

**A VISIT TO THE BEE-CULTURE UNIT OF VIDYANAGAR
COLLEGE, N.D ROAD, VIDYANAGAR, WEST BENGAL 743503**

NATURE OF WORK: Workshop on the Study of Foraging Behaviour
of Honey Bee and Bee Culture Techniques

Date: 06.05.23

Organizer: Vidyanagar College, N.D Road, Vidyanagar, West Bengal
743503

Participants: 6th Semester Zoology Hons. Students and Teachers of
Zoology Department, City College. Teachers, Bee keeper cum
Instructor of Vidyanagar College.



**Department of Zoology
CITY COLLEGE**

Affiliated to the University of Calcutta
102/1, Raja Rammohan Sarani, Kolkata – 700009
Phone: 033 2350 1565, Office: 033 2360 7463
E-mail: principal.citycollege@gmail.com
Website: www.citycollegekolkata.org
GST No. : 19CALC00619D1DE

Date: 28.04.23

Notice

All Students of 6th Semester Zoology Hons. of City College Are hereby informed that A visit to the
Bee-Culture Unit of Vidyanagar College, N.D Road, Vidyanagar, West Bengal 743503 has been
arranged on 06.05.23 at 11.30 am for studying the behavioural features of the social insect - Honey
Bee, as part of the CU Curriculum.

The said programme will be hosted by Department of Zoology, Vidyanagar College as a part of
Academic MoU between Dept. of Zoology, City College and Dept. of Zoology, Vidyanagar
College.

Please submit the following Google form by 5pm on 02.05.23.

<https://forms.gle/Kj8gVDp7bx1Mz4nP9>

Supriti Sarkar
28/4/23

(Dr Supriti Sarkar)
Head, Department of Zoology,
City College, Kolkata

Head, Department of Zoology
City College, Kolkata-700009



VIDYANAGAR COLLEGE

(ACCREDITED BY NAAC AND GRADED 'B+')

Vidyanagar, P.O. - Charashyamdass, South 24-Parganas

Pin - 743 503, Phone - (033) 2495 9218, West Bengal, INDIA

E-mail : vidya.college.56@gmail.com, Website : www.vidyanagarcollege.net

Ref. No. :

Date : 17.04.2023

To

The Principal

City College,

102/1 Raja Rammohon Sarani

Kolkata - 700009

Sub: Invitation for a One - Day Workshop on apiculture at Vidyanagar College

Dear Sir,

As part of MoU with your college we are inviting your college students (Dept. of Zoology) for a One- Day Workshop on Apiculture at our college. Our Zoology Department has set up an Apiary for last two years and conducted many certificate training courses on rearing of honey bee.

Hence it will be a great pleasure to us to share the practical knowledge on apiculture with the students of Zoology of your college.

Thanking you.

Date: 17.04.2023

Your sincerely,

Principal

Vidyanagar College

Dr. S. P. Agarwala

Principal

Vidyanagar College

South 24 Parganas



CITY COLLEGE

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GST No. 19CALC00619D1DE

*Allowed for consent
one-day workshop
on 06.05.2023.
Sifat Chatterjee
25/4/23*

Ref. No.

Date.....



To
The Principal
City College
102/1, Raja Rammohan Sarani
Kolkata-700009

25-04-2023

Subject- One day Workshop for 6th SEM ZOOA students on Apiculture as a part of 6th SEM ZOOA CU curriculum in Vidyanagar College on 06.05.23

Respected Sir,

We are glad to inform you that the Principal of our MoU partner Vidyanagar College, N.D Road, PIN- 743503 invited the Department of Zoology, City College for attending a workshop in their College Campus. All 6th SEM ZOOA students with three teachers will attend the workshop on 06.05.23. The concerned workshop will be conducted on studying the Apiary, which is being maintained in the Vidyanagar College.

This is for your kind perusal and necessary action

Regards

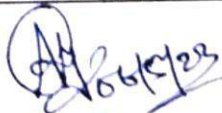
Yours sincerely
Supriya Saha
Dr Supriya Sarkar 257423
Head, Dept. of Zoology,
City College
Head, Department of Zoology
City College, Kolkata-700009

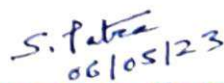


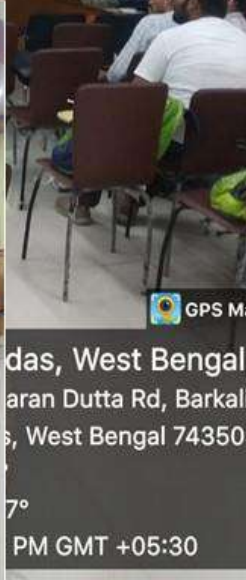
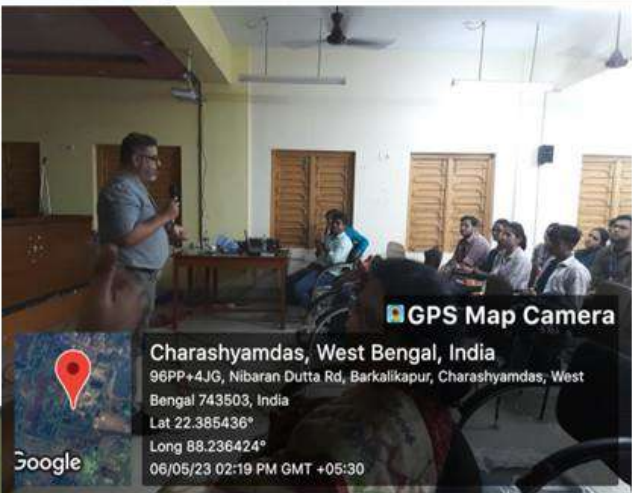
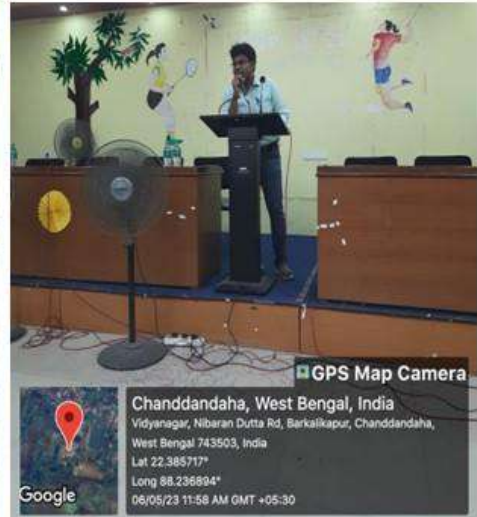
Sifat Chatterjee
Principal
CITY COLLEGE 25/04/2023
KOL-9

Name of Activity: Workshop on Foraging behaviour of Honey Bee and Bee-Culture Techniques			
Venue: Dept. of Zoology, Vidyanagar College			
Activity as a part of MoU between Vidyanagar College and City College			
List of Participants - 6th Sem Zoology Hons Students of City College, Kolkata - 09			
Sl No.	Name	Roll Number	Signature
1	Sounak Bera	201001	Sounak Bera
2	Aritra Bhattacharya	201003	Aritra Bhattacharya
3	Gourav Sengupta	201008	Gourav Sengupta
4	Subhamoy Bhattacharjee	201009	Subhamoy Bhattacharjee
5	Abhishek Dutta	201012	Abhishek Dutta
6	Anirban Mukherjee	201014	Anirban Mukherjee
7	Arindam Mudi	201015	Arindam Mudi
8	Bidesh Dey Kundu	201016	Bidesh Dey Kundu
9	Pritam Mondal	201023	Pritam Mondal
10	Sayan Bhattacharjee	201025	Sayan Bhattacharjee
11	Abhinav Rai	201026	Abhinav Rai
12	Subhajit Deb	201028	Subhajit Deb
13	Bikki Yadav	201029	Bikki Yadav
14	Debjyoti Das	201030	Debjyoti Das
15	Naini Mukherjee	201103	Naini Mukherjee
16	Pratiksha Chakraborty	201105	Pratiksha Chakraborty
17	Sharbani Pal	201106	Sharbani Pal
18	Soumyashree Bairagi	201108	Soumyashree Bairagi
19	Ishita Chakraborty	201110	Ishita Chakraborty
20	Moumita Roy	201109	Moumita Roy
21	Shrabanti Pal	201113	Shrabanti Pal
22	Anasua Rooj	201115	Anasua Rooj
23	Tanushree Mondal	201116	Tanushree Mondal
24	Pritika Dey	201119	Pritika Dey
25	Disha Saha	201118	Disha Saha
26	Sayani Bharati	201120	Sayani Bharati
Participating Teachers of Dept. of Zoology, City College		Resource Persons of Vidyanagar College	
1	Dr. Supriti Sarkar	1	Sri Amit Gayen
2	Dr. Debasish Karmakar	2	Dr. Sudipta Patra
3	Dr. Arkadeep Mitra	3	Sri Shantanu Halder

Supriti Sarkar
06/05/23
Arkadeep Mitra
06/05/23


A. K. Gayen
Asst. Prof.
Dept. of Zoology
Vidyanagar College
South 24 Pgs.


S. Patra
06/05/23
Dr. Sudipta Patra
Assistant Professor in Zoology
Vidyanagar college
Vidyanagar, 24 Pgs.(South), W.





Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
Chanddandaha, West Bengal 743503, India
Lat 22.385862°
Long 88.236473°
06/05/23 03:39 PM GMT +05:30



Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
Chanddandaha, West Bengal 743503, India
Lat 22.385862°
Long 88.236473°
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Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
Chanddandaha, West Bengal 743503, India
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Long 88.236562°
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Chanddandaha, West Bengal, India
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Chanddandaha, West Bengal 743503, India
Lat 22.385863°
Long 88.236471°
06/05/23 03:39 PM GMT +05:30



Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
Chanddandaha, West Bengal 743503, India
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Long 88.236473°
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Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
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Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
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Long 88.236432°
06/05/23 03:33 PM GMT +05:30



Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
Chanddandaha, West Bengal 743503, India
Lat 22.385863°
Long 88.236432°
06/05/23 03:33 PM GMT +05:30



Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
Chanddandaha, West Bengal 743503, India
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Long 88.236467°
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Chanddandaha, West Bengal, India
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Long 88.23652°
06/05/23 03:36 PM GMT +05:30



Chanddandaha, West Bengal, India
Vidyannagar, Nibaran Dutta Rd, Barkalikapur,
Chanddandaha, West Bengal 743503, India
Lat 22.385863°
Long 88.236432°
06/05/23 03:33 PM GMT +05:30

Brief Description: Experimental Learning through field work is a regular practice of the Department of Zoology in City College. Such an attempt to give exposure to 6th SEM Zoology Hons students about the social behavioural features of the Honey bee insect and their interesting pattern of nest/hive construction etc. was undertaken through a whole day workshop on Apiculture with the cooperation of Zoology Department of Vidyanagar College (our MoU Partner), N.D Road, Vidyanagar on 06.05.23.

In the Inaugural session, Principal, Co-ordinators of IQAC and NAAC Committee; Head and other Faculties of Zoology of the host college expressed warm welcome to the attendees from City College. In the Technical session Mr Amit Kumar Gayen vividly described the foraging behaviour of Local species of Honey bee with the help of Video photography prepared by them while bees were reared in the college campus. From his audio-visual presentation we all acquired the clear knowledge about the morphological differences of different castes of the social insects, peculiar body parts of honey bees used for collecting pollen and nectar from flowers etc. In this forenoon session, Mr Santanu haldar, the expert bee keeper cum Instructor of Apiary of Vidyanagar College delivered his valuable lecture on Apiculture and shared his long experiences on honey bee rearing in the artificial **Langstroth beehive, settled in** that college garden. The first session ended with refreshment provided by the host college to all participants.

- In the afternoon session Mr Haldar and other teachers demonstrated the detailed structure of the modular bee hives in boxes placed in the college garden with its different components like frames, foundations, bottom boards, brood boxes, honey supers etc. The series of combs composed of two layers of six-sided cells of varying sizes were made in the board. Smaller chambers are made for raising female worker bees, larger ones are for raising the male drones while Queen Chambers are the largest. Students had astonishing chances to handle different castes of honey bees by their own hands. The **Queen Excluder**: a grid of metal placed on top of the uppermost box through which the queen is allowed to roam; **Entrance Reducer**: a piece of wood which simply allow worker bees through, but too small for the queen and drones to pass through were also shown and described. How **bee wax** is produced and used to make the comb; how **propolis**, a sticky substance is manufactured by the worker bees from tree and plant resin was also demonstrated. Some foraging plants of worker bees like Mango, Jackfruit, citrus fruits and Nim trees etc were found in the college garden. After describing the social activities in life cycle of honey bee Mr Haldar demonstrated the method of honey collection by own hand. Students also performed mock practicing of honey collection with the help of smoker and face net etc.

In this workshop the study of Langstroth beehive with practical demonstration of Apiculture in a College Campus Apiary provided us the basic ideas related with nesting of common honey bees, social behavior of insects and honey collection as well. Such workshop also addressed the demands of honey bees culture in any suitable places with the investment of little financial assistance and less man power.