

"Education through self-help is our motto" – Karmaveer

Estd: 1968

Rayat Shikshan Sanstha's,



D.P. Bhosale College, Koregaon

Tal. Koregaon, Dist.- Satara, 415 501, Maharashtra (India)

☎ (02163) 220219 Email- dpbckoregaon@gmail.com Website - www.dpbck.ac.in

Arts, Commerce, Science, BCA, B.Voc. (Sust. Agri.)

NAAC Reaccredited: 'A' Grade with CGPA 3.12

ISO 9001: 2015 Certified

Affiliated : Shivaji University, Kolhapur * Uni. Affil. No. UKF/7569/11529-y

* Jr. College Index No. J21.05.001

Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No. : 3048 - 2022-23

Date : 14/03/2023

प्रती,

मा. सहसचिव (उ.शि.)

रयत शिक्षण संस्था, सातारा,

सातारा.

विषय: सन २०२२-२३ वर्षासाठी शैक्षणिक सहलीस परवानगी मिळणे बाबत

महोदय,

उपरोक्त विषयास अनुसरून शिवाजी विद्यापीठ कोल्हापूर यांच्या अभ्यासक्रमानुसार शैक्षणिक सहल अनिवार्य असल्याने सन २०२२-२३ मध्ये महाविद्यालयातील प्राणीशास्त्र विभागातील बी. एस्सी. भाग १, २ व ३ मधील विद्यार्थ्यांची शैक्षणिक सहल **मालवण-सिंधुदुर्ग-तारकली** याठिकाणी दि. २०/०३/२०२३ व २१/०३/२०२३ रोजी आयोजित केली आहे सदर शैक्षणिक सहलीस आपली परवानगी मिळावी हि विनंती

कळावे,

आपला विश्वासू



प्राचार्य,
डी. पी. भोसले कॉलेज,
डी. पी. भोसले कॉलेज, कोरगाव

कार्यालय: १५/३/२३
रयत शिक्षण संस्था, सातारा
पिन कोड नं. ४१५ ००९:



Rayat Shikshan Sanstha's

D.P. Bhosale College, Koregaon

Department of Zoology

NOTICE

2022-23

Date:- 05/03/2023

All the students of B.Sc. I, B. Sc. II and B.Sc. III are hereby informed that as per the University Practical Curriculum their Compulsory Educational Tour will be organized on **Monday, 20/03/2023 and Tuesday, 21/03/2023** at **Malvan, Tarkarli and Sindhudurg**. All students should submit Rs. 2000/- to Miss. N.A. Shaikh before 15 March 2023.

Incharge

Head

Department of Zoology
D. P. Bhosale College Koregaon

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* Jr. College Index No. J21.05.001

Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No. : 3047 / 2022-23

Date : 14/03/2023

प्रति,

मा. आगारप्रमुख,

महाराष्ट्र राज्य परिवहन महामंडळ,

सातारा - ४१५००१

विषय :- शैक्षणिक सहलीस एस. टी. बस मिळणेबाबत..

महोदय,

वरील विषयास अनुसरून आमच्या महाविद्यालयातील प्राणिशास्त्र विभागाने दोन दिवसीय शैक्षणिक सहल 'मालवण -सिंधुदुर्ग -तारकली' येथे दिनांक २० व २१ मार्च २०२३ रोजी आयोजित केली आहे. सदर सहलीसाठी १७ मुले, २५ मुली व ३ शिक्षक असे एकूण ४५ जणांचा सहभाग असेल.

तरी सदर सहलीसाठी आम्हाला उत्तम बस व अनुभवी चालक मिळावा ही विनंती.

Received
12/3/2023
Dr. S.



कळावे,

PRINCIPAL,

D. P. Bhosale College,

डी. पी. भोसले कॉलेज, कोरेगांव



Rayat Shikshan Sanstha's

D.P. Bhosale College, Koregaon

Department of Zoology

NOTICE

2022-23

Date:- 17/03/2023

All the teaching faculty of B.Sc. Part I and II are hereby informed that Department of Zoology organizes their Educational Tour on **Monday, 20/03/2023** at **Malvan, Sindhudurg and Tarkarli**. All faculty are here by informed that students should remain absent for their respective theory and practical on that day only.

Head,

Department of Zoology

Head, Department of Botany

Head, Department of Chemistry

Head, Department of English

Head, Department of Microbiology

Head, Department of Physics

Rayat Shikshan Sanstha's Satara
D.P. Bhosale College, Koregaon.
Department of Zoology
List of Students

Sr.No.	Name of the Student	Place	Mob.No.	Class
1	Kedar Popat Ghorpade	Saigaon	8010033289	B.Sc.I
2	Omkar Chandrakant Mane	Pusegaon	9175473463	B.Sc.I
3	Pranay Shankar Chavan	Phadatarwadi	9579651101	B.Sc.I
4	Om Rajendra Chavan	Chimangaon	9404368601	B.Sc.I
5	Rajdeep Dipak Kamble	Tadwale	9145464216	B.Sc.I
6	Vasim Mahamud Pathan	Rahimatpur	9834674208	B.Sc.I
7	Shivam Dinesh Surywanshi	Wai	9665919229	B.Sc.I
8	Ashish Shankar Gaikwad	Chimangaon	7058773553	B.Sc.II
9	Avantika Anil Mane	Lhasurne	7276709078	B.Sc.II
10	Amruta Kiran Ghorpade	Jamb KR	7558425131	B.Sc.II
11	Sanika Dhananjay Bansode	Lhasurne	9359071979	B.Sc.II
12	Vaishanavi Bhupesh Disale	Koregaon	7387169534	B.Sc.II
13	Vrushali Chandrakant Kamble	Wathar	8767228374	B.Sc.II
14	Amruta Suresh Bhosale	Kinhai	9730425905	B.Sc.II
15	Aishwarya Dipak Godase	Shirambe	9970727562	B.Sc.II
16	Vaishanavi Kiran Yadav	Arvi	9556714547	B.Sc.II
17	Anushka Ram Waydande	Khanerkhed	9405301506	B.Sc.II
18	Akash Rajendra Yadav	Koregaon	7888018120	B.Sc.I
19	Isha Sudhir Kshirsagar	Koregaon	8177982960	B.Sc.III
20	Jyoti Pradip Shelar	Koregaon	9284229964	B.Sc.II
21	Museb Shabbir Attar	Rahimatpur	8766831381	B.Sc.III
22	Sujal Sharad Pawal	Ekambe	9175627417	B.Sc.I
23	Godase Rutuja Dilip	Godasewadi	9067596317	B.Sc.II
24	Sutar Harshada Dnyandev	Koregaon	9890821835	B.Sc.II
25	Amrapali Dipak Kamble	Tadwale	8010453240	B.Sc.I
26	Sanika Sandip Kamble	Ekambe	8983139241	B.Sc.I
27	Pranali Sanjay Kadam	Chanchali	9360392560	B.Sc.I
28	Arpita Ganesh Mane	Golewadi	8888775756	B.Sc.I
29	Saniya Yasmin Mulani	Golewadi	9699862731	B.Sc.I
30	Ankita Amrut Kadam	Khed	9766763950	B.Sc.I
31	Bhagyashri Shivaji Bhosale	Pandharwadi	9975718437	B.Sc.I
32	Parchi Vinayak Dalavi	Koregaon	7558225924	B.Sc.I
33	Prajwal Dattatray Nikam	Ambheri	8263832261	B.Sc.III
34	Shradha Dipka Barge	Koregaon	8028463882	B.Sc.III

35	Kedar Ramesh Jagtap	Koregaon	9373455859	B.Sc.III
36	Rushikesh Vilas Nikam	Koregaon	7038608589	B.Sc.III
37	Vivek Pralhad Kadam	Kinhai	7786440029	B.Sc.III
38	Nikhil Dilip Madane	Vardhangad	8767782305	B.Sc.II
39	Prajakta Vikas Jadhav	Jambh Khurd	9322039431	B.Sc. II
40	Nandukrishna Anil Makeri	Koregaon	8317305242	B.SC. II
41	Rutuja Pradip Shelar	Koregaon		B.Sc. I
42	Nikita Nandkumar Jagadale	Kolawadi Vatha	9322047708	B.Sc.II
43	Dr. S. P. Nalawade	Faculty		
44	Miss N.A. Shaikh	Faculty		
45	Mr. S.V.Makhare	Faculty		

Nalawade

Head
Department of Zoology
D. P. Bhosale College Koregaon



Rayat Shikshan Sanstha's

D.P. Bhosale College, Koregaon

Department of Zoology

NOTICE

2022-23

Date:- 18/03/2023

All the students of B.Sc. I, B.Sc. II and B.Sc. III are hereby informed that their Compulsory Educational Tour organized on **Monday, 20/03/2023** at **Malvan, Sindhudurg and Tarkarli**. All students are here by informed that they should remain present at **College at 4.00 am**. It may clearly noted that fine will be collected from absent student.

Incharge

Head,

Department of Zoology



Rayat Shikshan Sanstha's

D.P. Bhosale College, Koregaon

Department of Zoology

Excursion Report on Visit to Malvan, Tarkarli and Sindhudurg

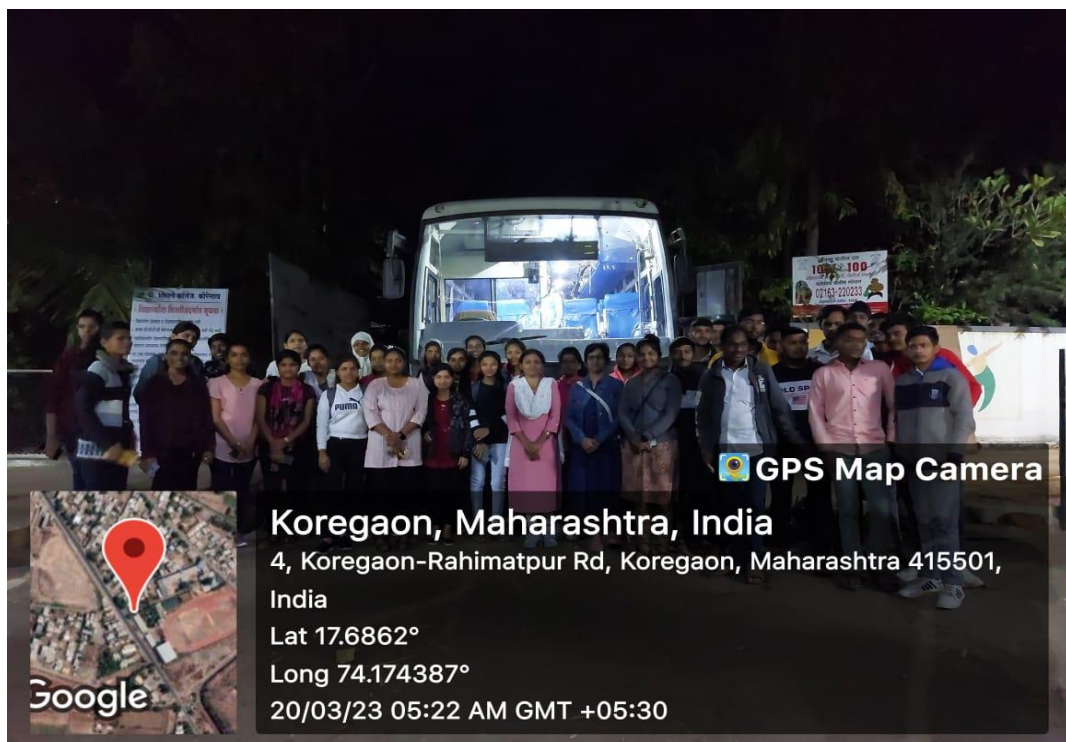
Visit to Sea shore is compulsory as per the Shivaji University, Kolhapur Zoology Practical Curriculum. Department of Zoology organised educational tour at Malvan, Tarkarli and Sindhudurg; with the prior permission of Rayat Shikshan Sanstha Satara. The destination is about 292 km away from the Koregaon.

Days of Visit :- Monday, 20/03/2023 & Tuesday, 21/03/2023.

No. of students participated in study tour :- 42

Faculties - 03

Time of Departure and Arrival: We left Koregaon by S.T. bus early in the morning at 05.00 am and reached to Malvan at 03.00pm. We started return journey on second day at 2.00 pm and reached to Koregaon at 11.30pm.



Aim of excursion: - The main objective of the study tour was to get detail knowledge about types of beaches and to study fauna of different shores.

Students can study the different aspects of the Zoology by arranging excursion tour. The richest biodiversity can be studied through excursion. Excursion gives us of opportunity of study various animals in their natural habitat.



On our journey we visited Radhanagari Wildlife Sanctuary . Radhanagari Wildlife Sanctuary is situated in greenly ranges of Sahaydri of Western Ghat in Kolhapur District. Western Ghat which is well acquainted as a one of the most vulnerable and delicate hot spots of the biodiversity's in the world. is situated in greenly ranges of Sahaydri of Western Ghat in Kolhapur District. Western Ghat which is well acquainted as a one of the most vulnerable and delicate hot spots of the biodiversity's in the world. Radhanagri Wildlife Sanctuary is abode of variety of wild



animals and extremely rich flora and fauna.

Radhanagari Wildlife Sanctuary is home of variety of wild animals. Out of the 47 species of mammals recorded in this area, 7 species of mammals are of endangered status, namely Tiger, Leopard, Sloth Bear, Bison, Mouse Deer and Pangolin. There are as many as 264 species of avifauna recorded in the sanctuary. There are 59 species of reptiles, two of which are of endangered status namely Indian Python and Indian Monitor Lizard.

Many animals show adaptations to habitat, where they live, some show adaptations in changing environment. The functioning of ecosystem is better studied by visiting particular ecosystem. We left Radhanagari by observing museum and reached to Malvan where we saw zones of Sea.



Marine habitat having Following Zones

1. **Supratidal Zones** – it is uppermost zone of the benthic water habitat (Above the high trademark)
2. **Intertidal Zones** – it is area between the upper and lower tide level. Maximum plants & animals are exposed to alternate aquatic and areal conditions. The fauna of the intertidal zones depends on the substratum such as rocky shore, muddy shore & sandy shore.
3. **Subtidal Zone** – It lies the inter tidal zone and extends from low tide mark to 200m depth.
4. **Bathyal Zone** – it occurs along continental slope i.e. from 200m depth to about 3000-4000m.
5. **Abyssal Zone** – it lies shown below 4000m to 5000m.

The oceanic water habitat again classified in to two major habitat viz. Neritic water habitat and Oceanic water habitat.

1. **Neritic water Habitat** – it is also called as coastal water habitat. It is above the continental shelf along shore line and up to 200ml depth.
2. **Oceanic Water** -it is divided into several sub zones
 - A) Epipelagic water – it is top most zone extending from 200 metre to 1000 metre depth of water.
 - B) **Meso pelagic Zones** – It extends from 1000 metre to 4000 metre depth of water.
 - C) **Bathyl pelagic Zones** – It extends from 1000 metre to 4000 metre depth of water.
 - D) **Abvssso pelagic Zone** – it is the deepest water Zone extending below 4000 metre depth.
- A) **Fauna of the Rocky Shore** – At Sindhudurg and Rock Garden Shores we observed rocky pools, submerged rocks which are never exposed rocks that are never submerged even at high tides and rocks loose stones situated on the shore line are not dislodged by the action of wave.

The animals we seen hare as follows

- | | |
|------------|----------------------|
| 1) Patella | 7) Mytilus |
| 2) Balanus | 8) Trochus |
| 3) Crabs | 9) Painted Topshells |
| 4) Snails | 10) Bugula |
| 5) Limpets | 11) Coral |
| 6) Mussels | 12) Sepia |



B) Fauna of Sandy Shore

We also visited sandy Shores of Devbag & Tarkarli . A sandy shore present more or less uniform conditions to live in and at all the same time offers no surface of attachment most of the sand dwelling marine animals burrowing forms (Crustacean mollusc). The bivalve, molluscs shells are most perfectly adapted for life in the soft substratum.

A few specialized echinoderms & some animals observed are as follows:

- | | |
|--------------------------------------|---------------|
| 1) Common shrimps (Gastropod Shells) | 5) Tellina |
| 2) Hermit Crab | 6) Psuedoeris |
| 3) Sepia shells | 7) Murex |
| 4) Solen | 8) Dentalium |

Adaptation of Rocky Shore Animals: (Sindhudurg & Rock Garden Shores)

The solid bottom offered by rocky shores is often invaded by a number sessile forms for they provide secure places for attachment. The sedentary or sessile lives have brought about several morphological changes in animals inhabiting the rocky coasts.

They are as follows

- The loss of locomotory organs e.g. Mytilus
- The mouth and Anus are brought to the same level e.g. Ascidians
- Development of rapid power of Contraction, when conditions, become unfavourable e.g. rock Barnacle
- Sea anemone are firmly lodged with the help of the pedal disc.
- The presence of the cement gland near the base of stalk helps the balance to attach itself to the rock.
- So as to protect from tidal wave action, most of the animals lives in the crevices.

Adaptation of Sandy Shore Animals:(At Devbag & Tarkarli Beach)

The sandy shore animals shows following adaptations so as to adapt their habitat.

- So as to protect themselves from tide waves as well as the force of receding waves, they burrows themselves. This also helps to escape from the evil effects of desiccation, lowered salinity and extreme of temperature.
- For burrowing mode of life they have developed certain common features such as digging organs, ciliary mode of feeding & several respiratory devices.

- Most of them feeding on the decomposing organic matter present in the sand, while some feeds on debris floating in water and carried by current of water.
- The movements of small spines or tubes in the arms helps them to move in water e.g. star fish.
- Most of sand dwellers are having protective colours
- Many sea anemone build tubes in sand within they retract completely.



Marine Habitat

The marine habitat includes oceans seas, seashores, bays and estuaries of the world. It is the largest of all habitat which covers about 70% of the earth surface. Oceans is great salt -water body, surrounded the land of the globe. The geographers have divided the oceans into five areas viz. Artic (Northern oceans), Atlantic, Pacific, Indian and Antarctica Ocean. The Indians and Antarctica Ocean (Southern ocean) The Indians Ocean is the smallest while the pacific is the largest. The sea is an expanses of salt water that covers most of the earth surface and encloses its continuous and island e.g Mediterranean Sea, red sea, Arabic sea. Bay is the part of sea filling wide mounted opening of land e.g. Bay of Bengal, Hudson Bay. Estuary is the junction of salt water with fresh water.

Tides :- The surface of the sea rises and falls twice a day . This rise and falls of water is called tide. Tide are produces by the pull of moon and sun. water may rise to the height of about 50 ft. tides occurs daily every two weeks we get very big tides. The tides effects mainly the shrug word zones, where marine life is varied dense.

After visiting all these shores students left Malvan at afternoon 2.00pm and reached Koregaon at 11.30 pm. With plenty of information students enjoyed the educational tour at Malvan, Tarkarli, Devbag and Sindhudurg.

Qualawadi

Head
Department of Zoology
D. P. Bhosale College Koregaon