

DEPARTMENT OF ZOOLOGY

A Brief Activity Report on "One Day Workshop on Chronobiology"
organized by Department of Zoology, Vidyanagar College, Amtala, 24 Pgs (S), West Bengal, India, as an exchange program against signed **MoU** between Department of Zoology, City College, Kolkata and Department of Zoology, Vidyanagar College, Amtala, 24 Pgs (S), West Bengal, India



VIDYANAGAR COLLEGE

(ACCREDITED BY NAAC AND GRADED 'B+')

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

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

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Ref. No. :

Date : 24.05.2023

To
Dr. Debasish Karmakar
H.O.D, Dept of Zoology
City College,
102/1 Raja Rammohon Sarani
Kolkata – 700009

Sub: Invitation for a invitee lecture on ethology at Vidyanagar College

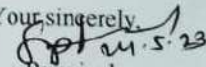
Dear Sir,

As part of MoU with your college we are inviting you for a special class on **Ethology** at our college on **26.05.2023 Friday**.

Hence it will be a great pleasure to invite you for a special class on **Ethology** with the students of Zoology in our college.

Thanking you.

Date: 24.05.2023

Your sincerely,

Principal

Vidyanagar College

Dr. S. P. Agarwala
Principal
Vidyanagar College
South 24 Parganas

Workshop on "Chronobiology"

*For Students of 6th Semester Zoology Honours of Vidyanagar College
Organized by
Department of Zoology, Vidyangar College*

Date: MAY 26th, FRIDAY, 2023
Time: 12.00 pm onwards



SPEAKER

Dr. Debasish Karmakar
Assistant Professor
Department of Zoology
City College
102/1, Raja Rammohan Sarani,
Kolkata-700009, West Bengal

An endeavour as a part of Academic Memorandum of
understanding between Dept. of Zoology, Vidyanagar College
and Dept. of Zoology, City College

- ♣ **Date of Workshop:** 26/05/2023 (Friday) – 12:00 Noon Onwards
- ♣ **Place of Workshop:** Department of Zoology, Vidyanagar College, Amtala, 24 PGs (S), West Bengal, India
- ♣ **Resource Person:** Dr Debasish Karmakar, Assistant Professor in Zoology, City College, Kolkata
- ♣ **No. of Participants:** 14 (Semester – VI, Zoology Honours Students of Department of Zoology, Vidyanagar College, Amtala, 24 PGs (S), West Bengal, India)

Summary

This "One Day Workshop on Chronobiology" was organized as a part of the MoU signed between the Department of Zoology, City College, Kolkata and the Department of Zoology, Vidyanagar College, Amtala, 24 PGs (S), West Bengal, India, to enlighten the students of Semester – VI, Zoology Honours, Department of Zoology, Vidyanagar College, Amtala, 24 PGs (S), West Bengal, India, on various aspects of theoretical as well as hands-on practical components of their academic curricula of the Paper – ZOOA-DSE(B)-6-1 [Animal Behaviour and Chronobiology]. Dr Debasish Karmakar, Assistant Professor, Department of Zoology, City College, Kolkata, extended his around 3 hours long deliberation on the following topics – 1. Patterns of Animal Behaviour – a General Account; 2. Sexual Dimorphism and Mate Selection in Pea-Fowl; and 3. Male-Male Rivalry in Red Deer and demonstrated some hands-on training on 1. The behavioural responses of wood lice to dry and humid conditions; 2. The study of the Geotaxis behaviour in earthworm; and 3. The study of the Phototaxis behaviour in insect larvae. The students felt delighted to attend this day-long workshop on Chronobiology and expressed their heartfelt satisfaction towards the popular and lucid deliberation, delivered by Dr Karmakar. This kind of collaborative exchange programmes are always truly beneficial for both the participating institutes.

PART III: SEMESTER 6		
DSE1. Animal Behaviour and Chronobiology		
ZOOA-DSE(B)-6-1-TH		
Full Marks 50	4 Credits	50 Hours
Unit 1: Patterns of Behaviour		10
Stereotyped Behaviours (Orientation, Reflex); Individual Behavioural patterns; Instinct vs. Learned Behaviour; FAP, Associative learning, classical and operant conditioning, Habituation, Imprinting.		
Unit 2: Social and Sexual Behaviour		20
Social organisation in termites; Communication (dance & pheromones in Bees) Social behaviour: Altruism (Hamilton's rule and concept of haplodiploidy), Cooperation and Selfishness Sexual Behaviour: Sexual dimorphism, Mate choice in peacock, Intra-sexual selection (male rivalry in red deer)		
Animal Behaviour and Chronobiology Lab, ZOOA-DSE(B)-6-1-P		
Full Marks 50	60 Hours	2 Credits
List of Practical		
<ol style="list-style-type: none"> 1. To study nests and nesting habits of the birds and social insects. 2. To study the behavioural responses of wood lice to dry and humid conditions(demonstration only). 3. To study geotaxis behaviour in earthworm. 4. To study the phototaxis behaviour in insect larvae. 5. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park to study behavioural activities of animals and prepare a short report. 6. Study of circadian functions in humans (daily eating, sleep and temperature patterns). 		



Some Glimpses of "One Day Workshop on Chronobiology" at Department of Zoology, Vidyanagar College, Amtala, 24 PGs (South), West Bengal, India