



**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)

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 Bagh, 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.



Dr. Aditi Bhattacharya
IQAC Coordinator

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

Dr. Mazahar Ahmad Farooqui
Principal

Principal
Maulana Azad College
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 | Ayhad Sneha Santosh | 524 | <i>Ayhad</i> |
| 2 | Kharat Pratiksha | 506 | <i>Kharat</i> |
| 3 | Kharat Amruta | 521 | <i>Amruta</i> |
| 4 | Bhaikh Anam Fatema | 531 | <i>Anam</i> |
| 5 | Khan Ayesha ajaz | 541 | <i>Ahan</i> |
| 6 | Shaikh Adiya e. masurah | 532 | <i>Adiya</i> |
| 7 | Shaikh Irum Afreen | 522 | <i>Afreen</i> |
| 8 | Mirza Simran | 520 | <i>Simran</i> |
| 9 | Khan Noor - u - Saba | 552 | <i>Noor</i> |
| 10 | Siddiqui Umayra | 554 | <i>Umayra</i> |
| 11 | Khan Maniza | 558 | <i>Maniza</i> |
| 12 | Armaghan Shigrafi | 553 | <i>Armaghan</i> |
| 13 | Shaikh Sameen Fatima | 516 | <i>Sameen</i> |
| 14 | Shaikh Khudaia | 222 | <i>Kh</i> |
| 15 | Khan Leha Fatima | 211 | <i>Leha</i> |
| 16 | SYED UBAID | 542 | <i>Ubaid</i> |
| 17 | Shaikh Mohd Sakib Mohd Musaffar | 534 | <i>Sakib</i> |
| 18 | Aheleshm Khan. Iftekhar | 502 | <i>Aheleshm</i> |
| 19 | Shaikh Mansab | 308 | <i>Mansab</i> |
| 20 | SAYYED SHOEB | 543 | <i>Shoeb</i> |

Faculty Accompanying:

1. Dr. Sadat M. Quazi

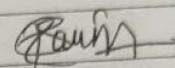
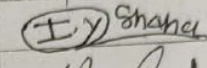
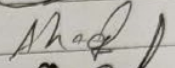
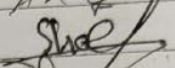
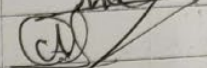
2. Dr. Tarannum Shaikh

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 RAMIJ HABIB | 555 |  |
| 22 | Shaba Irfan Yunus | 544 |  |
| 23 | Shaikh Abdul Ahad | 304 |  |
| 24 | Shab Ahmad | 509 |  |
| 25 | SHAIKH ABDUL MOID | 309 |  |
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| 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

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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: 12/2018.19/7/91

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,

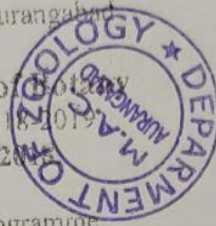
Yours faithfully,

(Dr. Mohd. Razaullah Khan)
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 Botany
Excursion 2018-2019
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
2. Dr. Tarannum Shaikh
3. Dr. Yahya Khan

Sadat
T.S.
Y.K.

Non-Teaching Staff Accompanying

- Mr. Syed Anwar
Mr. Niyamatullah Khan
Mrs. Bharti Ghule

M. Ghule



Date:-14-09-2018

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

Permitted
Pl. go to gather
Bot + Zoo
J.D. Sheikh
14/9

Subject:- Permission for the
Excursion tour.

Respected sir,

with reference to above cited
subject & as per B.Sc S.Y (III semester) a Excursion
tour is compulsory. Therefore we would like
to visit Gantala Wildlife Sanctuary on 15/9/18.
Kindly grant us permission
for the same.

Thanking you,

Yours faithfully
J.D. Sheikh

Dr. J.D. Sheikh.



Glimpses of Salim Ali Lake



Bird Watching Activity




The I/C P
Dr. Rafiq
Maulana A
Aurangab
Sub : U.c

Pennellus Vetter
P. Preponae H. G.

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

I, Dr.Madhuri Sahasrabudhe and Mr.Zeeshan Habib will be accompanying the students and the visit timing will be from 10 to 4pm .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.

Yours faithfully,

(Dr. Aditi Bhattacharya)



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

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NATIONAL INSTITUTIONAL RANKING FRAMEWORK - 151-200**

Ref. No. MAC: 12/2018-19/517

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

[Signature]
25-08-2018

[Signature]
(Dr. Mohd. 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.

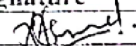
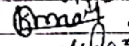



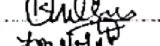


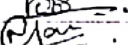
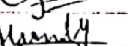
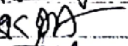

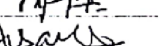




Phone number- 240 2553761.

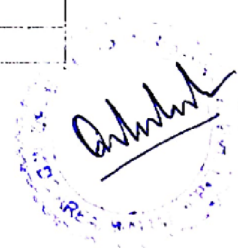
All the concerned students have to inform their parents that the tour will be from 10.20 to 4.30p.m after which we will return to College. Reaching time should be by 5.30 p.m .Lunch will be provided by the company. You are required to go through the QA and QC procedures, assay , GMP etc to understand 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 III year students

| Srno | Name of the student | Class | Signature |
|------|-------------------------|-------------|---|
| 1. | Baig Nasmern | B.Sc III |  |
| 2. | Dobkade Kamal | B.Sc III |  |
| 3. | yusna Naaz | B.Sc III |  |
| 4. | Anam Tazeem | B.Sc III |  |
| 5. | Mariyam Shahal | B.Sc III |  |
| 6. | Quazi Ammara | B.Sc III |  |
| 7. | Shakib Kulsam | B.Sc III |  |
| 8. | Sh. Malika Mehwish | B.Sc III |  |
| 9. | Nabeela Tahseen. | B.Sc III |  |
| 10. | Farooqui Afiqeen | B.Sc III |  |
| 11. | Beega Singh | B.Sc III |  |
| 12. | Nusrat Sheikh | B.Sc III |  |
| 13. | Azif Uddin Mondal | B.Sc III yr |  |
| 14. | SK Gnamul-Haque | B.Sc III |  |
| 15. | Murge Shikprasad | B.Sc III yr |  |
| 16. | Farooqui Mohammed Yagub | B.Sc III yr |  |
| 17. | Ansari Sayed | B.Sc III yr |  |



| | | | |
|-----|----------------------|-------------|-----------------|
| 18. | Bushra Shaheen. | BSC IY. | Bushra Shaheen. |
| 19. | Mehwish Isbani. | BSC III. Yr | Mehwish Isbani. |
| 20. | Habibi Syeda Humaira | BSC III. | Habibi |

List of B.Sc II year students

| Srno | Name of the student | Class | Signature |
|------|-----------------------|---------------------------|-----------|
| 1. | Chhote Shradolha | B.Sc II nd yr | Shradolha |
| 2. | peharkae Ashwini | B.Sc II nd yr | Ashwini |
| 3. | Samreen Anwar Khan | B.Sc II nd yr | Samreen |
| 4. | POOJA ANIL DHAKNE | BSC II nd year | Dhakne |
| 5. | Priyanka Sanchao dake | BSC II nd year | Priyanka |
| 6. | Shaikh Sayma Rafik | BSC II nd yr | Shaikh |
| 7. | Shaikh Heena Kausar | BSC II nd yr | Kausar |
| 8. | Shaikh Misha | BSC II nd yr | Misha |
| 9. | Barka S Bimmazi | BSC II nd yr | Barka |
| 10. | Shaikh Rousha | B.Sc II nd yr | Rousha |
| 11. | Raig Buleira Parveen | BSC II nd yr | Parveen |
| 12. | Khan Uzma Anjum | BSC II nd yr | Anjum |
| 13. | Khan Zehra Fatima | B.Sc II nd yr | Zehra |
| 14. | Shaikh Khudaija | BSC II nd yr | Khudaija |
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1. VAIDEHI SHRI PAD PISU.
2. QURRAT-UL-AIN SHAIKH

Qurrat-ul-Ain Shaikh



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

DEPARTMENT OF MICROBIOLOGY

CERTIFICATE

This is to certify that Farooq Ameen, 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)



Chaitanya
Signature of the HOD, Microbiology

Maulana Azad College, A'bad

Chaitanya
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:

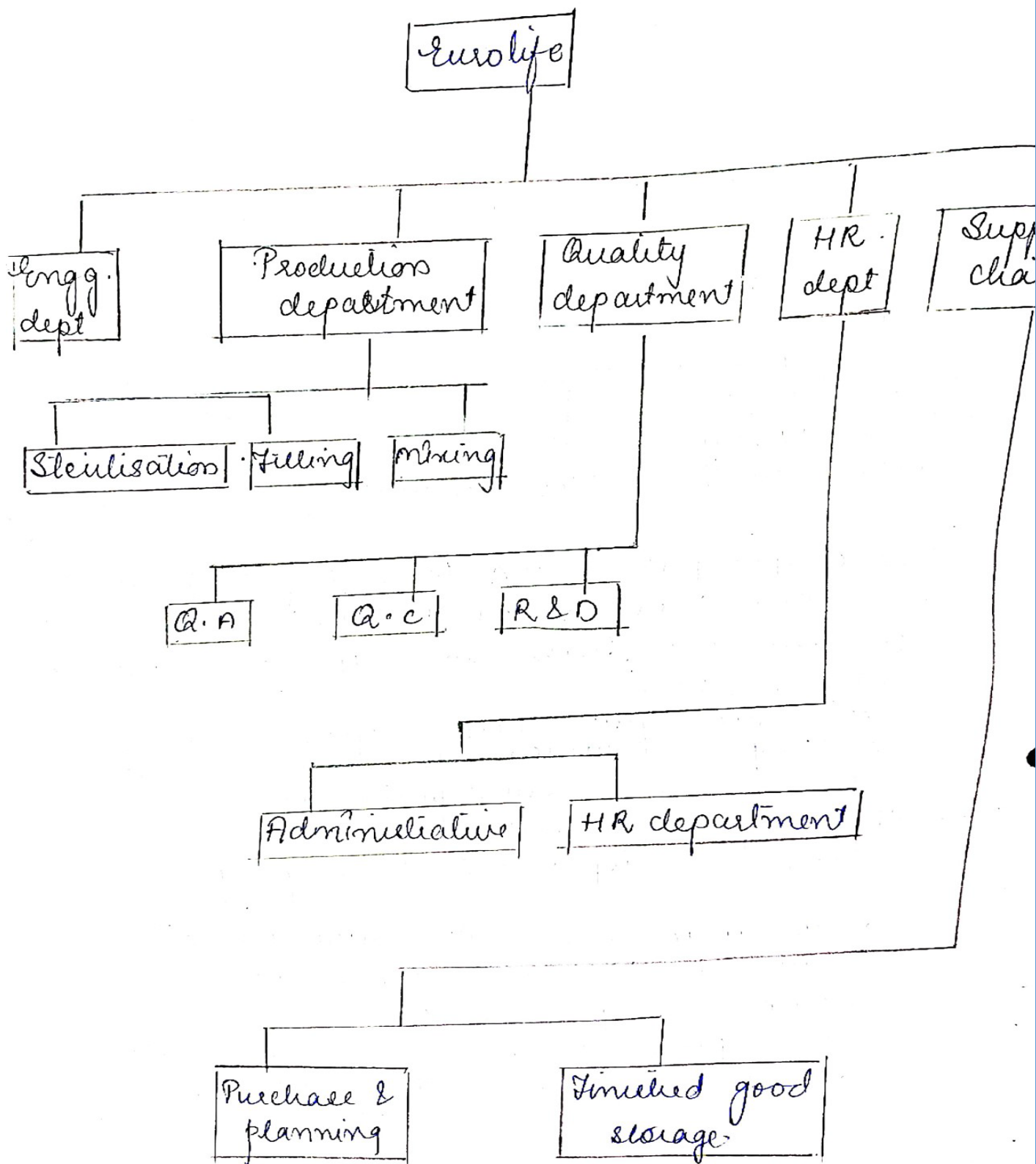
"Eurolife Health care Private Ltd. B-15/2, MIDC Area Waluj-431136, Aurangabad.

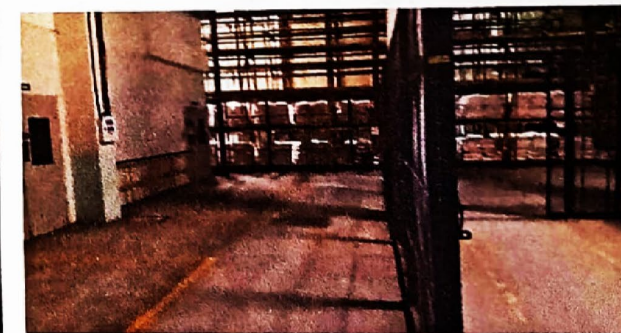
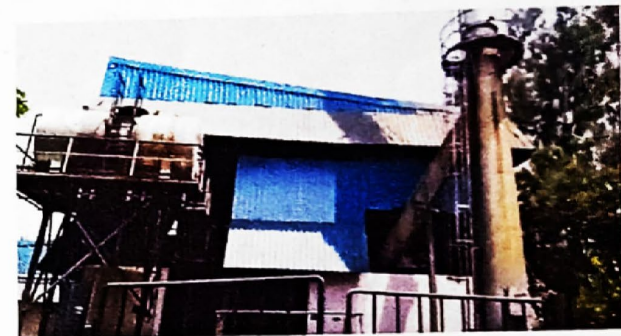
Name of the resource person : Nandana Mam.

Intro- Eurolife healthcare Pvt-Ltd is the fastest growing comp-
any established its unit here in A'bad 2014. This unit
produces IV fluids as its main product Sandeep Joshi is
CEO, of Eurolife monitor - the unit of pharma industry.

Introduction :

- The company is known to supply the products to distributor, various institution & also transport the stock to different branches of Eurolife.
- There are five core department in company which are further class-ified in subdepartment.
- The department mentioned below are core department of company
- There were some other areas where small works was being done like bottle 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 - caseine digest media for aerobes, yeasts & molds.
- 3) Vitek 2 compact is an equipment used for 'identifica' of any contaminants using cards (Gram positive / Gram negative & Baillus 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.
- 7)
- 8) DEPT NO 1 & RMS (Raw material Store).
- 9) - A specific protocol is followed in RMS for raw material which is received.
- 10) Raw material
↓
MRN generation [gives identity to material]
↓
dedusting [helps to minimise contamination due to dust particles]
↓
Temp is maintained in case of particulate materials
↓
Storage. [There were racks where specific material were stored]

3] Supply chain department:- The packages are stored here in this department. Det
R
is done according to orders.

- The dept is well maintained for cleanliness, humidity level is also maintained to avoid kind of fungal growth.
- 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 4 hrs 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 lit of air.
- Main tests involved are bacterial endotoxin test for Gram negative bacteria is done.
- Lcl clot test is followed 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 just checked for cations & other ions also for COD.
- 3) - Effluent which have COD of 1000 ppm it is reduced to 400 ppm according to the name
- 4) norms provided by government.
- Microbial consortium is used for the treatment of effluent that includes Lactobacillus, etc. Initially these cultures are used for
- 6) next effluent to be treated.
- The effluent after treatment is used for gardening purpose or sometimes drained out.

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 dept.
 - 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 sterilisation 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)
- 3)
- 4) - The bottles are then packed in boxes. This ends the production & packaging process.
- 5)

Signature of the student : 

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

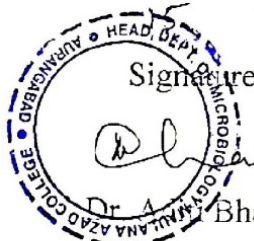
Name of the College : Maulana Azad College, A'Bad.

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 | Shaikh |
| 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 |
| 14 | 225 | Bin Mazi Barka Saud | Bin Mazi |

215 SAMREEN ANWAR KHAN

Samreen

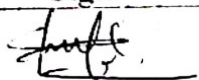

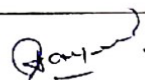
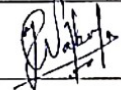
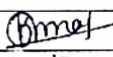



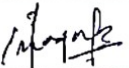
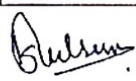

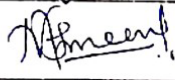



Signature

[Handwritten Signature]
Dr. A. Bhattacharya

(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 Rashheed Ansari |  |
| 4 | 204 | Nabeela Tahseen Mohd Ateequr Rehman |  |
| 5 | 205 | Syeda ummairah 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 Aqueel 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 Humaira Syeda Muzzammil Ahmed | |
| 15 | 218 | Yusra Naaz Shaikh Zuber | |
| 16 | 219 | Bushra Shafin Gulam Rasool | |
| 17 | 222 | Farooqui Afreen rafiq Ahmed | |
| 18 | 223 | Arifuddin Mondal Abdur Rob Mondal | |
| 19 | 216 | Mehwish Joram | |

Signature,

Dr. Aditi Bhattacharya

(HOD Microbiology Dept)

20. VAIDEHI SHRIPAD PISU

21. SHAIKH SURRAT-UL-AIN

40
Pisu
Shaikh

Green initiative

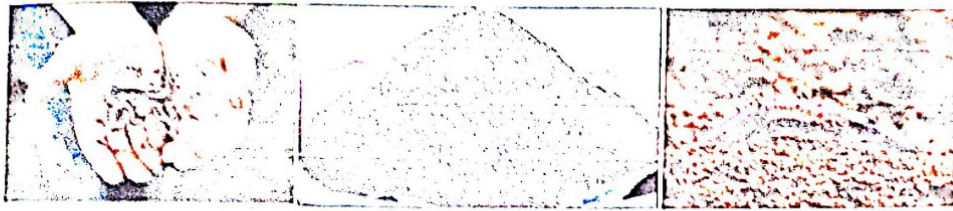
**Dept. of Microbiology , Maulana Azad College of Arts,
Science and Commerce, Aurangabad.**

In association with Microbiologist society, India

27-12-2018

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

Dept. of Microbiology
Experiential Learning / Skill Enhancement 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.



Chandigarh

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. Ammar | |
| 220 | Bsc Ist | Mohammad Sadique | |
| 227 | B.SCI | Mohammad Areeb | |
| 201 | BSCIY | Syeda Kulsoom Fatima | |
| 203 | BSCI st | Pomiyah ayman | |
| 218 | BSCIY | Shaikh Farheen | |
| 243 | BSCI | Faizal N. Khan | |
| 208 | BSCI st | Quadar Juman Atham | |
| 223 | BSCI st | Mohammad Saqib | |
| 253 | B.SCI | Ayaz Aftab | |
| 240 | B.SCIY | Madiha Iffat | |
| 219 | B.SCIY | Fatima Mastur | |
| 233 | BSCIY | Shaikh Asma | |
| 217 | BSCIY | Bansod Akanksha | |
| 236 | BSCIY | Jyoti Shelke | |
| 237 | BSCIY | Shweta gaudai | |
| 210 | BSCIY | Ayasha shaikh | |
| 211 | BSCIY | Vaishnavi shelke | |
| 215 | BSCIY | Komal Bhalerao | |
| 204 | BSCIY | Ishrat fatima | |

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 | Ayhad |
| 2 | Kharat Pratiksha | 506 | Kharat |
| 3 | Kharat Amruta | 521 | Amruta |
| 4 | Bhaikh Anam Fatema | 531 | Anam |
| 5 | Khan Ayesha ajaz | 541 | Ayesha |
| 6 | Shaikh Adiya.e.masurah | 532 | Adiya |
| 7 | Shaikh Irum Afsreen | 522 | Irum |
| 8 | Mirza Simran | 520 | Simran |
| 9 | Khan Noor-u-Saba | 552 | Noor |
| 10 | Siddiqui Umayra | 554 | Umayra |
| 11 | Khan Maniza | 558 | Maniza |
| 12 | Armaghan Shigrafi | 553 | Armaghan |
| 13 | Shaikh Sarveen Fatima | 516 | Sarveen |
| 14 | Shaikh Khudaija | 222 | Khudaija |
| 15 | Khan Zehera Fatima | 211 | Zehera |
| 16 | SYED UBAID | 542 | Ubaid |
| 17 | Shaikh Mohd Sakib Mohd Mazaffar | 534 | Sakib |
| 18 | Ahetesham Khan. Iftekhar | 502 | Ahetesham |
| 19 | Shaikh Mansab | 308 | Mansab |
| 20 | SAYYED SHOEB | 543 | Shoeb |

Faculty Accompanying:






1. Dr. Sakai M. Quazi

2. Dr. Tarannum Sheikh

3. Dr. Yafya 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 | Shab Ahmed | 509 |  |
| 25 | SHAIKH ABDUL MOID | 309 |  |
| 26 | | | |
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| 40 | | | |

Faculty Accompanying:

1. Dr. Sadat M. Quazi

2. Dr. Farooq Shaikh

3. Dr. Yahya Khan




Department of Zoology Visited Bhandardara

Glimpss 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. Ashfaq 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

Bhandardara Excursion Attendance 20 December 2018

| Sr. No. | Name of the Student | Roll No. | Signature. |
|---------|-------------------------|----------|--------------------|
| 1 | Shaiikh Nusrat | 209 | <i>[Signature]</i> |
| 2 | Shaiikh Farha Anam | 551 | <i>[Signature]</i> |
| 3 | Shaiikh Samreen | 215 | <i>[Signature]</i> |
| 4 | Shaiikh Fliba | 524 | <i>[Signature]</i> |
| 5 | Bushra Shafeen | 219 | <i>[Signature]</i> |
| 6 | SIDDIQUI ADEEBA FARHEEN | 541 | <i>[Signature]</i> |
| 7 | Khan Ibtisam | 542 | <i>[Signature]</i> |
| 8 | Farooqui Sana Parveen | 565 | <i>[Signature]</i> |
| 9 | Quazi Adiba | 558 | <i>[Signature]</i> |
| 10 | Sk. Alfia | 520 | <i>[Signature]</i> |
| 11 | Arshma Naaz | 521 | <i>[Signature]</i> |
| 12 | Syeda Humaira Hashmi | 217 | <i>[Signature]</i> |
| 13 | Baghban Fatema | 653 | <i>[Signature]</i> |
| 14 | Nahera Taxeen | 562 | <i>[Signature]</i> |
| 15 | Nikhat Sharmeen | 563 | <i>[Signature]</i> |
| 16 | Sayyeda Afsha | 535 | <i>[Signature]</i> |
| 17 | Shaiikh Rohat | 509 | <i>[Signature]</i> |
| 18 | Janzeel Firdous | 572 | <i>[Signature]</i> |
| 19 | Shaiikh Summaya | 530 | <i>[Signature]</i> |
| 20 | NABEELA TAHSEEN | 204 | <i>[Signature]</i> |

Faculty Accompanying:

1. Dr. Sadat M. Quazi

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 | Shahmauaz Altamash | 518 | Shah |
| 22 | Shazeel Zaki | 517 | Shazeel |
| 23 | Aaqib Faraz | 511 | |
| 24 | Salamun | 543 | |
| 25 | Shoeb Khan | 534 | |
| 26 | Atique | 108 | |
| 27 | Abuzel | 522 | AB |
| 28 | Saqib | 557 | claw |
| 29 | Masim | 552 | WZ |
| 30 | Nam | 539 | LD |
| 31 | Rehan | 533 | Rehan |
| 32 | Atique Shakeel | 518 | Atique |
| 33 | KHAN SADIYA | 324 | SA |
| 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

1. Mr. Syed Anwar
2. 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 |


Dr. Aditi Bhattacharya
(Prof & HOD Microbiology)