



K.L.E. Society's

BASAVAPRABHU KORE COLLEGE, CHIKODI

(Accredited at 'A' grade by NAAC with CGPA of 3.26 in the third cycle)

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DEPARTMENT OF ZOOLOGY

B.Sc Fifth Semester

2019 - 2020

REG NO: 51715612

ROLL NO: 145

CERTIFICATE

Date: 15th October 2019

This is to certify that Mr / Miss Akshata A. Upadhye of BSc Fifth semester has satisfactorily completed the field visit as prescribed in the practical syllabus of Rani Chennamma University Belagavi, during the academic year 2019 -2020.


Staff-member in-charge


Head of the Department
HEAD
DEPARTMENT OF ZOOLOGY

Examiners

(1) Valued

31/10/19

(2) Pras

31/10/19

K.L.E.SOCIETY'S
BASAVAPRABHU KORE ARTS, SCIENCE AND COMMERCE COLLEGE, CHIKODI

List of the students of 2019 - 20 who have participated in the tour

Sl. No	Roll No	Gender	Name of the student	Sex	Category
1	145	MISS	AKSHATA AJIT UPADHYE	F	III-B
2	146	MISS	AKSHATA ANIL MIRJE	F	III-B
3	147	SRI	ANIKET KALLAPPA BEKKERI	M	II-A
4	148	MISS	APURVA PRAKASH PATIL	F	III-B
5	149	MISS	JASMIN RASHID TAMBOLI	F	II-B
6	150	MISS	JAYASHREE APPASAHEB MALI	F	II-A
7	151	MISS	LAXMI MALLAPPA METRI	F	III-B
8	152	MISS	PALLAVI ASHOK THORUSHE	F	III-B
9	153	MISS	POOJA RAJSHEKHAR PUJARI	F	II-A
10	154	MISS	PRACHI BASAVARAJ PATIL	F	GM
11	155	MISS	PRAJAKTA ARUN LATAWADE	F	III-B
12	156	SRI	SACHIN RAMU KORE	M	III-B
13	157	MISS	SAMAREEN JAHANGIR JAMADAR	F	II-B
14	158	MISS	SHIVANI MALLAPPA METRI	F	II-A
15	159	SRI	SHUBHAM RAMACHANDRA JAKATE	M	III-B
16	160	MISS	SOUMYA SAGAR SHEDBALE	F	III-B
17	161	MISS	TANUJA APPASAHEB SHINDHE	F	III-B
18	162	MISS	AKSHATA ANAND WALAKE	F	II-A
19	163	SRI	AROODH MALLIKARJUN MALLAPURE	M	III-B
20	164	MISS	BHAVANA CHANDRAKANT SARAPURE	F	III-B
21	165	MISS	CHAITRA APPAYYA MATHAPATI	F	III-B
22	166	MISS	CHAITRA GOPAL MUKKANAVAR	F	CAT-I
23	168	MISS	LAXMI KUMAR KAMATE	F	II-A
24	169	MISS	LAXMI MALLAPPA DEVANGOL	F	II-A
25	170	SRI	MANJUNATH MAHADEV BHOJE	M	II-A
26	171	MISS	MEGHASHRI GAJANAN GUNDAKALLE	F	III-B

Sl. No	Roll No	Gender	Name of the student	Sex	Category
27	172	MISS	POOJA GOVIND RAVAN	F	III-B
28	173	SRI	PRATIK SHASHIDHAR KATTIMANI	M	III-B
29	174	SRI	PREETAM ASHOK PAWAR	M	III-B
30	176	MISS	PRIYANKA RAJU HALIJOL	F	II-A
31	177	MISS	RAKSHATA VILAS KAMATE	F	III-B
32	178	MISS	REVATI RAJU KHOT	F	III-B
33	179	MISS	ROHINI LAXMAN MOLAKE	F	III-B
34	180	MISS	SANDHYA SHIVANAND KAMBAR	F	II-A
35	181	MISS	SAPANA VIDYASAGAR SHIRAGUPPE	F	III-B
36	182	MISS	SAVITA RAVINDRA PATIL	F	III-B
37	183	MISS	SAVITA SIDDAPPA HALAKARNI	F	III-B
38	185	MISS	SHWETA ASHOK KOLI	F	CAT-I
39	186	SRI	SONAL GANAPATI MALI	M	III-B
40	187	MISS	SONALI SANJAY BANDAGAR	F	II-A
41	188	MISS	SUSHILA RAMAYYA HIREMATH	F	III-B
42	190	MISS	VACHANA RAMACHANDRA KOLKAR	F	SC
43	191	MISS	VARSHA KALLAPPA KARAGAR	F	II-A
44	192	MISS	VINAYA ANNASAHEB GHARABUDE	F	III-B
45	210	MISS	ARATI VISHWANATH CHOUGALE	F	III-B
46	211	MISS	RUTUJA SANJU PATIL	F	III-B
47	212	SRI	CHETAN SURESH SADALAGE	M	III-B
48	214	MISS	SAKSHI SANJEEV MAHISHALE	F	III-B
49	236	MISS	PREETI LAXMAN WADER	F	II-A
50	237	SRI	RAGHUNATH ANNASAB PAWAR	M	III-B
51	238	MISS	NIKHITA SAMBHAJI BAMANE	F	SC
52	239	MISS	RASHMI RAJENDRA TAMADADDI	F	III-B
53	240	MISS	JYOTI MARUTI BORAGANVE	F	III-B
54	241	MISS	POOJA SANJAY KHOT	F	III-B

INTRODUCTION

We planned a field visit which is compulsory according to our practical syllabus. Studying in class rooms is not enough, at least in some portion of the syllabus. Class room study may not expose us to a reality. During the class room teaching we will just imagine concepts, but study tours turn those imaginations into reality. Against this backdrop, observations in the field is necessary and helps us to understand the 'nature' in a better way and expand our thinking and understanding capacity. This study tour has helped us for real 'experiential learning'

TOUR PROGRAMME

As it is two day visit, we confined our visit to Ganapati pule and Mahabaleshwar. Both are situated amidst evergreen forest and hence we could get more exposure to study the forest ecosystem. The study tour was conducted on 1st and 2nd of October 2019. Mahabaleshwar is a small town located in Satara district of Maharashtra state. It is a hill station located in the Sahyadri mountain range with 'green umbrella' of evergreen forest. So we selected it to study the forest ecosystem. We left Chikodi on 1st of October 2019 (morning at 7 am). We stayed in Ganapati pule and continued our journey on the next day morning and reached Mahabaleshwar. We had an opportunity to witness the natural forest ecosystem. We returned back and reached Chikodi on 3rd October 2019 morning.

DESCRIPTION ABOUT THE ECOSYSTEM BY OUR TEACHER

Our teacher Miss Trupti P Khidrapure explained the concepts like (a) Forest as an ecosystem (b) Types of forests: depending on the prevailing climatic conditions forests, the most important type is *Broad leaved forest*. It is the type of forest which include further types like Evergreen forest and deciduous forest.

She also explained about the components of forest ecosystem: biotic and abiotic factors. With examples amidst the forest, she explained biotic factors like (1) Producers: these are mainly trees, including small herbs, shrubs and trees (2) Consumers: these are in turn divided into a. Primary consumers: which directly feed on plants. Ex grass hoppers, Deers etc. b. Secondary consumers: these are the animals which feed on primary consumers ex. Snakes, lizards etc. c. Tertiary consumers: they consume secondary consumers. Ex Lion, Tiger etc. (3) Decomposers: these are wide variety of micro-organisms including Fungi, bacteria etc. Abiotic factors: It include organic and inorganic substances present in the soil, some trace elements, rocks and mountains.

OBSERVATIONS

We visited evergreen forests i.e broadleaved forest. It had very high humidity, high temperature, maximum rainfall which favours the growth of trees and contributes for huge diversity of flora and fauna. Different forms of life's occupy special areas within different layers and spaces of ecosystem depending upon their food, sunlight, water, nutrients etc.

We observed vertical stratification (distribution) of animals in the forest community.

Vertical stratification (arrangement) in the forest of Mahabaleshwar mainly consist of five layers.

- 1. Upper most layer consisting of trees, which is occupied by animals like, monkeys and loris etc.**
- 2. Second layer was of Shrubs, occupied by animals like squirrels, Deer, wild pigs etc.**
- 3. Herbs: occupied by plant eating insects and spiders etc.**
- 4. Forest floor: lowermost visible layer of forest including animals like fungi, bacteria, leech, earthworms etc.**

Ecosystem operates in a well balanced way maintaining its food chain indicating the dependency of one animal with the other. If any of the components of a system is disturbed then the whole ecosystem will be disturbed. We witnessed how one plant is interdependent on each other and more so with one animal with the other in the natural forest ecosystem. This is the truth of interdependence of a plant and plant, animal and animal and plants and animals.

We could also see the disturbance and inconvenience caused by a few human beings. In some places in the forest, we could see plastics. Our teacher explained about the human beings is exploiting the nature for economic growth.

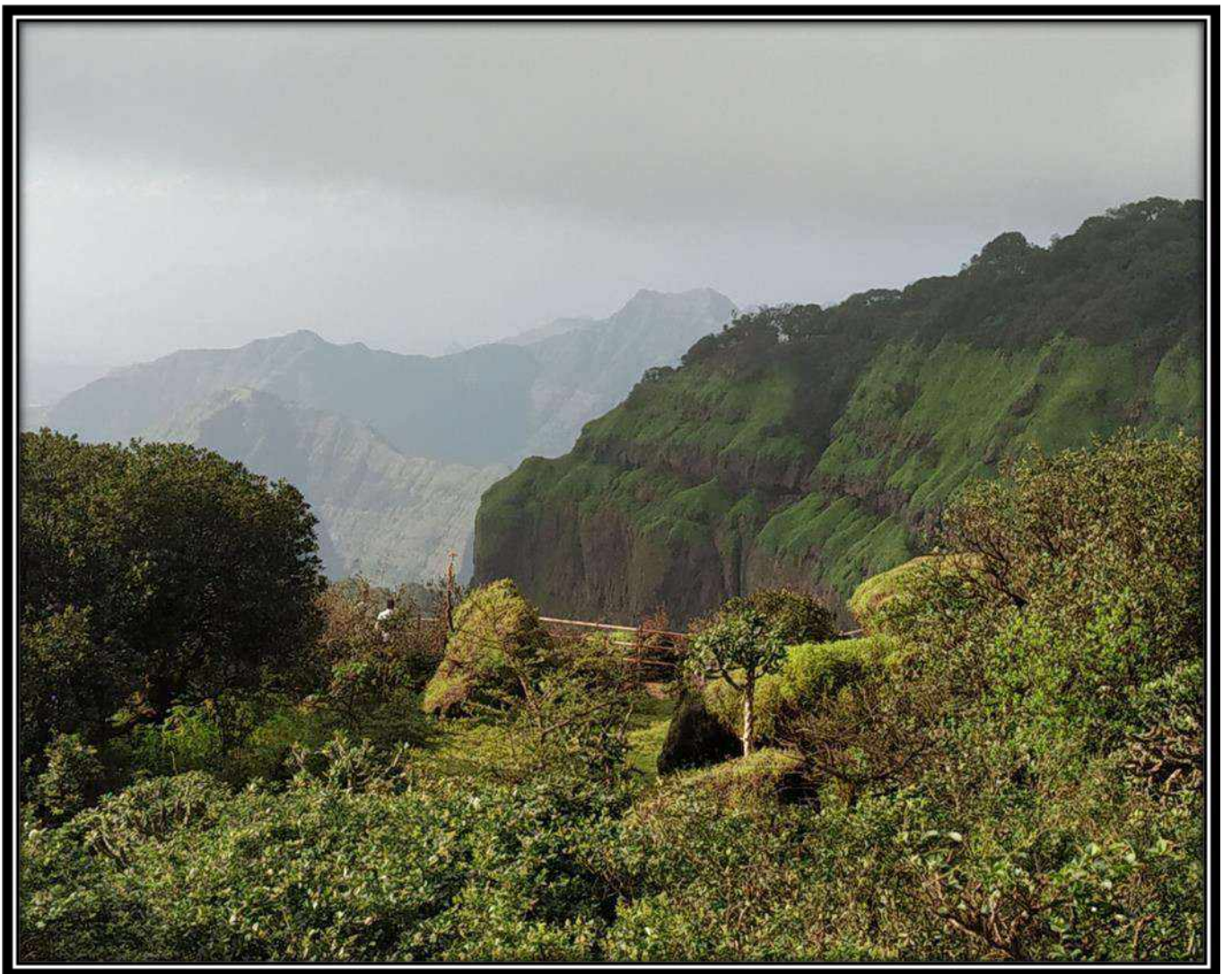
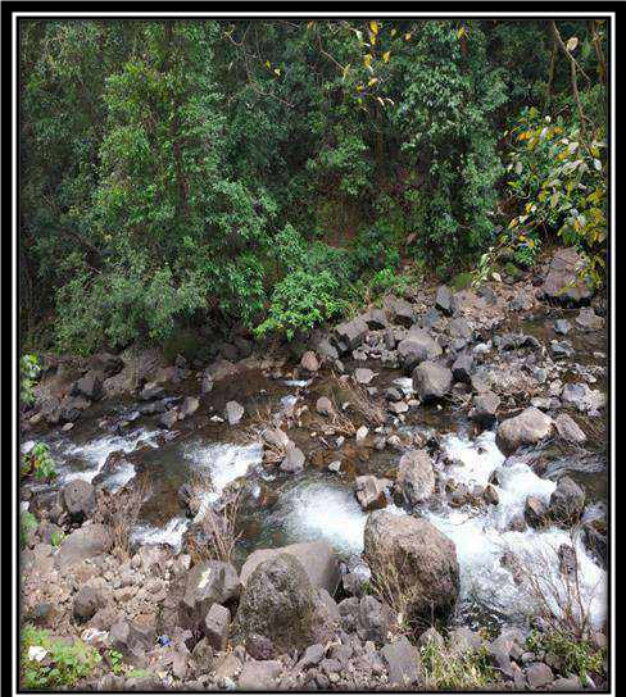
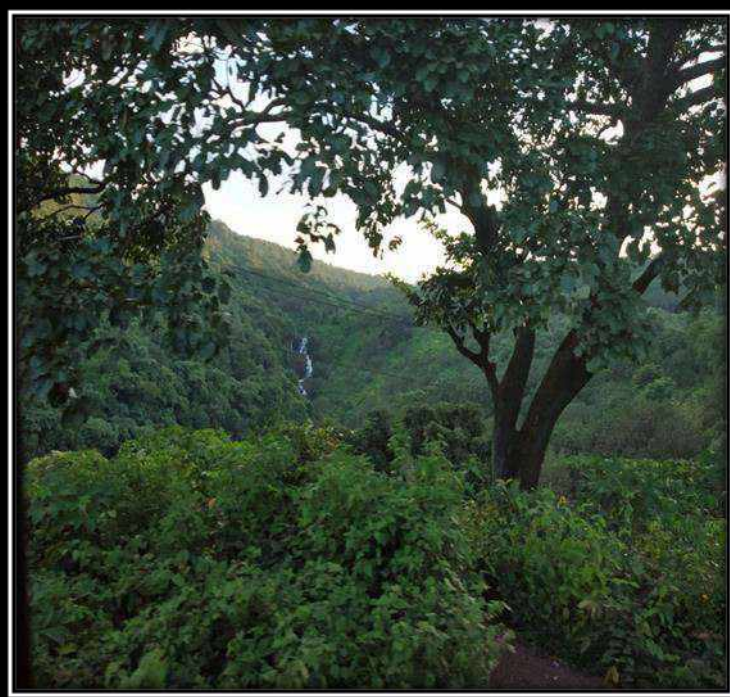
Since 5 decades such human activities have already harmed and damaged the forest ecosystem on a larger scale resulting in (a) reduction of many species (b) leading to extension of few species and (c) threatening a few other species. As a consequence, there will be imbalance in forest ecosystem, through food chain / food web. We have learnt that the food chain and food web are the inter-linked mechanisms which are really delicate in any ecosystem. Once this delicate balance is disturbed, it is very difficult to recover the same. Hence we are not supposed to disturb this balance. If undisturbed, the ecosystem continues to flourish.



Latitude: 16.718872
Longitude: 74.284612
Elevation: 560.63m
Accuracy: 3.2m
Time: 01-10-2019 11:03
Note: study trip to mahableshwar



Latitude: 17.146551
Longitude: 73.265117
Elevation: 4.67m
Accuracy: 3.2m
Time: 02-10-2019 07:15
Note: study trip ganapati pule



CONCLUSION

It was a wonderful experience to study “Forest ecosystem” in its own habitats, because in the class rooms, we can only imagine. By undertaking this study tour, we were able to observe and understand the system operating and mutualism and its food chain maintenance. It was the great combination of theoretical and practical knowledge with live examples inhabiting the natural forests. It is the classic example of *experiential learning* for us. Every time, our teachers were used to say in the classes that, natural science students will learn better in the forest. In nutshell, it helped us to understand and grasp the concepts clearly and extend our thinking capacity.

ACKNOWLEDGEMENTS

We the students of B.Sc fifth semester are indebted to our beloved Principal Sri U R Rajput for all his help and giving permission to undertake the study tour. With deep sense of gratitude, we express our sincere thanks to Dr N. R. Birasal, Head, Department of Zoology for his support to undertake this visit to study forest ecosystem

We sincerely thank our teachers Smt Sridevi I. Puranik, Smt Megha Kapurkar and Miss Trupti P Khidrapure for their continuous support to undertake this visit and guiding us.

We are also thankful to our department peon Sri Shivagouda patil and our friends who helped us in making this visit safe and interesting.