

Addon Course on:

***“Knowing the Eventualities of Snake Bite and Analysis of Pug Marks:
Two Social Awareness Endeavour”***



OFFERED BY:

THE DEPARTMENT OF ZOOLOGY,
GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY
VILLAGE: TILABONI MAHISHAMURA, P.S. KESHIARY
DIST. PASCHIM MEDINIPUR, PIN 721135

FOR:

THE STUDENTS OF LIFE SCIENCES,
CHEMICAL SCIENCES,
ARTS & HUMANITIES,
GGDC, KESHIARY



Department of Zoology
Government General Degree College, Keshiary

Tilaboni Mahishamura P.S. Keshiary, Dist. Paschim Medinipur, PIN 721135

Value Added Course on:

“Knowing the Eventualities of Snake Bite and Analysis of Pug Marks: Two Social Awareness Endeavour”

Introduction:

According to reports in different media, it has been estimated that each year, nearly five million snake bites occur worldwide, while 81,000 to 138,000 people die and about 400,000 people are left with disabilities and perpetual health problems. India being a tropical country is a natural abode for nearly 300 species of snakes of which 60 species are reported to be venomous. The toll due to snake bite in India is conspicuous as the art of snake bite management is largely shrouded in mystery and misinformation in this land. Similarly, pug-mark analysis is an essential and easy tool to understand the prevalence of a species and to account the biodiversity of a region.

The Department of Zoology, GGDC, Keshiary within its limited scope has thus taken up the challenge to induct a value-added course on “*Knowing the Eventualities of Snake Bite and Analysis of Pug Marks: Two Social Awareness Endeavour*” utilizing its own laboratory facilities. The course would empower the young graduates to understand the art of management of a snake bite victim. The training would make the students aware of the methods involved in identifying a venomous or a non-venomous snake and simultaneously remove the misconception associated with the myth of snake bite in the society. Knowing the art of pug-mark analysis would make them aware of the methods involved in identifying animals from their foot prints. This would help them to know their biodiversity better which would be beneficial for the nature as well as the society.

Aims and objectives:

- i. To train students on the methods involved in identification of venomous and non-venomous snakes and snake bites.
- ii. To generate the basic expertise in handling a victim of snake bite and to train them to manage the eventualities avoiding unscientific approaches
- iii. To make the trainee understand the basics of pug mark analysis
- iv. To make a trainee aware of the need to conserve biodiversity of a given region and to take a note on the pug mark-based biodiversity analysis.

Duration of the course:

The course would be conducted for not less than 30 hours over a period of three months.

Admission Procedure:

Candidates for admission to the course should be students of the Government General Degree College at Keshiary, Paschim Medinipur. Interested students from the departments of Life Sciences, Chemical Sciences and Arts and Humanities can apply for admission at the time of notification in the prescribed form. Certificates would be issued to the candidates on successful completion of the course.

Contact Information:

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Course objectives:

- i. To make a trainee able to identify venomous and non-venomous snakes and snake bite marks
- ii. To make a trainee aware of the snake bite event management avoiding unscientific methods
- iii. To make a trainee accustomed to pug mark-based animal identification and biodiversity analysis

Syllabus:

“Knowing the Eventualities of Snake Bite and Analysis of Pug Marks: Two Social Awareness Endeavour”

Sl. No.	Topics	Assigned hours
1.	Types of snakes available in India: an introduction	1 hr
2.	Methods involved in identification of venomous and non-venomous snakes	2 hrs
3.	Myths and mysteries associated with snake bite eventualities	2 hrs
4.	First aid to snake bite victims and seeking medical support	2 hrs
5.	Visit to health center to meet the experts and practitioners	4 hrs
6.	Visit to nearby village(s) to understand the prevailing awareness of snake bite eventualities and to make them aware of the scientific/medical attention required	4 hrs
7.	Introduction to Pug Mark Analysis	2 hrs
8.	Methods involved in casting of different pugmarks in laboratory	(1 x 5) hrs = 5 hrs
9.	Methods involved in casting of pugmarks in field	(1 x 5) hrs = 5 hrs
10.	Application of pug mark analysis in accounting local biodiversity and its conservation	3 hrs

Selected reference books:

1. Whitaker, R. and Captain, A. Snakes of India, The Field Guide, Westland/Draco Books, 2016.
2. STANDARD TREATMENT GUIDELINES. Management of Snake Bite. Ministry of Health & Family Welfare, Government of India, 2016.
3. Guidelines for the management of snakebites, WHO, 2nd edition, 2016.

Outcome of the course:

- i. Trainee would be able to identify venomous and non-venomous snakes and snake bite marks.
- ii. Trainee would be aware of the misconception associated with snake bite treatments
- iii. Trainee would be aware to manage the situation in case of an unfortunate event of snake bite
- iv. Trainee would be able to spread the knowledge on snake bite management in the society
- v. Trainee would be able to identify animals on the basis of pug mar analysis
- vi. The trainee would be able to assess the biodiversity of a geographical region based on pug-mark identification