bentham & Hooker's system of classification) to be submitted during examination.

CLASSROOM PERFORMANCE

Same as above.

SEMESTER IV
CORE COURSE-8
PLANT GEOGRAPHY, ECOLOGY AND EVOLUTION (BOT-A-CC-4-8-TH)
THEORETICAL
(Credits 4, Lectures 60)

PLANT GEOGRAPHY

1. Phytogeographical regions:
1.1. Phytogeographical regions of India (Chatterjee 1960); 1.2. Dominant flora of Eastern Himalaya, Western Himalaya and Sunderban.

.....8 lectures

2. Endemism:
2.1 Endemic types and Factors; 2.2. Age & Area hypothesis and Epibiotic theory; 2.3. Endemism in Indian flora.

.....6 lectures

ECOLOGY

1. Preliminary idea on:
1.1. Habitat and Niche, 1.2. Ecotone and edge–effect, 1.3. Microclimate, 1.4. Ecads, ecotype and ecoclines, 1.5. Carrying capacity.

.....4 lectures

2. Community ecology:

2.1. Community- Characteristics and diversity, 2.2. Ecological succession –Primary and secondary, Seral stages (with reference to Hydrosere), autogenic and allogenic succession.

.....6 lectures

3.1. Plant indicators (metallophytes); 3.2. Phytoremediation.

.....4 lectures

4. Conservation of Biodiversity:

4.1. Level of Biodiversity: genetic, species & ecosystem diversity, 4.2. Biodiversity hot spots- criteria,

Photo: