

**City College,
Department of Botany,
Kolkata – 700009**

NOTICE

SCHEDULE FOR LOCAL EXCURSION, 2024

Sl. No.	Date	Place	Class	Teachers Schedule to attend	Meeting Place	Time
1	16.07.2024 (Tuesday)	Bidhan Chandra Krishi Vishwavidyalaya, RRSS, Chakdah research station.	SEM –IV (Hons)	Sutapa Gupta and Sandhya Dutta	PalPara Station	10:30 AM

NOTE: All the students are requested to carry their college ID card, Excursion Card, Diary, Pen, Umbrella and Water bottle.

Nandini Chandra
9/7/24

Head,
Dept. of Botany,
City College, Kol-9

**Associate Professor and Head
Department of Botany
City College, Kolkata-9**

Copy to :

HOD, Dept of Zoology,

HOD, Dept of Chemistry,

HOD, Dept of Physiology

Vice-Principal
City College, Kol-9

Sat Chatterjee

Principal
City College, Kol-9
9/7/2024
**Principal
CITY COLLEGE
KOL-9**

LOCAL EXCURSION: RRSS CHAKDAHA, BIDHAN CHANDRA KRISHI VISHWAVIDYALAYA

Date of visit: 16/07/2024 (Tuesday)

Place: Chakdaha ,RRSS , Panch Pota Farm

Participants' Name: Students of Sem IV(Hons.) participated are —

Amrit Ray, Snigdhodeb Sinha, Barun Ghosal, Deep Mondal, Snehasish Das

Number of Students: 05

Teachers accompanied: Mrs. Sutapa Gupta and Ms.Sandhya Dutta

Objectives:

- 1.To learn about the process and different steps of rice cultivation, including sowing, transplanting, growing , tillering, panicle initiation and harvesting.
- 2.To study the impact of rice farming on the environment and explore sustainable farming practices.
- 3.To know about different uses of different varieties of rice economically.
- 4.To know how to use modern technology in rice cultivation such as irrigation process, automated machineries.
5. To participate in volunteer activities related to farming and community support after getting training at the end of the completion of the course.

Report:

Students of Sem IV (Hons.) of Botany Department visited Rice Cultivation Farmland, Chakdaha on 16.07.2024 to study the cultivation process of major crop plants like rice ,students learned about three varieties of rice Aus, Amon and Boro, also got to know about the layout and design of paddy field, had seen the irrigation process, also got to know about the hybridisation process between two rare varieties of rice as mentioned in the syllabus of Semester IV Hons of Paper CC 9 (Economic Botany).

CORE COURSE- 9
ECONOMIC BOTANY (BOT-A-CC-4-9-TH)
THEORETICAL
(Credits 4, Lectures 60)

1. Origin of cultivated crops: Concepts of centre of origin, their importance with reference to Vavilov's work. Examples of major plant introductions; crop domestication and loss of genetic diversity; evolution of new crops/ varieties, importance of germplasm diversity.
.....6 lectures
2. Cereals: Rice and wheat (origin, morphology, processing and uses).
.....6 lectures
3. Legumes: Origin, morphology and uses of gram and mung bean. Importance to man and environment.
.....6 lectures
4. Sugar and starches: Morphology and processing of sugarcane, products and byproducts of sugarcane industry. Potato- morphology, propagation and uses.
.....5 lectures
5. Spices: Listing of important spices, their family and part used.
.....6 lectures
6. Beverages: Tea (morphology, processing and uses).
.....5 lectures
7. Oil and fats: General description, classification, extraction, their uses and health implications of mustard, soybean, coconut (Botanical name, family and uses). Essential oils- general account, extraction methods, comparison with fatty oils and their uses.
.....10 lectures
8. Drug-yielding plants: Therapeutic and habit forming drugs with special reference to Cinchona, Digitalis, Papavar, Cannabis and Tobacco (morphology, processing, uses and health hazards).
.....8 lectures
9. Timber: general account with special reference to Sal and Teak.
.....4 lectures
10. Fibers: Cotton and Jute (Morphology, extraction and uses).
.....4 lectures

PRACTICAL- ECONOMIC BOTANY (BOT-A-CC-4-9-P)
(Credits 2)

1. Workout, micro-chemical tests
2. Identification- T.S./L.S. of permanent slides

3. Classroom performance: (Lab records, permanent slides)

4. Field visit desirable to give an idea about cultivation of any crop (viz. rice, jute, mustard, tea, potato)


5. Field record of the visit, properly authenticated by escorting teacher

ECONOMIC BOTANY

1. Cereals: Wheat (habit sketch, L.S./T.S. of grain, starch grains, micro-chemical tests); rice (habit sketch, study of paddy and grain, starch grains, micro-chemical tests)
2. Legume: Soybean, ground nut (habit, fruit, seed structure, micro-chemical tests)
3. Source of sugars and starches: Sugarcane (habit sketch; cane juice- micro-chemical tests); potato (habit sketch, tuber morphology, T.S. of tuber to show localization of starch grains, W.M. of starch grains, micro-chemical tests.
4. Tea- tea leaves, tests for tannin
5. Mustard- plant specimen, seeds, tests for fat in crushed seeds
6. Habit sketch of *Digitalis*, *Papaver* and *Cannabis*.
7. Sal, Teak- section of young stem.
8. Jute- specimen, transverse section of stem, tests for lignin on T.S. of stem and study of fibre following maceration technique.

BIDHAN CHANDRA KRISHI VISWAVIDYALAYA
R.R.S.S. CHAKDAHAR FARM-NADIA
DIRECTORATE OF FARMS



 GPS Map Camera

Uttar Panch Pota, West Bengal, India
3G5R+7J9, Ranaghat - Kalyani Rd, Uttar Panch Pota, Chakdaha, West Bengal 741222, India
Lat 23.058203°
Long 88.541734°
16/07/24 12:38 PM GMT +05:30





GPS Map Camera

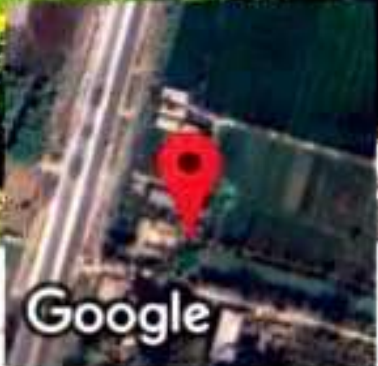
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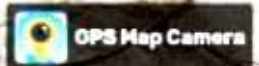
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Long 88.542082°

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Reply



MADHABI

BISAKHA

LATHI SHAL

DEWCHI MANDUA

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