



**Maulana Azad College of Arts,
Science and Commerce,**

Dr. Rafiq Zakaria Campus Post Box No. 27
Dr. Rafiq Zakaria Marg Rauza Bagh
Aurangabad - 431001(MH)

DR. RAFIQ ZAKARIA CAMPUS

NAAC
Reaccreditation
3rd Cycle

**Metric
2.3.1**

Criterion II Teaching Learning & Evaluation

**2.3.1 Student Centric
Method**

Experiential Learning

2018-19



Maulana Azad College of Arts, Science & Commerce,

Dr. Rafiq Zakaria Campus-I, Post Box No.27, Dr. Rafiq Zakaria Marg, Rauza Bagh,

Aurangabad – 431001 Maharashtra

.. 0240-2381102, 2381668 | Web: <https://maca.ac.in> | Fax: 0240-2390422 | Email: macprincipal@gmail.com

* Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

* Recognized Minority Institute

* UGC – 2(f) & 12 (B) Status

* NAAC Re-accredited (Grade A) in two consecutive cycles. * Unnat Bharat Abhiyan

* Grade A in Academic and Administrative Audit (Dr. BAMU) * District Green Champion Award (MGNCRE)

* UGC's Status "COLLEGE WITH POTENTIAL FOR EXCELLENCE"

DECLARATION

This is to declare that the information, reports, true copies of the supporting documents, numerical data etc. submitted/presented in this file is verified by Internal Quality Assurance Cell (IQAC) and is correct as per the records. This declaration is for the purpose of NAAC accreditation of HEI for 3rd Cycle period 2017-18 to 2021-22. All reports are class III digitally signed.


(Dr. Mazhar Ahmed Farooqui)

Principal

Principal

Maulana Azad College of Arts,
Science & Commerce,
Rauza Baugh, Aurangabad.



Maulana Azad College of Arts, Science and Commerce, Aurangabad
Dr. Rafiq Zakaria Campus
Field/ Industrial Visits/Project

Dr. Rafiq Zakaria Campus
Maulana Azad College of Arts, Science and Commerce, Aurangabad

Report of activity for submission to IQAC

Dept of Zoology

Name of the Event/ Activity :- Excursion Tour

Date:- 15-9-2018

Time:- 8.00am

Place: Gautala Wild Life Sanctuary, Kannad

Number of beneficiaries:- 32

Type of activity:- Curricular

Details of the Programme:-

1. Dept. of Zoology was conducted excursion tour on 13-9-2017 at 8.00 a.m
2. It is well known place for biodiversity of wild animals.
3. B.Sc. students observed various types of animals like Wild dog, Monkeys, different types of birds etc.
4. All students and staff members returned to Aurangabad by evening at 8.00 pm.

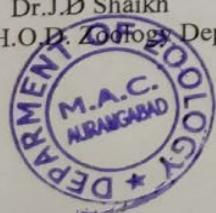
Goals and objectives:-

1. Preservation and restoration of natural habitats of organism through controlled exploitation.
2. Maintenance of rare species in protected areas such as national park and sanctuaries etc.
3. Educating the public about the need to protect and preserve the environment as a long range goal for the welfare of future generations.

Relevance and out comes:-

1. Organize field trip with experts and encourage volunteers.
2. Introduces courses on wild life conservation.
3. Conduct Community awareness programme on Wild life protection.
4. Slogan writing and pledge taking for Save "wild life"
5. Students observed the birds and other animals by using binocular.

Dr. J.D Shaikh
H.O.D. Zoology Dept.



Aditi Bhattacharya
Dr. Aditi Bhattacharya
IQAC Coordinator

COORDINATOR
Internal Quality Assurance Cell
Maulana Azad College of Arts,
Science & Commerce, Aurangabad.

Mazahar Ahmad Farooqui
Dr. Mazahar Ahmad Farooqui
Principal
Maulana Azad College of Arts
Science & Commerce, Aurangabad

Visit to Wild Life Sanctuary, Gautala (15-9-2018)



Dr. Rafiq Zakaria Campus
 Maulana Azad College of Arts, Science and Commerce
Department of Zoology

Excursion Attendance 15th September 2018

Sr. No.	Name of the Student	Roll No.	Signature.
1	Avhad Sneha Santosh	524	Dhred
2	Kharat Pratiksha	506	Kharat
3	Kharat Amruta	521	Amruta
4	Shaikh Anam Fatema	531	Anam
5	Khan Ayesha ajaz	541	Ayesha
6	Shaikh Adiya e masurah	532	Adiya
7	Shaikh Fum Afireen	522	Afireen
8	Mirza Simran	520	Simran
9	Khan Noor - u - Saba	552	Noor
10	Siddiqui Umaira	554	Umaira
11	Khan Maniza	558	Maniza
12	Amnaqhan Shigraf	553	Amnaqhan
13	Shaikh Sajmeen Fatima	516	Sajmeen
14	Shaikh Khudaija	222	Khudaija
15	Khan Zeheba Fatima	211	Zeheba
16	SYED UBAID	542	Ubaid
17	Shaikh Madi Saitib Madi Muzaffar	534	Madi
18	Ahmedesham Khan. Iftelkhan	502	Ahmedesham
19	Shaikh Mansab	308	Mansab
20	SAYYED SHOEB	543	Shoeb

Faculty Accompanying:

1. Dr. Sadat M. Quazi

2. Dr. Tarannum Shaikh

3. Dr. Yahya Khan



Dr. Rafiq Zakaria Campus
 Maulana Azad College of Arts, Science and Commerce
Department of Botany

Excursion Attendance 15th September 2018

Sr. No.	Name of the Student	Roll No.	Signature.
21	SHAH RAMIT HABIB	555	Ramit
22	Shaba Irfan Yunus	544	(IY) Shabir
23	Shaikh Abdul Ahad	304	Abdul
24	Sheeb Ahmed	509	Sheeb
25	SHAIKH ABDUL MOID	309	(AM) Moid
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Faculty Accompanying:

1. Dr. Sadat M. Quazi
2. Dr. Tarannum Shaikh
3. Dr. Yahya Khan





Dr. Rafiq Zakaria Campus

Maulana Azad College of Arts, Science & Commerce

Post-Box No. 27, Dr. Rafiq Zakaria Marg, Rauza Bagh, Aurangabad-431 001 Maharashtra.

Tel.: 0240-2381102 | Web: <http://maca.ac.in> | Fax: 0240-2390422 | Email: macprincipal@gmail.com

MINORITY INSTITUTE

NAAC Re Accredited Grade 'A'

UGC's Status of "COLLEGE WITH POTENTIAL FOR EXCELLENCE"
NATIONAL INSTITUTIONAL RANKING FRAMEWORK - 151-200

Ref. No. MAC: 12/2018-19/17/91

Date: 11th September, 2018

To,
The Conservator of Forest (Wild Life),
Aurangabad.

Sub:- Request for permission and exemption of Entry Fee to
"Gautala Forest".

Sir,

With reference to above mentioned subject I have to submit that the students of B.Sc. II Year (Botany) Maulana Azad College of Arts, Science & Commerce, Rauza Bagh, Aurangabad are visiting to "Gautala Sanctuary" on 15-09-2018 for "Educational Tour" and to conduct the "Ecological Experiment" at Gautala Forest. Therefore, I request you to allow them and exempt the entry fee to (40) Students and accompanying Teachers I hope you will do the needful and oblige.

Thanking you,

Yours faithfully,

Dr. Mohd. Razaullah Khan
(Dr. Mohd. Razaullah Khan)
In-Charge Principal

11-9-2018
Despatch Clerk m/sell
Divisional Forest Officer
(Wildlife) Division, Aurangabad.

Dr. Rafiq Zakaria Campus
Maulana Azad College of Arts, Science and Commerce
Rauza Bagh, Aurangabad

Department of Zoology

Excursion 2018-19
15th Sept 2018



Tentative Programme

Starting Place	:	Dr. Rafiq Zakaria Campus, (Parking Site)
Reporting Time	:	7:00 am
Departure Time	:	7:30 am
Reaching to Destination	:	10:00 am
Visit to forest	:	10:00 am- 01.00 pm
Lunch	:	1.00 – 2.30 pm
Visit to Fields	:	2.30 – 4.00 pm
Departure to Aurangabad	:	4:00 pm
Arrival to Dr. Rafiq Zakaria Campus.	:	6.00 pm

Note: Students should come in college uniform, Musical Instruments, Cell Phones with camera are not allowed during excursion. Students are advised to carry their lunch and water along with them.

Teaching Staff Accompanying

1. Dr. Sadat M. Quazi *Sadat*
2. Dr. Tarannum Shaikh *TS*
3. Dr. Yahya Khan *YK*

Non-Teaching Staff Accompanying

Mr. Syed Anwar
Mr. Niyamatullah Khan
Mrs. Bharti Ghule *BT. Ghule*



Date:-14-09-2018

To,
The Principal,
Maulana Azad College,
of Arts, Scis & Com.
Aurangabad.

~~Permit~~
8/9/18
Bot + Zool
Dr. J. D. Sharikh
14/9/18

Subject:- Permission for the
excursion tour.

Respected sir,

With reference to above cited
subject as per B.Sc 5.Y (III Semester) a excursion
tour is compulsory. Therefor we would like
to visit Gantala Wildlife Sanctuary on 15/9/18.
Kindly grant us permission
for the same.

Thanking you,

Yours faithfully,
Dr. J. D. Sharikh.



Glimpses of Salim Ali Lake



Bird Watching Activity



Department of Microbiology

17-07-2018

The I/C Principal ,
Dr.Rafiq Zakaria Campus.
Maulana Azad College of Arts, Science and Commerce,
Aurangabad.

Permitting
Dr. Rafiq Zakaria

Sub : Letter seeking permission for study tour to Eurolifehealthcare Pvt Lts , Waluj
Request letter to be sent to the plant HR.

Respected Sir,

This is to request you to kindly permit us to visit the above mentioned pharmaceutical plant at Waluj on the 28th of July 2018. I also request you to issue us a request letter addressed to the Plant head /Plant HR .

I, Dr.Madhuri Sahasrabudhe and Mr.Zeeshan Habib will be accompanying the students and the visit timing will be from 10 to 4p.m .The bus will be picking up and dropping the students at the college gate and students have been asked to take the permission of their parents before coming for the tour.

Thanking you ,

Thanking you,





Dr. Rafiq Zakaria Campus
Maulana Azad College of Arts, Science & Commerce
Post Box No. 27, Dr. Rafiq Zakaria Marg, Rauza Bagh, Aurangabad-431 001 Maharashtra.

Tel.: 0240-2381102 | Web: <http://maca.ac.in> | Fax: 0240-2390422 | Email: macprincipal@gmail.com

MINORITY INSTITUTE

NAAC Re Accredited Grade 'A'

UGC's Status of "COLLEGE WITH POTENTIAL FOR EXCELLENCE"
NATIONAL INSTITUTIONAL RANKING FRAMEWORK - 151-200

Ref. No. MAC: 12/12a/18-19/517

Date: 17-07-2018

To,

Mr. Jude Pascal,
Plant HR, Eurolifehealth care Pvt Ltd.
B 15/2 Waluj MIDC,
Waluj, Aurangabad.

**Sub: Request for educational visit to the Pharmaceutical plant
(B.Sc. II, III yr students).**

Dear Sir,

This is to state that the students of the Dept. of Microbiology, Maulana Azad College of Arts, Science and Commerce are interested in visiting the plant as part of study tour in their syllabi. Around 30 students accompanied by teachers will attend the educational tour. It will be a great learning experience for them to have a look at the standard procedures performed and facilities available at your disposition.

I thus request you to kindly permit the visit and give our students a much needed insight into the working of the pharmaceutical industry.

Thanking you,

Yours faithfully


(Dr. Mohid Razaullah Khan)
In-Charge Principal



Dr. Rafiq Zakaria Campus

Maulana Azad College of Arts, Science and Commerce, Aurangabad.

This is to inform the students of B.Sc III year and a few of the students of B.Sc II year that Industrial visit will be taken on 25th August 2018. The address of the pharmaceutical company is as follows:

Eurolife Health care Private Ltd.

B-15/2, MIDC Area Waluj-431136, Aurangabad.

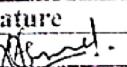
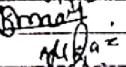
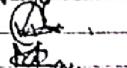
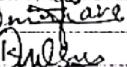
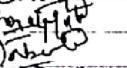
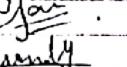
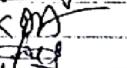
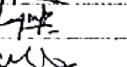
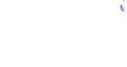
Phone number- 240 2553761.

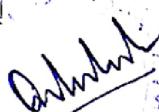
All the concerned students have to inform their parents that the tour will be from 10.20 to 4.30p.m after which we will return to College. Reaching time should be by 5.30 p.m .Lunch will be provided by the company. You are required to go through the QA and QC procedures, assay , GMP etc to understand the procedures being explained to you. Maintain silence and good conduct all through your stay at their premises. The college and accompanying staff members will not be held responsible for any untoward incident on the road or in the premises, inspite of adequate precautions being taken.

Names of accompanying teachers and staff:

Dr. Aditi Bhattacharya; Dr. Madhuri Sahasrabudhe; Mr. Zeeshan Habib.

List of B.Sc II year students

Srno	Name of the student	Class	Signature
1.	Baig Naemern	B.Sc III	
2.	Dabholkar Kamal	B.Sc III	
3.	Yasra Naaz	B.Sc III	
4.	Anam Tareen	B.Sc III	
5.	Maryam Sabahat	B.Sc III	
6.	Quazi Ammara	B.Sc III	
7.	Shazib Kulsum	B.Sc III	
8.	Sk. Malika Mehwish	B.Sc III	
9.	Nabeela Tahseen	B.Sc III	
10.	Fareequl Azeem	B.Sc III	
11.	Roja Singh	B.Sc III	
12.	Nuzhat Shabbir	B.Sc III	
13.	Asif Uddin Mendu	B.Sc III yr	
14.	SK Ghamal Haque	B.Sc IIrd	
15.	Murge Shrivatsa	B.Sc III yr	
16.	Fareequl Mohammad Yaqub	B.Sc III ² yr	
17.	Anbri Sayed	B.Sc III ² yr	



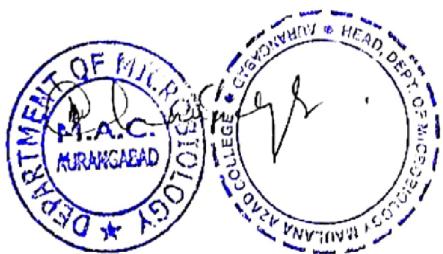
18.	Bushra Shafeen.	BSC I st yr.	Bushra Shafeen.
19.	Mehwish Irfan.	BSC III rd yr.	Mehwish Irfan.
20.	Nehmi Syeda Thunaira	BSC III rd yr.	Nehmi Syeda Thunaira

List of B.Sc II year students

Srno	Name of the student	Class	Signature
1.	Ghade Shraddha	B.Sc II nd yr.	Shraddha
2.	Peharkar Ashwini	B.Sc II nd yr.	Ashwini
3.	Samjeen Anwak Khan	B.Sc II nd yr.	Samjeen
4.	Pooja Anil Dhakne	B.Sc II nd year	Dhakne
5.	Priyanka Sandeep Dapke	B.Sc II nd year	Dapke
6.	Shaikh Sayna Ratik	B.Sc II nd yr.	Ratik
7.	Shaikh Heena Kauser	B.Sc II nd yr.	Heena
8.	Shaikh Mijiba	B.Sc II nd yr.	Mijiba
9.	Banka S. Binnaz	B.Sc II nd yr.	Binnaz
10.	Shaikh Ramsha	B.Sc II nd yr.	Ramsha
11.	Raiq Buleela Parveen	B.Sc II nd yr.	Parveen
12.	Khan Uzma Anjum	B.Sc II nd yr.	Anjum
13.	Khan Zahra Fatima	B.Sc II nd yr.	Zahra
14.	Shalikh Khudaija	B.Sc II nd yr.	Khudaija

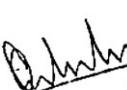
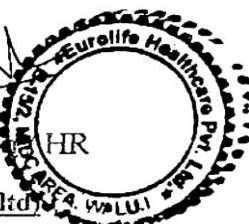
1. VAIDEH SHRI PAD PISU.
2. QURRAT-UL-AIN SHAIKH

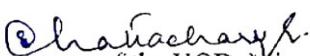
Shalikh
Khudaija



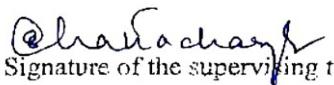
DR. RAFIQ ZAKARIA CAMPUS
MAULANA AZAD COLLEGE OF ARTS, SCIENCE AND COMMERCE
AURANGABAD.
DEPARTMENT OF MICROBIOLOGY
CERTIFICATE

This is to certify that Faeequl Afreen, a student
of B.Sc IIIrd year Microbiology of Maulana Azad College of Arts, Science and Commerce,
Aurangabad, has attended the Industrial visit at Eurolife Health care Private Ltd, B-15/2,
MIDC Area Waluj-431136, Aurangabad on the 25th August 2018.


Signature of resource person HR
(Eurolife Health care Private Ltd)

Eurolife Health care Private Ltd
MIDC, WALUJ - 431136


Signature of the HOD, Microbiology

Maulana Azad College, A'bad


Signature of the supervising teacher

Maulana Azad College, A'bad

Dr. Rafiq Zakaria Campus

Maulana Azad College of Arts, Science and Commerce , Aurangabad.

Study tour to "Eurolife Health care Private Ltd, Waluj " 25th August 2018.

Title of the presentation : Visit to Eurolife Healthcare Pvt-Ltd.

Address of the place of visit:

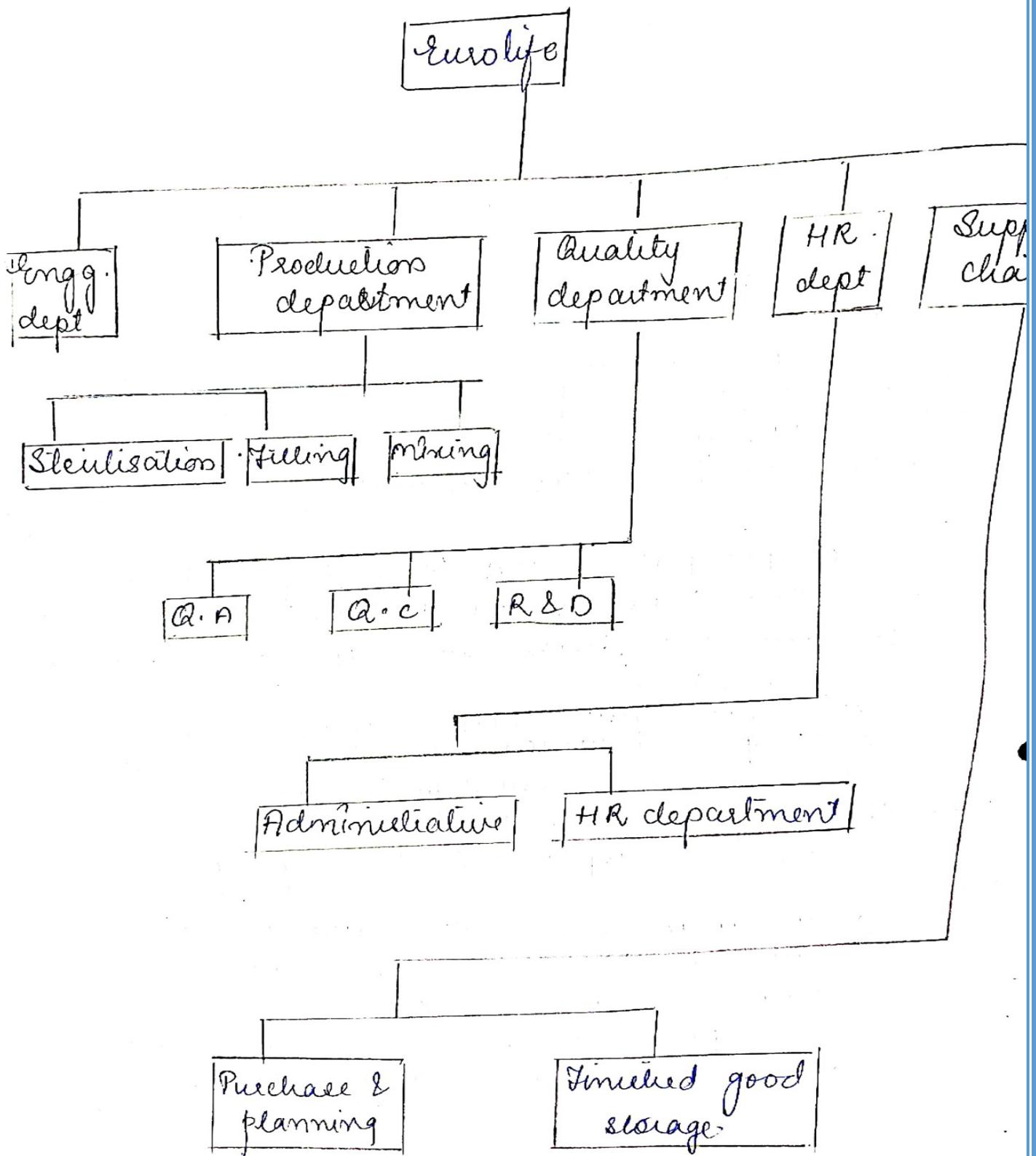
"Eurolife Health care Private Ltd. B-15/2, MIDC Area Waluj-431136, Aurangabad,

Name of the resource person : Vandana Mam.

Info:- Eurolife healthcare Pvt-Ltd is the fastest growing company established its unit here is Aurangabad. This unit produces IV fluids as its main product Sandeep Joshi is CEO of Eurolife monitor - the units of pharma industry.

Introduction :

- The company is known to supply the products to distributor, various institutions & also transfers the stock to different branches of Eurolife.
- There are five care department in company which are further classified in sub-department.
- The department mentioned below are, department of company
- There were some other areas where normal work was being done like Rattie cutting area, etc.
- The premises also have a separate section for treatment of effluent.





Details of deliberations /demonstrations:

Room /Lab:

1) Sterility tests are done by:- 1) Direct inoculation
2) Membrane filtration.

2) Two types of media used are fluid thioglycolate
for anaerobes & soyabean - casein digest media.
for aerobes, yeasts & molds.

3) Vitek 2 compact is an equipment used for identification
of any contaminants using cards. Gram positive
Gram negative & Bacillus except molds.

4) DEPARTMENT NO 1 - SUPPLY CHAIN DEPARTMENT
- The packaged goods are stored here.
5) - Supply is done according to orders given by
different hospitals.
6) - The department is well maintained for
cleanliness; humidity level is also maintained
to avoid any kind of fungal growth on the
card board boxes in which material is packed.

8) DEPT NO 2 & RMS (Raw material Store).
- A specific protocol is followed in RMS for raw
material which is received.

10)

Raw material



MRN generation [gives Identity to material]



Cleaning [Helps to minimize contamination]



due to dust particles]

Temp. is maintained in case of particular
materials



Storage. [There were racks where specific
material was stored]

3] Supply chain department :- The packages are stored here in this department. ^{Dev} _{Re} is done according to orders.

- The dept is well maintained for cleaning, humidity level is also maintained to avoid kind of fungal growths.
- Department also have systematic arrangement of stock according to the day of manufacture.

4] Department :- Quality Control

To avoid any kind of contamination every possible care is taken in pharmaceutical industry.

- Surface monitoring using :-
 1. Swab technique
 2. Rodac technique
- Viable monitoring is done by settle plate technique which requires a lot of sampling technique time. It might give qualitative results but there is a chance of false positive results.
- Other techniques of air sampling is done which gives quantitative results by allowing sampling of 1000 ml of air.
- Main tests involved are bacterial endotoxin test for Gram negative bacteria is done.
- Gel clot test is favoured since it is 1000 times more sensitive than pyrogen test.

Details of deliberations /demonstrations:

Room /Lab :

5] Department :- Effluent Treatment

- 1) - Two main kind of effluent treatment is done which are namely ATP & STP.
- 2) - The effluent produced is first checked for Cl^- ions & other ions also for COD.
- 3) - Effluent which have COD of 1000 ppm it is reduced to 400 ppm according to the norms provided by government.
- 4) - Microbial consortium is used for the treatment of effluent that includes Lactobacillus, etc. Initially these cultures are used for next effluent to be treated.
- 5) - The effluent after treatment is used for gardening purpose or sometimes drained out.

- 6) 6] Engineering department :- The machinery required for processing of raw materials are used for production as well.

Department provides :-
1) Compressed air
2) Water supply 3) Dry air.

- Air compressor provides air to the whole plant.
- Chiller :- Chiller brings down the temp of water to $8/10^\circ\text{C}$ which is used by various dep't.
- Power generator - It generates large amount of power which is provided to plant.
- The water is stored in two types of tank; Raw water tank & processed water tank.

Outcome of the study tour:

- 1) Production Department: After the sterilization, labelling of bottles according to the batch number is done. After labelling every bottle is checked for proper packaging & labelling individually by visual analysis. This ensures that only perfectly packed & good bottles will proceed otherwise faulty bottles will be discarded.
- 2) The bottles are then packed in boxes. This ends the production & packaging process.

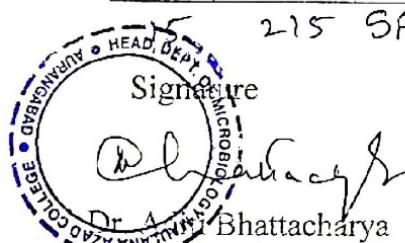
Signature of the student: df.

Year: BSC ^{3rd} year (2018-19)

Name of the College: Maulana Azad College, A'bad.

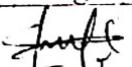
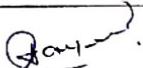
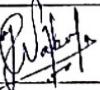
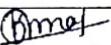
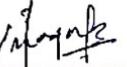
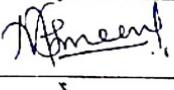
Dr. Rafiq Zakaria Campus
Maulana Azad College of Arts, Science and Commerce
Aurangabad
B.Sc.II year 2018-19

Sr.no	Roll no.	Students Name	Sign
1	202	Dapke Priyanka Sahebrao	Priyanka
2	203	Ghate Shraddha Laxman	Shraddha
3	207	Shaikh Sayma Rafik	Sayma
4	208	Shaikh Ramsha Mohd Hanif	Ramsha
5	211	Khan Zehra Fatima Abdul Sami	Zehra
6	212	Shaikh Mizbah Mohd Gayas Shaikh	Mizbah
7	213	Ashvini Vilas Peherker	Ashvini
8	214	Dhakne Pooja Anil	Pooja
9	216	Baig Bushra Parveen Mirza Rafat Baig	Bushra
10	218	Khan Uzma Anjum Samad Khan	Uzma
11	219	Shaikh Heena Kauser Ateeque Ahmed	Heena
12	222	Shaikh Khudaija Shaikh Iqbal Ahmed	Khudaija
13	223	Sk. Inamul Haque Sk. Ainul Haque	SK. Inamul Haque
14	225	Bin Mazi Barka Saud	Barka
15		215 SAMREEN ANWAR KHAN	Samreen



(HOD Microbiology)

Dr. Rafiq Zakaria Campus
Maulana Azad College of Arts, Science and Commerce
Aurangabad
B.Sc.III year 2018-19
Date: 25/8/18

Sr.no	Roll no.	Students Name	Sign
1		Murge Shivprasad Pushparaj	
2	202	Syeda Anam Tazeen Syed Minhajul Haque Khateeb	
3	203	Ansari Sayeed Anwar Abdul Rasheed Ansari	
4	204	Nabeela Tahseen Mohd Ateequr Rehman	
5	205	Syeda ummaima Taha Md Jaffar Ali	
6	206	Dabhade Komal Sanjay	
7	207	Maryam Sabahat	
8	208	Singh Pooja Rajesh	
9	209	Nusrat Fatema Shaikh Lateef	
10	210	Farooqui Mohammed Yaqub Aquiee' Ahmed	
11	212	Shaikh Kulsum Shaikh Rais	
12	213	Quazi Ammara Firdous Mohd Kauseruddin	
13	214	Baig Nasmeen Sarvar Baig	
15	217	Hashmi Syeda Humaira Syeda Muzzammil Ahmed	

15	217	Hashmi Syeda Humaima Syeda Muzzammil Ahmed	
15	218	Yusra Naaz Shaikh Zuber	
16	219	Bushra Shafin Gulam Rasool	
17	222	Farooqui Aftreen rafiq Ahmed	✓
18	223	Arifuddin Mondal Abdur Rob Mondal	Arifuddin
19	216	Mehruish Gram	Mehruish

Signature,

Dr. Aditi Bhattacharya

(HOD Microbiology Dept)

20. VAIDEH SHRI PAD PISU

Aditi

21. SHAIKH SURRAT-UL-AIN

Surrat

Green initiative

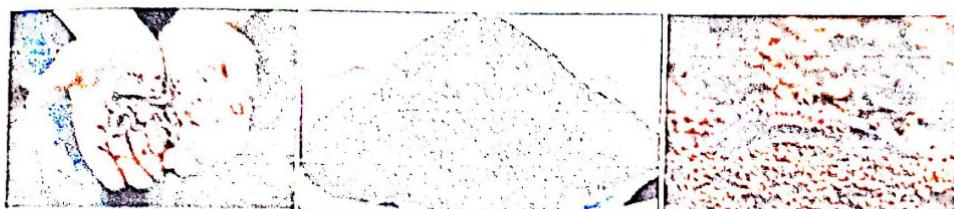
**Dept. of Microbiology , Maulana Azad College of Arts,
Science and Commerce, Aurangabad.**

In association with Microbiologist society, India

27-12-2018

**Vermicomposting for kitchen gardens - a small scale
business venture.**

Dept. of Microbiology
Experiential learning / Entrepreneurship development .
VERMICOMPOST:



Vermicompost is the product obtained after digesting vegetable or fruit waste using earthworms.

The earthworms being hungry eaters, consume the biodegradable matter and give out a part of the matter as excreta or vermi-castings.

Vermicast, also called worm castings, worm humus or worm manure, is the end product of the breakdown of organic matter by an earthworm.

These castings have been shown to contain reduced levels of biological as well as chemical contaminants and a higher proportion of readily utilizable nutrients than the raw material added for composting. Nitrogen, Phosphorous, Potassium, Calcium, Sodium, Magnesium, Iron, Zinc, Manganese, Copper, Boron, and Aluminum are found in composts.

Composition of vermicompost :

The production is economical and uses waste products as raw materials.

The compost has adequate water soluble nutrients and growth promoting hormones for plant growth.

It is an excellent, nutrient-rich organic additive / fertilizer as well as a soil conditioner.

It improves the soil structure and also the nutrient holding capacities of soil.

Fruits, flowers and vegetables and other plant products grown using vermi-compost are reported to have better keeping quality.

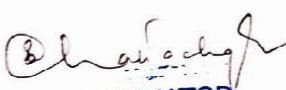
Production of Vermi compost :

- Cattle dung is collected from cattle shelters and kept for about 7-10 days to let it cool.
- To beds/rows or even worm bins , dung and crop residues/leaves, etc crop waste such as leaves, straw, vegetable or fruit peel /waste is layered alternatively with the dung to make a height of about 75 cm or as per space available and left to cool. Egg shells , cooked food, tea and coffee residues may also be added.
- Do not include, meat , fish in the compost bed.
- Water is sprinkled to let the compostable matter cool down and also turned upside down to distribute the moisture.
- Earthworms are put on the top of the manure row/bed. About 1 kg worms in a metre-long manure row are inoculated and left undisturbed for 2-3 days after covering with some broad leaves for eg. banana leaves. The bed is opened after 2-3 days.

- The upper portion of about 10 cm of manure is loosened with the help of a suitable hand tool. The bed is covered again. The worms feed on an upper bed of about 10 cm. This portion becomes vermicasted in about 7-10 days.
- This portion (vermicasted manure) is removed and collected near the bed. Another upper portion of 10 cm is loosened and covered again with the leaves. Moisture is maintained in the bed by regular sprinkling of water.
- The loosened portion of the manure is vermicasted in another 7-10 days and is removed again.
- Thus, in about 40 days, about 60 cm of the bed is converted into vermicompost and is collected on 3-4 occasions.
- The remaining bed of about 10 cm in height contains earthworm mixed manure.
- Fresh manure mixture/organic residues, etc. are again put on the residual bed containing earthworms of about 10 cm and the composting process is restarted.
- The manure collected from the bed is freed of worms through sieving. Uncomposted or foreign matter is also removed in this way.
- The screened manure is bagged and used or sold as required.


 COORDINATOR
 Internal Quality Assurance Cell
 Maulana Azad College of Arts,
 Science & Commerce, Aurangabad.




B. Chaitanya
COORDINATOR
Internal Quality Assurance Cell
Maulana Azad College of Arts,
Science & Commerce, Aurangabad.

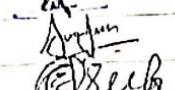
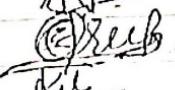
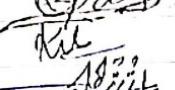
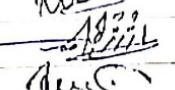
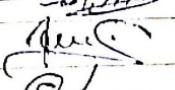
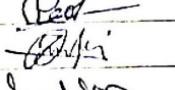
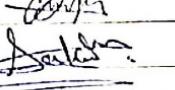
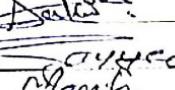
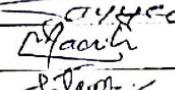
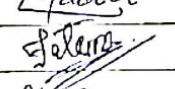
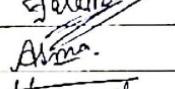
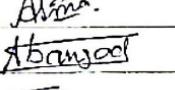
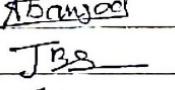
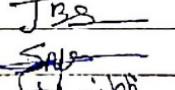
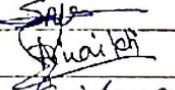
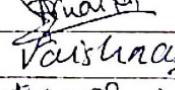
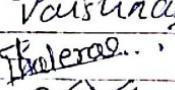
Dr. Rafiq Zakaria Campus
Maulana Azad College of Arts, Science and Commerce
Aurangabad

**Green initiative – Dept of Microbiology in association with Microbiological society,
India**

Vermicomposting for kitchen gardens and small scale business venture (27.12.2018)

Speaker: Dr. Aditi Bhattacharya

Supervised by : Dr. Madhuri Sahasrabudhe

Roll no.	Class	Students Name	Signature
221	BSc	Shaikh Md. Arman	
220	BSc I st	Mohammad Sadique	
227	B.Sc I st	Mohammad Areeb	
201	BSc I ^Y	Syeda Gulsoom Jalema	
203	BSc I st	Samiya ayman	
218	BSc I ^Y	Shaikh Farheen	
243	BSc I	Faisal N. Khan	
209	BSc I ^Y	Quadri Jumna Ahmed	
223	BSc I st	Mohammad Saqib	
253	B.Sc. C2	Sayyed Attaullah	Sayyed Attaullah
240	B.Sc FY	Madina Iffat	
219	B.Sc FY	Fatima Nasir	
233	BSc I ^Y	Shaikh Asma	
217	BSc I ^Y	Bansod Akanksha	
230	BSc I ^Y	Jyoti Shelke	
237	BSc I ^Y	Shweta gawali	
210	BSc I ^Y	Ayasha shaikh	
211	BSc I ^Y	Vaishnavi shelke	
215	BSc I ^Y	Komal Bhalerao	
204	BSc I ^Y	Ishrat Fatima	

Chairwoman
(Faculty & Infrastructure).
COORDINATOR
Internal Quality Assurance Cell
Maulana Azad College of Arts,
Science & Commerce, Aurangabad.

Dr. Magahan Ahmad Lanogui
(Principal)
Maulana Azad College
Aurangabad

MAULANA AZAD COLLEGE OF ARTS, SCIENCE AND COMMERCE, AURANGABAD

Name of the Event / Activity: Excursion to Gautala Wildlife Sanctuary

Date: 15th September 2018

Venue: - Tal. Kannad, Gautala Wildlife Sanctuary, Dist. Aurangabad

No. of Beneficiary: 25

Type of Beneficiary: Students and Teachers

Goals and Objectives: To Study Grassland Ecosystem and explore Angiosperm families.

Highlights of the Program:

- All Students and staff members reported at 07:00 am at Dr. Rafiq Zakaria Campus, (Parking Site) and departed to excursion at 07:30 am.
- Reached to destination at around 10:00 am.
- After having some refreshment beneficiaries along with teachers proceeded towards fields.
- **Dr. Sadat Quazi** accompanying to the fields helped students to carry out various ecological experiments using quadrat method. **Dr. Yahya Khan** explained about the various Angiosperm families' plant present in the region and demonstrated medicinal properties of the plants.
- Students after having lunch enjoyed by playing games and had leisure time.
- Departure to Aurangabad started at 4:00 pm and reached destination at 06:00 pm.

Relevance and outcome:

Students were made aware about Grassland ecosystem and vegetation type, students also benefited from number of angiosperm families and their diversity.

Feedback analysis (Comments/suggestions):

Students expressed their satisfaction and suggested to organize more such trips.

Programme co-coordinator: Dr. Sadat M. Quazi.

Organizing Committee: - Dr. Sadat Qauzi, Dr. Yahya Khan, Dr. Ashfaque Khan.

Excursion to Gautala Wildlife Sanctuary, 15th September 2018





Dr. Rafiq Zakaria Campus
 Maulana Azad College of Arts, Science and Commerce
Department of Botany

Excursion Attendance 15th September 2018

Sr. No.	Name of the Student	Roll No.	Signature,
1	Ayhad Sneha Santosh	524	<u>Ayhad</u>
2	Kharat Pratiksha	506	<u>Kharat</u>
3	Kharat Amruta	521	<u>Amruta</u>
4	Shaikh Anam Fatema	531	<u>Anam</u>
5	Khan Ayesha ajaz	541	<u>Ayesha</u>
6	Shaikh Adiya-e-masurah	532	<u>Adiya</u>
7	Shaikh Fum Afreen	522	<u>Afreen</u>
8	Mirza Simran	520	<u>Simran</u>
9	Khan Noor-u-Saba	552	<u>Noor</u>
10	Siddiqui Umaria	554	<u>Umaria</u>
11	Khan Maniza	558	<u>Maniza</u>
12	Armaghan Shigraf	553	<u>Armaghan</u>
13	Shaikh Samreen Fatima	516	<u>Samreen</u>
14	Shaikh Khudaiya	222	<u>Khudaiya</u>
15	Khan Rehwa Fatima	211	<u>Rehwa</u>
16	SYED UBAID	542	<u>Ubaid</u>
17	Shursh Mold Sartab Mold Muzaffar	534	<u>Sartab</u>
18	Ahetsheham Khan	502	<u>Ahetsheham</u>
19	Shaikh Mansab	308	<u>Mansab</u>
20	SAYYED SHOEIB	543	<u>Shoeib</u>

Faculty Accompanying:

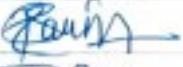
1. Dr. Sadaf M. Quazi

2. Dr. Farzana Shaikh

3. Dr. Yatya Khan

Dr. Rafiq Zakaria Campus
 Maulana Azad College of Arts, Science and Commerce
Department of Botany

Excursion Attendance 15th September 2018

Sr. No.	Name of the Student	Roll No.	Signature.
21	SHAH RAMIJ HABIB	555	
22	Shaha Irfan Yunus	544	
23	Shaikh Abdul Ahad	304	
24	Shrab Ahmed	509	
25	SHAIKH ABDUL MOID	309	
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Faculty Accompanying:

1. Dr. Sada M. Quazi

2. Dr. Farannum Shaikh

3. Dr. Yahya Khan

Department of Zoology Visited Bhandardara

Glimpsess of Bhandardara MAULANA AZAD COLLEGE OF ARTS, SCIENCE AND COMMERCE, AURANGABAD

Name of the Event / Activity: Excursion to Bhandardara

Date: 20th December 2018

Venue: - Bhandardara Dam and Forest, Ahmednagar

No. of Beneficiary: 30

Type of Beneficiary: Students and Teachers

Goals and Objectives: To acquire knowledge of biodiversity in Bhandardara Region of Western Ghats

Highlights of the Program:

- All Students and staff members reported at 03:30 am at Dr. Rafiq Zakaria Campus, (Parking Site) and departed to excursion at 04:00 am.
- All the Beneficiaries reached to venue at 10:00 am.
- After having some refreshment beneficiaries along with teachers proceeded towards fields.
- Teacher accompanying to the fields explained about the various plants present in the region and demonstrated medicinal properties of the plants
- After having lunch students and staff visited Dam and enjoyed boat ride.
- Students were made aware about historical events in building dam.
- Departure to Aurangabad started at 5:00 pm and reached destination at 10:00 pm.

Relevance and outcome:

Students were made aware about natural resources, conservation of biodiversity and importance of forest medicinal plants.

Feedback analysis (Comments/suggestions):

Students expressed their satisfaction and suggested to organize more such trips to boom their knowledge.

Programme co-coordinator: Dr. Sadat M. Quazi.

Organizing Committee: Dr. Sadat Qauzi, Dr. Rafiuddin Naser, Dr. Ashfaque Khan and Dr. Yahya Khan.

Excursion to Bhandardara 20-12-2018





Dr. Rafiq Zakaria Campus
 Maulana Azad College of Arts, Science and Commerce
Department of Botany

Bhandara Excursion Attendance 20 December 2018

Sr. No.	Name of the Student	Roll No.	Signature.
1	Shaikh Nusrat	209	Ran
2	Shaikh Farha Anam	551	Farha
3	Shaikh Samreen	215	Samreen
4	Shaikh Flicka	524	Flicka
5	Bushra Shafeen	219	Bushra
6	SIDDQUI ADEEBA FARHEEN	541	Adeeba
7	Khan Ibtisam	542	Ibtisam
8	Farooqui Sana Parveen	565	Sana
9	Quazi Adiba	558	Adiba
10	Sk. Afifa	520	Afifa
11	Arshma Naaz	521	Arshma
12	Syeda Humaira Heshmi	217	Humaira
13	Baqbhan Fatema	533	Fatema
14	Nahira Taxeen	562	Nahira
15	Nikhat Sharneen	563	Nikhat
16	Sayyeda Afsha	535	Afsha
17	Shaikh Rohat	509	Rohat
18	Yameelah Flicka	572	Yameela
19	Shaikh Rumman	530	Rumman
20	NAPPEELA TAHSEEN	204	

Faculty Accompanying:

1. Dr. Sadat M. Quazi

Sadat

2. Dr. Afroz Sayyed

3. Dr. Yahya Khan

Dr. Rafiq Zakaria Campus
 Maulana Azad College of Arts, Science and Commerce
Department of Botany

Excursion Attendance 20 December 2018

Sr. No.	Name of the Student	Roll No.	Signature.
21	Shahnawaz Altameesh	518	Shawz
22	Shezaib Zulfiqar	517	Shezaib
23	Aaqib Faraz	511	
24	Salman	543	Salman
25	Sheeb Khem	534	Sheeb
26	Atique	108	Atique
27	Abuzeb	522	Abuzeb
28	Saqib	557	Saqib
29	Masim	552	Masim
30	Mum	539	Mum
31	Rehan	533	Rehan
32	Atique Rehan	533	Atique
33	KHAN SADIYA	324	KHAN SADIYA
34			
35			
36			
37			
38			
39			
40			

Faculty Accompanying:

1. Dr. Sadat M. Quazi

2. Dr. Afroz Sayyed

3. Dr. Yahya Khan

Non-Teaching Staff Accompanying

Mr. Syed Anwar

Mr. Niyamatullah Khan

Dr. Rafiq Zakaria Campus-1
Maulana Azad College of Arts, Science and Commerce,
Aurangabad.

EXPERIENTIAL LEARNING DETAILS

Department Of Microbiology

Academic Year:- 2018-19

Sr. No	Class	No. of Experiments	Practical papers	No. of Students
1	B.Sc I year	23	Paper III & VI	43
2	B.Sc II year	48	Paper IX & XIII Paper X & XIV	22
3	B.Sc III year	43	Paper XVII & XXI Paper XVIII & XXII	30

