

# Report

On

Botanical Long Excursion 2019 (Academic Session 2018-2019)

Place of Excursion: Areas in and around Kalimpong, Lava, Rishop, Dooars, W.B.

Participants: 2<sup>nd</sup> yr (1+1+1 System) & 2<sup>nd</sup> Sem (CBCS) Botany Hons. students

Date of Excursion: 16.02.2019 to 24.02.2019.

Teacher Guide: Dr. Rupak K. Sengupta & Dr. Arghya K. Hait (both Assoc. Professor)

Escort: Sri Ashoke Panda (Laboratory Attendant)

## Details of Student Participants

Sl. No.	Name of the Student	Status	Gender	Age
1.	MEHULI ACHARYA	2 <sup>ND</sup> YEAR BOT (H)	FEMALE	20
2.	HEMLATA GUPTA	2 <sup>ND</sup> YEAR BOT (H)	FEMALE	20
3.	GARGI MUKHERJEE	2 <sup>ND</sup> YEAR BOT (H)	FEMALE	20
4.	DISHANI DAS	2 <sup>ND</sup> YEAR BOT (H)	FEMALE	20
5.	SUPARNA SIKDAR	2 <sup>ND</sup> YEAR BOT (H)	FEMALE	20
6.	SWASTISENI MANNA	2 <sup>ND</sup> YEAR BOT (H)	FEMALE	19
7.	RITESH KUMAR SINGH	2 <sup>ND</sup> YEAR BOT (H)	MALE	20
8.	DIPAYAN GHOSH	2 <sup>ND</sup> YEAR BOT (H)	MALE	20
9.	ROHIT MONDAL	2 <sup>ND</sup> YEAR BOT (H)	MALE	20
10.	SUDIPA BASU	2 <sup>ND</sup> SEMESTER BOT (H)	FEMALE	18
11.	DIYA DEY	2 <sup>ND</sup> SEMESTER BOT (H)	FEMALE	18
12.	RUANA SENGUPTA	2 <sup>ND</sup> SEMESTER BOT (H)	FEMALE	19
13.	CHAYANIKA KHAN	2 <sup>ND</sup> SEMESTER BOT (H)	FEMALE	18
14.	RUPAM DAS	2 <sup>ND</sup> SEMESTER BOT (H)	MALE	19
15.	KABYAJIT BANERJEE	2 <sup>ND</sup> SEMESTER BOT (H)	MALE	19
16.	AYAN MONDAL	2 <sup>ND</sup> SEMESTER BOT (H)	MALE	18
17.	JYOTIRMOY SARKAR	2 <sup>ND</sup> SEMESTER BOT (H)	MALE	19

## **Summary:**

1. Studied and documented the high altitude flora, vegetation types, forest types, habitat conditions of different ecologically sensitive species not found in the plains.
2. Trained on various methods of collection and preservation of different types of plant specimens including Bryophyte, Pteridophyte, Lichen, Gymnosperm and Angiosperm.
3. Experienced the change in the vegetation types in response to altitudinal changes while ascending and descending to and from the hilly areas respectively; noticed and noted the changes in the transitional areas in the Dooars region dotted with tea gardens and finally to a different eco-climatic region with its characteristic vegetation at the Gorumara – Lataguri Forest areas of Dooars.
4. Visited the tea garden, tea processing unit and tea testing laboratory of FAGU TEA ESTATE.
5. Interacted with the local people and make them aware about the various reasons behind the loss of biological resources and options available for conservation in the areas visited.

(2)

Dated: 10.01.20

NOTICE

A long excursion will be held at Dodaro, Lava, Rishop, Kamlimpor and adjoining areas on 16.02.2019 to 24.02.2019 with the 2nd year B.Sc. Botany Honours, City College students. All the teaching, non-teaching and students of 2nd year BOTA are hereby informed and the students are also requested to contact at the department of Botany, City College for their consent and to collect their consent form.

Principal

Silpa Chatterjee  
08/01/2019  
Principal  
CITY COLLEGE  
KOL-9

HOD, Dept. of Botany  
Rupak Kumar Sengupta  
10/01/19  
Associate Professor and Head  
Department of Botany  
City College, Kolkata-9

## Relevant Part of the Syllabus:

# C.U. B.Sc. BOTANY (HONOURS) SYLLABUS, 2010

## CU 1+1+1 System PART II

### PAPER IVB ( PRACTICAL)

#### FIELD WORK

1. At least four excursions including one long excursion to a specialized phytogeographical zone of India and one to Acharya Jagadish Chandra Bose Indian Botanic Garden (Shibpur, Howrah) and Central National Herbarium (CNH).
2. Study of community structure by quadrat method and determination of (i) Minimal size of the quadrat, (ii) Frequency, density and abundance of components (to be done during excursion).

#### FIELD RECORDS

1. Field Note Book (authenticated) with ecological 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 in the University Examination.

## UNIVERSITY OF CALCUTTA

### Notification No. CSR/ 12 /18

#### CU CBCS Semester II III and IV

##### CORE COURSE 4

##### ARCHAEGONIATE (BOT-A-CC-2-4-TH)

##### PRACTICAL- ARCHAEGONIATE (BOT-A-CC-2-4-P)

#### FIELD STUDY

Botanical excursion to familiarize the students with the natural habitats of these groups is desirable.

No individual collection should be allowed. Students should submit only photographs in their field report.

#### CORE COURSE- 6

#### Semester III

##### REPRODUCTIVE BIOLOGY OF ANGIOSPERMS (BOT-A-CC-3-6-TH)

##### PRACTICAL- REPRODUCTIVE BIOLOGY OF ANGIOSPERMS (BOT-A-CC-3-6-P)

#### REPRODUCTIVE BIOLOGY OF ANGIOSPERMS

1. Inflorescence types- study from fresh/ preserved specimens
2. Flowers- study of different types from fresh/ preserved specimens
3. Fruits- study from different types from fresh/preserved specimens
4. Study of ovules (permanent slides/ specimens/photographs)- types (anatropous, orthotropous, amphitropous and campylotropous)
5. Field study desirable

6. A project supported along with photographs taken during field study to be submitted giving comprehensive idea about different types of inflorescence, flowers and fruits.

#### **CLASSROOM PERFORMANCE**

Same as above.

1. Identification with reasons (Morphology)
2. Classroom performance: (Lab records)
3. Field Records (Field note book/ project work)
4. Viva

#### **CORE COURSE- 7**

#### **PRACTICAL- PLANT SYSTEMATICS (BOT-A-CC-3-7-P)**

##### **ANGIOSPERMS**

##### **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  
  1. Workout on Angiosperms
  2. Spot Identification
  3. Classroom performance: (Lab records)
  4. Field Records (Field note book, Herbarium specimens)
  5. Viva
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.

#### **SEMESTER IV**

#### **CORE COURSE-8**

#### **PRACTICAL- PLANT GEOGRAPHY, ECOLOGY AND EVOLUTION (BOT-A-CC-4-8-P)**

##### **PLANT GEOGRAPHY**

1. Field visit- at least one long excursion at different phytogeographical region of India.
2. Study of local flora and submission of a project report highlighting phytogeographical characteristics of the region.

##### **ECOLOGY**

1. Study of community structure by quadrat method and determination of (i) Minimal size of the quadrat, (ii) Frequency, density and abundance of components (to be done during excursion/field visit).
2. Comparative anatomical studies of leaves from polluted and less polluted areas.
3. Measurement of dissolved O<sub>2</sub> by azide modification of Winkler's method.
4. Comparison of free CO<sub>2</sub> from different sources.  
  1. Workout on ecological parameters
  2. Classroom performance: (Lab records)
  3. Field Records (Field note book of phytogeographical study and ecological study)
  4. Viva



At Fagu Tea Estate, Dooars.



At Gorumara Forest Area, Lataguri, Dooars.



At Cactus House, Kalimpong.



Collection and documentation at Rishop.



At Tea Testing Laboratory, Fagu Tea Estate, Dooars.



