

2.3.1(QIM=30) Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process

1. List of student-centric methods used in the classroom

Sr.no.	List of methods used in classroom
1.	LCD
2.	Smart board
3.	Projector
4.	Laptop
5.	Seminar
6.	Workshop
7.	Presentation
8.	Group project
9.	Practicals

Document
Poster P
tour.

21 February 2023

To
The Principal
Tuljaram Chaturchand College
of Arts, Commerce & Science, Baramati.

Sub: Permission for an industrial visit at Nandan dairy, Baramati.

Respected Sir,

This is a request letter to seek your kind permission for an industrial visit to Baramati Taluka Sahakari Doodh Utpadak Sangh Maryadit, Nandan dairy, Baramati. As per our curriculum norms, students are expected to visit prominent industries and companies for an exposure to the latest trends. Consequently, the Second-year students of Microbiology Department of our college, desire to visit dairy on Friday 24/2/2023.

Total number of students = 63


Number of escorts = 3

Time:- 9.30 am to 3pm.


We would be immensely grateful to you if you could please allow us to visit. Please sanction our request. Expenditure would be borne under RUG.

Thank you.

forwarded


21/2/23
(Dr. S. T. Patil)

Allowed


Yours faithfully,

Prof. Dr. Y. R. Mulay

Department of Microbiology

21 February 2023

As per curriculum norms of S.Y.B.SC. Microbiology, Industrial visit is mandatory.

Department of Microbiology has organized industrial visit scheduled on -

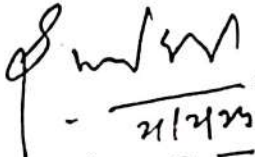
Friday 24/2/2023


Time - 9.30 am to 3 pm.


Kindly take a note of it.

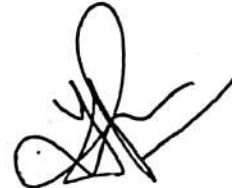
Thank you.

forwarded


- 21/2/23
(Dr. S. T. Pawar)


21.2.2023
S. P. Choudhary
Dept. of Zoology


21/02/2023
Dept. of Botany



Yours faithfully,

Prof. Dr. Y. R. Mulay

Department of Microbiology

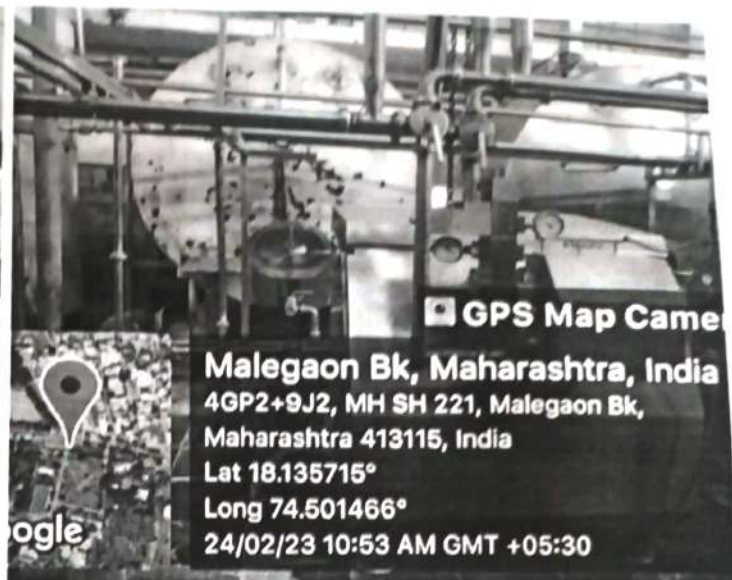
Sr.no	Roll no.	Name of Student
1	678	SHINDE RUTUJA ANIL
2	6782	KHADE SNEHAL DINKAR
3	6784	OSWAL KHUSHBU MANOJ
4	6789	BORATE POOJA NANDKUMAR
5	6790	GRDE SAKSHI SUDHAKAR
6	6791	THIGALE MRUNALI GANESH
7	6793	LONDHE KALYANI DAGADU
8	6795	SHAIKH SHIRIN SALIM
9	6800	CHAUDHARI ANKITA HANUMANT
10	6801	MANE YOGESHWAR VIJAYKUMAR
11	6803	KHARAT OMKAR VILAS
12	6805	REDE ANITA ANIL
13	6806	KAMBALE ANUSHKA PRAKASH
14	6809	BANKAR SHRUTI ANIL
15	6810	BANKAR PRERNA ANIL
16	6813	PARKALE VRUSHALI GAJANAN
17	6816	THOMBARE ADITYA BAPU
18	6820	BORATE KRANTI HARIDAS
19	6821	RODE PARIKSHIT SANTOSH
20	6825	TIWARI KAJAL NARENDRA
21	6828	JADHAV JYOTI MAHADEV
22	6837	RUPNAWAR OMKAR DILIP
23	6838	SURVE PRITI PITAMBAR
24	6839	BHOSALE SAKSHI JITENDRA
25	6841	GORE SAKSHI BAPU
26	6843	GODASE ASHVINI ANIL
27	6844	KHARTODE PRATIKSHA RAMESH
28	6845	KHARTODE KAJAL SAMBHAJI
29	6853	NIMBALKAR PRANALI GANESH
30	7011	GHOLAVE VAMAN NARAYAN
31	7013	SAWANT SONALI TANAJI
32	7015	KAMBLE PRATIKSHA TUKARAM
33	7016	RAUT RUTUJA SANJAY
34	7020	KHARATODE ABHIJEET POPAT
35	7021	KARE SAYALI JAGANNATH
36	7025	PAWAR POOJA NANASAHEB
37	7029	CHAVAN RUSHIKESH JAGADISH
38	7030	SALUNKE SUKANYA SUNIL
39	7031	ADHAV KAJAL HANUMANT
40	7032	SHELAR SANKET VIKRAM
41	7034	DALAVI AMAR SUNIL
42	7035	SORATE ANUJA AMBADAS
43	7038	HEGADE SUMIT VIJAY

44	7041	MORE TUSHAR GORAKH
45	7043	KHATAL AVDHUT HARIDAS
46	7044	SALUNKE SOHAM SANJAY
47	7046	RAUT SWAPNALI VIJAYKUMAR
48	7047	RAUT RUPALI POPAT
49	7048	BAGADE APEKSHA ARVIND
50	7049	KALE RHITUJA HEMANT
51	7050	KOPNAR NIKITA NAVANATH
52	7052	TILEKAR ARYA SACHIN
53	7054	JADHAV ADITYA ANANT
54	7055	DESHMANE DHANASHREE RAJESH
55	7063	SABALE PRADNYA RAJESH
56	7067	DHAINJE NEHA RAMESH
57	7068	DHAINJE NIKITA RAMESH
58	7070	DHALE TRUPTI SUNIL
59	7073	GADEKAR DNYANESHWARI BHAGAVAT
60	7077	JAGTAP SAURABH ROHIDAS
61	7082	GHADGE SURAJ ROHIDAS
62	7085	SOLANKAR VYANKATESH VINOD
63	7095	KOKIL GAYATRI ASHOK
64	7096	PALANGE ISHWARI CHARUDATT
65	7097	NALAWADE ANUJA APPASO
66	7101	SARAK DNYANESHWARI DATTATRAY



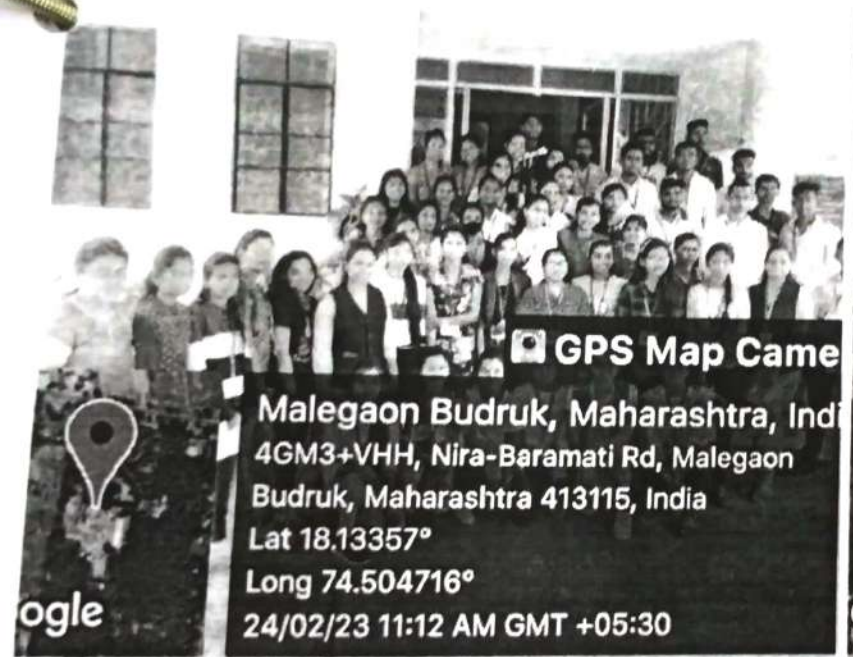
GPS Map Came

Malegaon Budruk, Maharashtra, India
4GM3+VHH, Nira-Baramati Rd, Malegaon
Budruk, Maharashtra 413115, India
Lat 18.133687°
Long 74.504626°
24/02/23 10:34 AM GMT +05:30



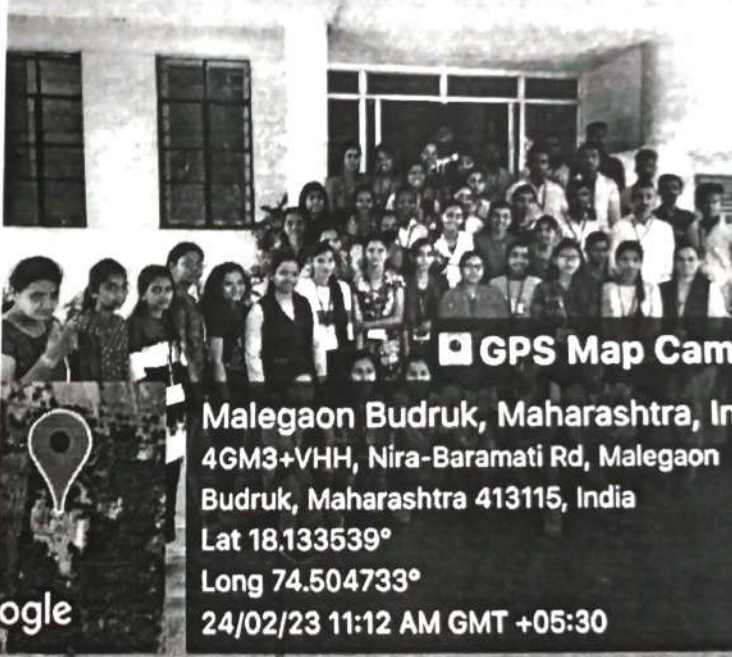
GPS Map Came

Malegaon Bk, Maharashtra, India
4GP2+9J2, MH SH 221, Malegaon Bk,
Maharashtra 413115, India
Lat 18.135715°
Long 74.501466°
24/02/23 10:53 AM GMT +05:30



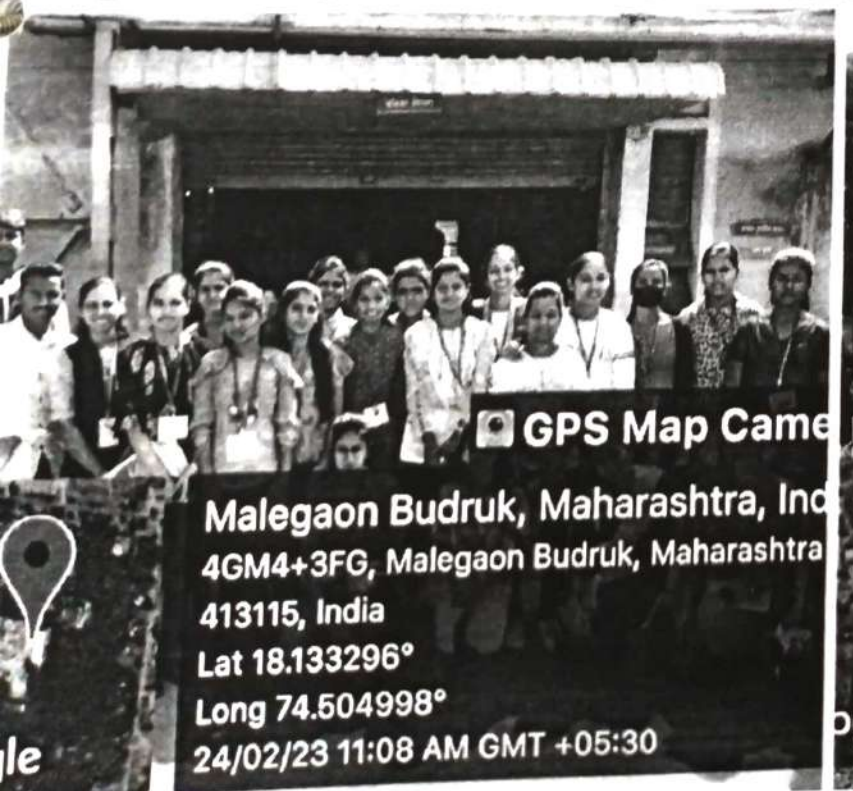
GPS Map Came

Malegaon Budruk, Maharashtra, India
4GM3+VHH, Nira-Baramati Rd, Malegaon
Budruk, Maharashtra 413115, India
Lat 18.13357°
Long 74.504716°
24/02/23 11:12 AM GMT +05:30



GPS Map Came

Malegaon Budruk, Maharashtra, India
4GM3+VHH, Nira-Baramati Rd, Malegaon
Budruk, Maharashtra 413115, India
Lat 18.133539°
Long 74.504733°
24/02/23 11:12 AM GMT +05:30



GPS Map Came

Malegaon Budruk, Maharashtra, India
4GM4+3FG, Malegaon Budruk, Maharashtra
413115, India
Lat 18.133296°
Long 74.504998°
24/02/23 11:08 AM GMT +05:30



GPS Map Came

Malegaon Budruk, Maharashtra,
4GP3+3XP, Baramati-Pune Rd, Malegaon
Budruk, Maharashtra 413115, India
Lat 18.135005°
Long 74.504825°
24/02/23 11:20 AM GMT +05:30

To,

The Principal

Tuljaram Chaturchand College, Baramati

Subject: Submission of details of study tour of TYBSc Microbiology

Respected Sir,

With reference to the above mentioned subject, I am submitting herewith the details of study tour of T.Y.B.Sc. microbiology students, which was organized from 20th to 22nd February 2023.

Attachments:

1. Daily and travel allowance bills (Dr. MH Gajbhiye, Ms. Poornima Kamble, Mr. Vishwambhar Dadas)
2. List of TYBSc students (with Bank Account number and IFSC code)
3. Report of study tour
4. Bill for travel & accomodation
5. Permission letter for TA & DA of staff
6. Permission letter for tour
7. Tour Schedule
8. List of students
9. A copy of the syllabus

In all there were 24 students from TYBSc microbiology along with 3 accompanying staff (total 27). Thus, a twenty six seater bus was hired for the said tour.

In this view, I request your permission to disburse the allowances to respective staff and students of TYBSc.

Thank you.

Yours Sincerely



Dr. MH Gajbhiye

Dr Milind H. Gajbhiye

Professor of Microbiology

Tuljaram Chaturchand College,
Baramati 413102, Dist-Pune, MS, India

तुळजाराम चतुरचंद महाविद्यालय, बारामती (पुणे)

(कला, विज्ञान व वाणिज्य)

स्वायत्त

प्रवास, दैनंदिन खर्चचे भत्ते बिल

नांव Prof. Milind Gajbhiye हुदा Professor कोड व 10,000
 प्रवासाचे कारण (कामाचे स्वरूप) For attending IBS - microbiology.

१) प्रवास खर्च

प्रवाण			आगमन			प्रवासाचे साधन	एस.टी. आकार	रेल्वे प्रथम/द्वितीय वर्ग, बर्थ/रिझर्वेशन शीट	एकूण खर्च
तारीख	स्थान	वेळ	तारीख	स्थान	वेळ	रेल्वे, टॅक्सी			
20.2.23	बारामती	5 am	20.2.23	Panaji	5 pm	Travel Bus			1398.70
21.2.23	Panaji Goa	12 pm	22.2.23	Baronmati	10 pm	TR			
								एकूण प्रवास खर्च	1398.70

दैनंदिन भत्ता -

मुक्कामाचे ठिकाणी आगमन		मुक्कामाचे ठिकाणापासून		मुक्कामाचे एकूण	दैनिक भत्त्याचा दर	एकूण खर्च
तारीख	वेळ	तारीख	वेळ	दिवस/तास		
Accommodation for 2 days						1200.20
20.2.23		22.2.23		02 days		

किरकोळ खर्च
तपशील

एकूण प्रवास खर्च 2648.70
 दैनंदिन भत्ता खर्च -----
 किरकोळ खर्च -----
 एकूण खर्च 2648.70
 वजा उचल -----
 एकूण देय रक्कम 2648.70

प्रमाणपत्र

मी मि. चतुरचंद सावंतवडी - पवर्ज मार्गे रेल्वेच्या Travel Bus वगनि/एस.टी. बसने प्रवास केला आहे.

१) मी रेल्वे प्रवासासाठी बर्थ/ बँक रिझर्व केली होती/नाही.

२) मी सवलतीच्या दराने रेल्वे प्रवास केला आहे/नाही.

३) कॉन्फरन्स व सेमिनारसाठी मोफत निवास व्यवस्था व भोजन व्यवस्था होती/नव्हती.

Milind Gajbhiye
 प्रवास करणाराची सही

बील/ अकॉन्टंट विभागाकरीता फक्त

रु. _____ अक्षरी रूपे

महाविद्यालयीन किंवा संस्थेच्या कामासाठी बाहेरगावी जाण्याबद्दल अर्ज

मा. प्राचार्य,
तुळजाराम चतुरचंद महाविद्यालय,
कला, विज्ञान व वाणिज्य,
बारामती, जि. पुणे

नांव : Miss. P. N. Kamble

बारामती, जि. पुणे

तारीख : 18/02/2023

विषय :- कामकाजासाठी परगावी जाणेबाबत.

महोदय,

Study tour of T.Y. B.Sc. Micro-
biology to Goa येथे जाणे आवश्यक

पुढील स्वरूपाच्या कामासाठी मला आहे. त्याचा तपशील पुढे दिला आहे. तरी या प्रवासासाठी व त्यानुसार देय असलेल्या भत्यासाठी आपण मंजूरी द्यावी, ही विनंती.

१) कामाचे स्वरूप To accompany students of T.Y. B.Sc. Microbiology on study tour at Goa.

२) जाण्याची तारीख :- 20/02/2023

३) परगावी किती दिवस अंदाजे रहावे लागेल. 03

प्रवास पूर्ण झाल्यावर प्रवास खर्च व दैनिक भत्ते याचे बील लेखा विभागाकडे देण्यात येईल.

कळावे,

आपला विश्वासू,

सही Kamble

श्री. Miss. P. N. Kamble - प्राचार्याची मंजूरी - Assistant Professor
यांना Study tour हद्द Goa या कामासाठी
या ठिकाणी जाण्यास अनुमती दिली आहे. नियमानुसार प्रवास खर्च, दैनिक भत्ते इ. सर्व भत्ते देय आहेत.

प्राचार्य

तुळजाराम चतुरचंद महाविद्यालय, बारामती.

गुळजाराम चतुरचंद महाविद्यालय, बारामती (पुणे)

(कला, विज्ञान व वाणिज्य)

स्वायत्त

प्रवास, दैनंदिन खर्चाचे भत्ते बिल

नांव हउर निरवशर गुळजाराम हुदा शिपाई ग्रेड चे 10000-1-
प्रवासाचे कारण (कामाचे स्वरूप) To accompany TY BSc Microbiology

१) प्रवास खर्च

प्रयाण			आगमन			प्रवासाचे साधन	एस.टी. आकार	रेल्वे प्रथम/द्वितीय वर्ग, बर्थ/रिझर्वेशन शीट	एकूण खर्च
तारीख	स्थान	वेळ	तारीख	स्थान	वेळ	रेल्वे, टॅक्सी			
20.2.23	बारामती	5am	20.2	पणजी	5pm	Trauet			1398.7
						Bus			
22.2.23	पणजी	जोवा	12pm	22.2	बारामती				
					10pm			एकूण प्रवास खर्च	1398.7

दैनंदिन भत्ता -

मुळामाचे ठिकाणी आगमन		मुळामाचे ठिकाणापासून		मुळामाचे एकूण	दैनिक भत्त्याचा दर	एकूण खर्च
तारीख	वेळ	तारीख	वेळ	दिवस/तास		
Accommodation for 2 days						1250.00
20.2.23		22.2.23		02 days		

किरकोळ खर्च
तपशील

एकूण प्रवास खर्च 2648.70
दैनंदिन भत्ता खर्च -----
किरकोळ खर्च -----
एकूण खर्च 2648.70
वजा उचल -----
एकूण देय रक्कम 2648.70

प्रमाणपत्र

मी हउर निरवशर गुळजाराम मार्गे रेल्वेच्या वगनि/एस.टी. बसने प्रवास केला आहे.

२) मी रेल्वे प्रवासासाठी बर्थ/ बैठक रिझर्व केली होती/नाही.

३) मी सवलतीच्या दराने रेल्वे प्रवास केला आहे/नाही.

४) कॉन्फरन्स व सेमिनारसाठी मोफत निवास व्यवस्था व भोजन व्यवस्था होती/नव्हती.

Dulga V. J.
प्रवास करणाराची सही

बील/ अकॉन्टंट विभागाकरीता फक्त

रु. _____ अक्षरी रूपये

अदा करण्यास मंजूरी देण्यात येत आहे.

Subject: MICROBIOLOGY
Place of Study Tour: Goa

Class: TYBSc

Date of Study Tour: 20TH FEB TO 22 FEB 2023

Number of Students Participated: 24

Number of Teachers Participated: 02

Number of Non-teaching Staff Participated: 01

Sr. No.	Bank holder's full name	Designation	Bank account number	Type of account	Bank name and address	IFSC Code	Mobile Number
1	Milind Hemraj Gajbhiye	Teacher	20100397832	Savings	Bank of Maharashtra, Baramati	MAHB0000073	9049661272
2	Poomima Navnath Kamble	Teacher	35666468804	Savings	Central Bank of India, Daund	CBIN0280665	7058476036
3	Vshwambhar Tukaram Dadas	Non-teaching Staff	1108006001686	Savings	Satara Jilha Madyawari Bank, Sangavi, Tal. Phaltan	IBKL0485SDC	8856021902
4	Martina Sarang Dixit	Student	60224834796	Savings	Bank of Maharashtra, Jalochi	MAHB0001409	7218679518
5	Mushir Salim Shikh [1]	Student	5645206015	Savings	Kotak Mahindra Bank, Phaltan	KKBK0002054	9665233509
6	Dipti Sanjay Sappkal	Student	68023486044	Savings	Bank of Maharashtra, Sansar	MAHB0000144	7057273437
7	Aarti Sunil Bhuse	Student	60126750501	Savings	Bank of Maharashtra, Lasurne	MAHB0000828	7083261570
8	Sakshi Kumar Chavan	Student	130710510001560	Savings	Bank of India, Asu	BKID0001307	8263080171
9	Jadhav Harshada Appaso	Student	60176285012	Savings	Bank of Maharashtra	MAHB0001085	7058594480
10	Rajguru Aishwarya Balaso	Student	417502010019443	Savings	Union Bank of India	UBIN0541753	8766084432
11	Chopade Rutuja Hanumant	Student	25026026810	Savings	Bank of Maharashtra	MAHB0000073	7776067517
12	NIKEETA SHIVAJIATOLE	Student	2975167900	Savings	Central Bank of India, Khadki via Bigwan	CBIN0282729	7020831540
13	Hegade Kiran Sharad	Student	60345480373	Savings	Bank of Maharashtra, Nimgoan, Kelki	MAHB0000476	9373764462
14	Haple Sonali Machindra	Student	50100409968246	Savings	HDFC BANK, Andheri East, Mumbai	HDFC0000086	9372439176
15	Dishank Dattatray Shinde	Student	62218210000178	Savings	Bank of India, Baramati	BKID0000619	8908640404

TOTAL

264

Anekant Education Society's
Tuljaram Chaturvedi College, Baramati
Department of Microbiology

Report on Educational Study Tour of T.Y.B.Sc.

An educational study tour of T.Y.B.Sc. class was arranged from 20/02/2023 to 22/02/2023 at Goa. There were 24 students along with 2 teaching and 1 non-teaching staff.

Journey Details:

Date of study tour:	20 th February to 22 th February 2023
Places visited for soil sample collection	In and around Panaji, Baga, Calangute, Candolim, Mardol The samples shall be used for the isolation of antimicrobial producing, plant growth promoting microbes etc.
Research Institute visited	<p>CSIR - National Institute of Oceanography (NIO), Dona Paula, Goa During visit at Goa, the students were taken to NIO Research Institute. The initial phase of the visit to NIO started with the introductory lecture which was shown by an exciting video clip depicting the origin, working history and various activities performed by the institute in exploring the marine world by Senior Technical Officer Dr. Devanand Kavlekar. NIO has 4000 publications with 40,000 citations.</p> <p>Various activities in NIO include:</p> <p>Study of Marine biodiversity: - The NIO has so far identified - 400 different species of phytoplankton. Phytoplankton these are microscopic, self-replicating organisms are primary producers of organic matter, forming the base of the marine food web.</p> <p>Study of Marine ecology: - NIO has carried out an investigation to unravel interactions between the environment and organisms.</p> <p>Study of Marine biotechnology: - NIO has searched for bioactive substances from marine organisms and which have various industrial applications such as stress-reducing / sedative anti-anxiolytics, microbial pigments useful in food coloring.</p> <p>Study of Marine Minerals: - NIO has carried out an extensive survey of metals such as copper, cobalt, nickel, and titanium that could be utilized in the future in view of increasing demand of these metals from shallow water and deep sea. NIO has discovered hydrothermal plumes indicative of new vent fields over the Carlsberg Ridge, signatures of plumes over the Central Indian Ridge.</p> <p>NIO is actively engaged in monitoring the health of Indian coastal environments through seasonal monitoring of water, sediment, biological and microbiological parameters. Establishing an overall index of pollution (OIP).</p> <p>The second part of the visit started with the museum at NIO, where old marine sails, instruments and ancient artifacts excavated from the deep ocean floors of the Goan coast were displayed to explain.</p> <p>Dr. Devanand Kavlekar explained the theme, mandate, targets, specialized instruments, and their specific focus on research and coral reefs.</p>

	<p>An artificial coral reef constructed by NIO in museum aquarium aided to gain knowledge on the natural coral reefs and helped students to know in detail about nature, symbiosis and life cycle of different coral system.</p> <p>These Institutional visits organized by department shall definitely benefit the students and encouraged them to use the opportunity for their future career.</p>
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Accompanying staff-

- 1) Prof. Milind Hemraj Gajbhiye
- 2) Asst. Prof. Ms. Poornima Kamble
- 3) Mr. Vishwambhar Dadas



Tour In-Charge
Dr Milind H. Gajbhiye
Professor of Microbiology
Tuljaram Chaturchand College,
Baramati 413102, Dist-Pune, MS, India

16	Bhosale Rupesh Prakash	Student	417502010019567	Savings	Union Bank of India, Kalewadi	UBIN0541753	7745805810
17	Anand Umesh More	Student	520481033887238	Savings	Union Bank of India, Baramati	UBIN0910996	9850123936
18	Gawade prajkta lalaso	Student	25024248010	Savings	Bank of Maharashtra	MAHB0000073	8624808211
19	Asha Shivaji Khetre	Student	68033215118	Savings	Bank of Maharashtra, Lasurne	MAHB0000828	7219377274
20	Pawar Suraj Suresh	Student	68033936693	Savings	Bank of Maharashtra, Baramati	MAHB0000073	7620525359
21	Phadatore Tanuja Shivaji	Student	3996574072	Savings	Central Bank of India, Girvi	CBIN0282788	9284366567
22	Prerana Dnyaneshwar Taware	Student	4054643870	Savings	Central Bank of India, Morgaon	CBIN0281507	9067349431
23	Shradha Shivaji Shitole	Student	39659971725	Savings	State Bank of India, Kurkumbh	SBIN0009331	8080922057
24	Vaishnavi Umakant Kanherkar	Student	60316541082	Savings	Bank of Maharashtra	MAHB0000463	8010218394
25	Ashwini Digambar Kale [2]	Student	3735477169	Savings	Central Bank of India, Temlhumri	CBIN0284831	9130741246
26	Chavan Radha Avinash	Student	417502010018130	Savings	Union Bank of India, Katwadi	UBIN0541753	9529119461
27	Trupti Rajaram Kharode	Student	60141485533	Savings	Bank of Maharashtra, Kalas, Tal. Indapur	MAHB0000997	8999552977


Dr. Milind Galbhiye
Tour Incharge

TYBSc Study Tour
Dr. Milind H. Galbhiye

Professor of Microbiology
Tuljaram Chaturchand College,
Baramati 413102, Dist-Pune, MS, India



CHANDRANEEL TRAVELS

Buvasaheb Nagar, Kolki, Phaltan, Dist. Satara.

Ph. : 220113, Mob. 9423499599

No. **213**

Date : **23/02/2023**

Company Name

The Principal,
Tuljaram Chaturchand College, Barramati.

Booked by

Dept. of Microbiology

Mobile No.

9049661272

Vehicle Type

Luxury Bus

Vehicle Number MH-11L5999

Details

Kms

Time

Date

Trip to Goa

Closing Km

36301

11 pm

22.02
2023

Including Kolhapur,
Sawantwadi, Panaji,

Starting Km

35222

5 am

20.02.
2023

Baga, Calangute,
Candolim, Mandol

Total

① 1079 km

Rs 25/- per km

= 37765/-

& back to Barramati.

Extra KM Hrs.

Accommodation ② Non-Ac Room

Charges

Rs. 1250/- per double room

Toll Parking

per day. Total charges = 33750/-
for 02 days

Note :

1. Kilometers and Time from our office to out office.
2. This is a humble request to passenger please check 'Opening Kms' and kindly note down 'Closing Kms & Time' before signing a service voucher.
3. I confirm the use of the car and agree to pay the hiring charges.

[Signature]

For Chandraneel Travels

Thank you ! Visit again !

Date: 13 February 2023

To,

The Principal

Tuljaram Chaturchand College, Baramati

Subject: Regarding TA, DA and duty leave to the accompanying staff on the excursion tour

Reference: Study tour of TYBSc

Respected Sir,

This is regarding the said subject, an excursion tour has been arranged for the students of class of TYBSc from 15th Feb to 17th Feb 2023 to visit Pharmaceutical industries (Indoco Remedies Ltd. and Cipla Ltd., Verna Industrial estate), National Institute of Oceanography, and the Department of Microbiology, Goa University.

- In all, there may be 23 students and four accompanying staff as mentioned below:

Teaching staff:

1. Dr. M. H. Gajbhiye

2. Ms. Kajal Gaikwad / *Ms. Poorninga Kamble*

Non-teaching staff:

1. Mr. S. Z. Bhosale

2. Mr. Deepak Zagade

3. *Mr. Vishwambar Dadas*

I request you therefore to sanction TA, DA and Duty leave to the above mentioned staff.

only one NT staff allowed

Forwarded through:

[Signature]
Head,
Dept. of Microbiology

Yours Faithfully,

[Signature]
Tour Incharge

Dr Milind H. Gajbhiye

Professor of Microbiology

Tuljaram Chaturchand College,
Baramati 413102, Dist-Pune, MS, India


Allowed
23/2

T. Y. B. Sc. Educational Tour 2023

Tentative Schedule of Study Tour

Day-1	15/02/23	05.00 am to 03.00 pm	Baramati to Panji, Goa
		3.00 pm to 5.00 pm	Visit to Indoco Ltd.
		Stay at Panji	
Day-2	16/02/23	09.00 am to 12.00 pm	Visit to Cipla Ltd.
		01.00 pm to 03.00 pm	Visit to NIO
		Stay at Panji	
Day-3	17/02/23	09.00 am to 12.00 pm	Visit to Goa University
		1.00 pm	Departure
		Towards Baramati via Kolhapur	
		Arrival around 12 mid night	

Mode of travel: By Luxury Bus


Dr Milind H. Gajbhiye
Professor of Microbiol.
Tuljaram Chaturchand College
Baramati 413102, Dist-Pune, MS, India

Date: 08/02/2023

To,
The Principal
Tuljaram Chaturchand College,
Baramati.

Subject: Permission for excursion tour

Respected Sir,

This is concerning the subject maintained above, we are planning for an excursion tour for the students of T.Y.B.Sc Microbiology. As per the syllabus of Tuljaram Chaturchand College (Autonomous) of TYBSc (2019 Pattern), it is mandatory to visit industry/Institute/Laboratory etc.

In this view, we are planning to visit Pharmaceutical industries (Indoco Remedies Ltd. and Cipla Ltd., Verna Industrial estate), National Institute of Oceanography, and the Department of Microbiology, Goa University. Students shall acquire knowledge concerning quality control techniques, sterilization processes, fermentation process, packaging of fermentation products and related Microbiological processes and equipments. We are in communication with the HR head of both the industries to confirm the appointment for the visit. Students may collect the soil and water samples from various sites for the project purpose.

The study tour may be arranged from 15th February, 2023 to 17th February 2023. The approximate student number will be 40 with accompanying teaching staff (04) and nonteaching staff (02).

I request you therefore to grant permission for the said excursion tour and grant approval for the travelling and lodging expenses towards this study tour.

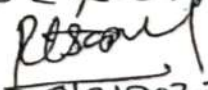
Thanking You.

Yours faithfully,

Forwarded through:


Head

Department of Microbiology

Recommended
under ROSH

8/2/2023



Tour Incharge

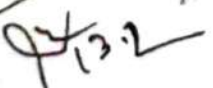
Dr Milind H. Gajbhiye

Professor of Microbiology

Tuljaram Chaturchand College,
Baramati 413102, Dist-Pune, MS, India.




Excursion Committee

Allowed

13.2

Tuljaram Chaturchand College, Baramati
 Department of Microbiology
 TYBSc MICROBIOLOGY STUDY TOUR February 2023
 LIST OF T.Y.B.S.c STUDENTS

SR.NO	ROLL NO	NAME OF STUDENT	SEX	AGE
1	7295			
2	7296	SHITOLE SHRADHA SHIVAJI	F	21
3	7297	MORE ANAND UMESH	M	20
4	7330	TAWARE PRERANA DNYANESHWAR	F	21
5	7338	SAPKAL DIPTI	F	21
6	7339	KANHERKAR VAISHNAVI UMAKANT	F	21
7	7351	CHAVAN RADHA AVINASH	F	21
8	7434	ATOLE NIKITA SHIVAJI	F	21
9	7446	PAWAR SURAJ SURESH	M	21
10	7453	KALE ASHWINI DIGAMBAR	F	22
11	7458	KHETRE ASHA SHIVAJI	F	21
12	7459	CHAVAN SAKSHI KUMAR	F	21
13	7461	CHOPADE RUTUJA HANUMANT	F	22
14	7463	GAWADE PRAJKTA LALASO	F	21
15	7465	JADHAV HARSHADA APPASO	F	21
16	7466	DIXIT MARTINA SARANG	F	21
17	7468	RAJGURU AISHWARYA BALASO	F	21
18	7487	BHUSE AARTI SUNIL	F	21
19	7515	PHADATARE TANUJA SHIVAJI	F	21
20	7533	BHOSALE RUPESH PRAKASH	M	20
21	7541	HEGADE KIRAN SHARAD	M	21
22	7549	SHINDE DISHANK	M	20
23	7615	HAPTE SONALI MACHINDRA	F	21
24	7443	SHAIKH MUSHIR SALIM	M	22
		KHARTODE TRUPTI	F	20


 Study Tour Incharge

Dr. Milind H. Gajbhiye
 Professor of Microbiology
 Tuljaram Chaturchand College,
 Baramati 413102, Dist-Pune, MS, India

The Principal

Tuljaram Chaturchand College, Baramati

Subject: Submission of Final Programme of Study tour of TYBSc.

Respected Sir,

I take this opportunity to thank you for granting permission for the study tour of TYBSc. I have attached herewith a final programme of this tour as shown below.

Tentative Schedule of Study Tour

Day-1 20/02/23 05.00 am to 03.00 pm Baramati to Panji, Goa

3.00 pm to 5.00 pm Visit to Indoco Ltd.

Stay at Panji

Day-2 21/02/23 09.00 am to 12.00 pm Visit to Cipla Ltd.

01.00 pm to 03.00 pm Visit to NIO

Stay at Panji

Day-3 22/02/23 09.00 am to 12.00 pm Visit to Goa University


1.00 pm Departure

Towards Baramati via Kolhapur

Arrival around 12 mid night


Mode of travel: By Luxury Bus

Forwarded through:


Head

Dept. of Microbiology

Yours Faithfully,


Tour Incharge
Dr Milind H. Gajbhiye
Professor of Microbiology
Tuljaram Chaturchand College,
Baramati 413102, Dist-Pune, MS, India

23 students
+1
2 faculty
1 + 1

Noted
13/2

Class: T.Y.BSc (semester-VI)

Paper code : MICRO3607

Title of Paper : Practical Course IV: Biochemistry and Molecular Biology

Credit : 2 (Each credit=6 Practicals)

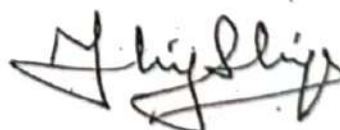
Learning Objective:

1. Aim to develop expertise in practical skills in enzymology
2. Aim to provide the knowledge and practical skills in Molecular biology

Learning Outcome:

1. Students will learn about different techniques in Molecular biology & Biochemistry

Credit No.	Topic	Number of Practicals
I & II	a. Enzyme Purification:	
	i. Precipitation of amylase from fermentation broth	1
	ii. Dialysis	1
	iii. Determination of specific activity of crude and purified amylase and establishment of Purification chart	2
	iv. Immobilization of Invertase	1
	b. Isolation and enumeration of bacteriophages and study of phage morphology	2
	c. Genomic (bacterial) DNA isolation and estimation.	2
	d. Transformation of <i>E. coli</i> and selection of recombinants	2
	e. Visit to Research laboratory/Industry	1



Dr Milind H. Gajbhiye

Professor of Microbiology

Tuljaram Chaturchand College,
Baramati 413102, Dist-Pune, MS, India.

CHANDRANEEL PARYATAN

Goa Trip Program Details

Date	Time	Destination
19-02-2023	9: pm	Departure to Goa
20-02-2023	7:50 am	Arrival at Goa
	8:00 am to 10:00 am	At hotel, room allotment, breakfast and fresh
	10:00 am to 10:30 am	Arrival at Mangueshi Temple
	10:30 am to 11:30 am	Mangueshi Temple
	11:30 am to 12:00 pm	Arrival at Basilica of Bom Jesus (Old Goa Church)
	12:00 pm to 2:00 pm	Basilica of Bom Jesus (Old Goa Church) and Museum
	2:00 pm	Arrival at Hotel for Lunch
	2:00 pm to 3:00 pm	Lunch
	3:30 pm to 4:00 pm	Arrival at Baga Beach
	4:00 pm to 6:00 pm	Baga Beach
	7 pm	Back to hotel. Dinner. Halt
21-02-2023	9:00 am	Breakfast and Tea
	9:00 am to 12:00 pm	Industrial Visit & Zona Paula.
	12:30 pm to 1:30 pm	Back to hotel for Lunch
	2:00 pm	From hotel to Aguada Fort
	2:30 pm to 3:00 pm	Aguada Fort
	3:30 pm	From Aguada Fort to Calangute Beach
	4:00 pm to 6:00 pm	Calangute Beach

	6:00 pm	Back to Hotel
	7:15 pm to 8:15 pm	Cruise (Dance boating)
	9:00 pm	Arrival at Hotel. Dinner. Halt.
22-02-2023	8:00 am	Tea Mapsa
	8:30 am	Departure to Kolhapur via Radhanagari
	1:00 pm	Kolhapur. Lunch.
	2:00 pm to 3:00 pm	Shahu Palace
	3:00 pm to 5:00 pm	Mahalakshmi temple, Rankala, Shopping
	6:00 pm	Departure from Kolhapur
	9:00 pm	Arrival at Baramati.