



**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

2019-20



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

Department of Physics and Electronics Visited Endress
Hausser

Date: 25/11/2019

To,
The Principal,
Maulana Azad College,
Aurangabad.

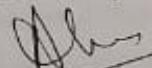
Subject: Permission to Visit Endress Houser Wetzer India Pvt. Ltd.

Sir,

We are planning to visit Endress Houser, Aurangabad, a giant in Industrial Automation products, along with B. Sc. II and III year Physics & Electronics Students as a part of co-curricular activity. About 20 to 25 students are willing to visit. Kindly permit us to make necessary arrangements for the visit.

Thanking you.

Yours Sincerely,


(Dr. A.J. Pathan)
HOD, Electronics



Permitted
27/11

Endress + Hauser - 1953.

8 Plants Swiss-German Company

5S

Awareness Training Prog

Origin of 5S (Japan)

Sort

Set in order

Shine

Standardize

Sustain

Seiri

Seiton

Seiso

Seiketsu

Seishin

Benefits - Safety, Quality, Efficiency - Elimination of error

① To Improve → Assess the conditions.

② Sort → Decide what v need.

Remove unnecessary clutter → (tag them)
Classify & store

Remove unusable / occasional things.

→ Set In Order → Name them so they are easy to access and find it fast.
(litmus Test)

→ Shine → Cleanliness

→ Spotless workplace

→

Underline After ② first 3S "standardization" is done. (Visual control).

B.Sc. IInd Year:

Sr. No.	Roll No.	Students Name
1	528	Abhijeet Kale
2	523	Quanita Firdoos
3	405	Kamakshi Pai
4	407	Fatima Naqvi
5	404	Afreen Siddiqua
6	408	Alina Naqvi
7	03	Manika Singh
8	530	Saniya Fateenya
9	402	Nikita Shinde
10	543	Rizwan Md.
11	538	Sk. M.A. Rafiqe

Ab
 Quanita
 Kamakshi
 Fatima
 Afreen
 Alina
 Manika
 Saniya
 Nikita
 Rizwan
 Sk. M.A. Rafiqe

B.Sc. IIIrd Year:

Sr. No.	Roll No.	Students Name
1	513	Deshnukh Bushra
2	523	Saina Iffat
3	560	Sanjana Kale
4	406	Shaikh Ayesha
5	544	Nusra Nahari
6	404	Mustakim Patel
7	008	Patel Sajed

Bushra
 Iffat
 Sanjana
 Shaikh
 Nusra
 Patel
 Sajed



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, (India)
Tel.: 0240-2381102, 2381668 | Web: <http://maca.ac.in> | Fax: 0240-2390422 | Email: macprincipal@gmail.com

MINORITY INSTITUTE

AC Re Accredited Grade 'A'

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

Date: 27/11/2019

Ref. No. MAC: 12/2019-20/1473

To,
The Manager HR,
Endress+Hauser India Pvt. Ltd.,
MIDC, Waluj,
Aurangabad.

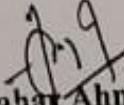
Subject: Permission to visit your premises.

Sir,

Ours is a senior college running graduate courses in Physics and Electronics. The students enrolled study different applied aspects of physics leading to various applications. It will be of great help for the students if they get firsthand knowledge of various sensing techniques and control applications used in industrial automation. Therefore, you are requested to kindly permit our teachers, along with 25 students of B.Sc. Second Year and Third Year to visit your premises. Planned visit will be on Friday 29th November 2019 at 10:30 am.

Thanking you.

Yours Sincerely,


(Dr. Mazahar Ahmad Farooqui)
Principal

Industrial Visit to Endress & Hauser Pvt. Ltd.



Name	Roll No.	Sign.
1. Quanita firdous	- 523	Firdous
2. Soniya fatema	- 524	Sonoya
3. Maundha Noorain	- 528	Maundha
4. Sana Khan	- 402	Sana Khan
5. Afreen Siddiqua	- 406	Afreen
6. Komalshi Pai	- 405	Komalshi
7. Alina Nagvi	- 408	Alina Nagvi
8. Fatema Nagvi	- 404	Fatema Nagvi
9. Vandana Misal	- 02	Vandana Misal
10. Manika Singh	- 01	Manika Singh
11. Vaishnavi Taiswal	106	Vaishnavi Taiswal
12. Tejaswini Nimblore	- 104	Tejaswini Nimblore
13. Khan Zainab fatema	- 03	Khan Zainab fatema
14. Shaikh Samrin	- 403	Shaikh Samrin
15. Shaikh Afreen S.K. wajed	- 04	Shaikh Afreen S.K. wajed
16. Pathan Asif Yousuf Khan	- 06	Pathan Asif Yousuf Khan
17. Abhijeet Kable	- 525	Abhijeet Kable
18. Abhishek butle	- 115	Abhishek butle
19. Vaibhav hamand	- 509	Vaibhav hamand
20. Prajwal Burude	- 535	Prajwal Burude



Department of Zoology visited to Salim Ali lake in 2019-20

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 to Zoological Museum

Date:- 22-8-2019 Time:- 11.00 AM

Place: Dr. B. A. M. U. Aurangabad Number of beneficiaries:-38

Type of activity:- Curricular

Details of the Programme:-

1. B.Sc. S.Y. & T.Y. students are visited to Zoological Museum Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 22-8-2019.
2. Dr. Tarannum Tanveer explained on **systematic position of birds** to Students
3. Prof. Shejule K.B., Head Dept. of Zoology and Prof. Sunita Borde explained on Impact of helminthes parasites on human health.
4. Mr. Rahul Kale, Research student, explains brief background of DNA Bar-coding and Students handling the instrument in DNA Bar-coding Centre.
5. B.Sc. students observed various types of species in Zoological museum.
6. All students and staff members are actively participated in this excursion.

Goals and objectives:-

1. To provide the information about native animals.
2. To collect, preserve and interpret objects of aesthetic and cultural value.
3. Taxonomic studies of all faunal components collected.

Relevance and out comes:-

1. Organize field trip with experts and encourage volunteers.
2. Raise awareness and encourage discussion with the students.
3. Museum represent a major public social investment by most modern societies.

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
Maulana Azad College
Aurangabad

Activity- Dr. Tarannum Tanveer explained on **systematic position of birds** to B.Sc. S.Y. Students in Zoological Museum.

Date- 22 -8- 2019 Place – Dr. Babasaheb Ambedkar Marathwada University, Aurangabad





Activity- Prof. Sunita Borde (Dept. of Zoology) explained on **Impact of helminthes parasites on human health**





Students are observing different animals in Zoological Museum



Students handling the instrument in DNA Bar-coding Centre

Activity- Systematic position of birds in Zoological Museum.

Date- 22 -8- 2019 Place – Dr. Babasaheb Ambedkar Marathwada University, Aurangabad



DR. RAFIQ ZAKARIA CAMPUS
 MAULANA AZAD COLLEGE OF ARTS, SCIENCE & COMMERCE, AURANGABAD
 Excursion Tour : Zoological Museum
 Dept. of Zoology , Dr. B.A.M. U. Aurangabad

Date: 22/08/2019

S.NO.	ROLL NO	NAME	MOBILE NO	SIGN IN	SIGN OUT
1.	505	Zinat Khan	—	Zinat.	Zinat.
2.	503	Uzma Gazal	8421405148	<u>Uzma</u>	<u>Uzma</u>
3.	504	Aham fatima	7796488161	Aham	Aham.
4.	507	Patel Tanzeela	7447204289	Tanzeela	Tanzeela
5.	511	Huma Deshmukh	9607289489	Huma	Huma
6.	518	Syeda Saleha Afroz	8208769972	Saleha	Saleha
7.	216	Shaikh Farheen	9168827161	Farheen.	Farheen.
8.	531	Ummi Ammara Mohammad Rafat ullah	7385895001	Ammara	Ammara
9.		Shaikh Shameerah	7558592411	Shameerah.	Shameerah.
10.	532	Khan Saima	7038835361	Saima	Saima



11.	215	Komal Phalerao	9657187915	<u>Komal</u>	<u>Phalerao</u>
12.	210	Shaikh Aaysha	9860345552	<u>Shaikh</u>	<u>Aaysha</u>
13.	211	Vaishnavi Shelke	9405678095	<u>Vaishnavi</u>	<u>Shelke</u>
14.	208	Fatema Jaliwala	7776068591	<u>Jaliwala</u>	<u>Fatema</u>
15.	217	Fatema Master	8805492896	<u>Fatema</u>	<u>Master</u>
16.	212	Khan Nameera	9890154176	<u>Nameera</u>	<u>Khan</u>
17.	230	Nilima Sathe	9307766930	<u>Nilima</u>	<u>Sathe</u>
18.	209	Quadrat Juman	9156994245	<u>Quadrat</u>	<u>Juman</u>
19.	529	Shaikh Abrah	9762426070	<u>Abrah</u>	<u>Abrah</u>
20.	221	Mohammad Ameeb	9970231298	<u>Ameeb</u>	<u>Mohammad</u>
21.	220	Mohammad Sadique	9130287732	<u>Sadique</u>	<u>Mohammad</u>
22.		Shaikh Sohail	9975802575	<u>Sohail</u>	<u>Shaikh</u>
23.	213	Aliya Fatima	9146916373	<u>Aliya</u>	<u>Fatima</u>
24.	205	Samiya Afnan	9373029600	<u>Afnan</u>	<u>Samiya</u>
25.	813	Misba Khan	7666933100	<u>Khan</u>	<u>Misba</u>



26.	526	Nikhata Bano	7083898701	✓	✓
27.	533	Madhuvee Jadhav	9637812788	✓	✓
28.	514	Sayyeda Naleela	9860744220	✓	✓
29.		Masira Sultana	7058581400	✓	✓
30.	525	BAIG URUBA MIRZA	7020629030	✓	✓
31.		Sneika Shifa	91562483704	✓	✓
32.	201	Mizra Rida	7972142642	✓	✓
33.	202	Shaikh Sheekh	8888260 248	✓	✓
34.	528	Shaikh Aasif	738796 5592	✓	✓
35.	10	Sadi Fares Naum	9527775170	✓	✓
36.	14	Mohammed Abhegan	8485033396	✓	✓
37.		Sajeed Khan		✓	✓
38.		Pathan Arbaaz Khan			
39.					
40.					

1.Dr. Tarannum Tanveer Shaikh

MT
22/8/2019

2.Dr. Unaiza Nazneen

UNA 198/22/8/2019



Date 21-8-2019

To,

Dr. Shejule K.B.
Prof. & Head,
Dept. of Zoology
Dr. B.A.M.U. Aurangabad
Aurangabad

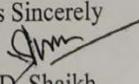
Subject:- Permission to visit Zoological Museum, Dr. B.A.M.U. A' bad

Respected Sir,

With reference to above mention subject, as per curriculum of B.Sc. I and II year Zoology students, we would like to visit Zoological museum, Dept. of Zoology, Dr. B.A.M.U. A' bad, to study museum specimens of Invertebrates and vertebrate. Kindly permit us for the same.

Thanking you

Yours Sincerely


Dr. J.D. Shaikh
Head, Dept. of Zoology
M.A.C. A;bad



O/C
Avd
21/8/2019
Department of Zoology
Dr. Babasaheb Ambedkar
Nagarkhana University, Aurangabad

Dt. 21/8/19

To,

The principal
Maulana Azad college,
Amangabad

sub: permission for excursion visit to zoology
Dept. Dr. B. A. M. V.

Respected sir,

With reference to above
mention subject our Dept is going to
organize one day excursion tour
on 22/8/2019 to Dept. of zoology
Dr. B. A. M. V. Amangabad on the
occasion of open house.

Therefore, kindly permit us
for same.

Thanking you

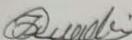
Permit
21/8



Yours faithfully
Dr. J. D. Shaikh
Dept. of zoology

Sample Copy
CONSENT LETTER

I ..Quadarji Magfary Ahmed....., Father / Mother / Guardian of
Quadarji Jumai R. Ahmed.....student of B.Sc I^{nd}, Roll No.....209.....
Dept. of Zoology, Maulana Azad College, Rouza Bagh, Aurangabad, allow my Son / Ward
for Excursion Tour to Zoological Museum Dept. of Zoology , Dr. B.A.M. U.
Aurangabad , 22 /08 / 2019 at our own risk. The College will not be responsible for any
loss of any type.


Signature of the Student

Mobile No. 9156994245


Signature of Parent/ Guardian

Address: Maulana Azad Hostel

Mobile No. 9922395376

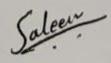
Date: 21/ 08/ 2019

CONSENT LETTER

I ..Shaikh Saleem....., Father / Mother / Guardian of
..Mohammad....., student of B.Sc I^{nd}, Roll No.....220.....
Dept. of Zoology, Maulana Azad College, Rouza Bagh, Aurangabad, allow my Son / Ward
for Excursion Tour to Zoological Museum Dept. of Zoology , Dr. B.A.M. U.
Aurangabad , 22 /08 / 2019 at our own risk. The College will not be responsible for any
loss of any type.


Signature of the Student

Mobile No. 9130287732


Signature of Parent/ Guardian

Address: Patel planet Jatwada Road A-bad.

Mobile No. 9028831678



Date 21-8-2019

To,

Dr. Shejule K.B.
Prof. & Head,
Dept. of Zoology
Dr. B.A.M.U. Aurangabad
Aurangabad

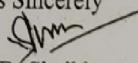
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Thanking you

Yours Sincerely


Dr. J.D. Shaikh
Head, Dept. of Zoology
M.A.C. A;bad



o/c
Avd
21/8/2019
Department of Zoology
Dr. Babasaheb Ambedkar
Nagpur University, Aurangabad

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:- 12-12-2019 Time:- 7.30 am

Place: Salim Ali Lake Number of beneficiaries:- 24

Type of activity:- Curricular

Details of the Programme:-

1. For study tour we have selected Salim Ali lake, Aurangabad
2. It is well known historical place of Aurangabad.
4. B.Sc. students observed various types of fauna like duck, peacock, fishes, snake and different types of birds etc.
5. Students observed types of birds through binocular lenses.
6. All students and staff members are actively participated in this excursion.

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 lake and sanctuaries etc.
4. 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. Raise awareness and encourage discussion with the students.
3. Conduct Community awareness programme on natural habitat protection.
4. Slogan writing and pledge taking for Save River/Lake.

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

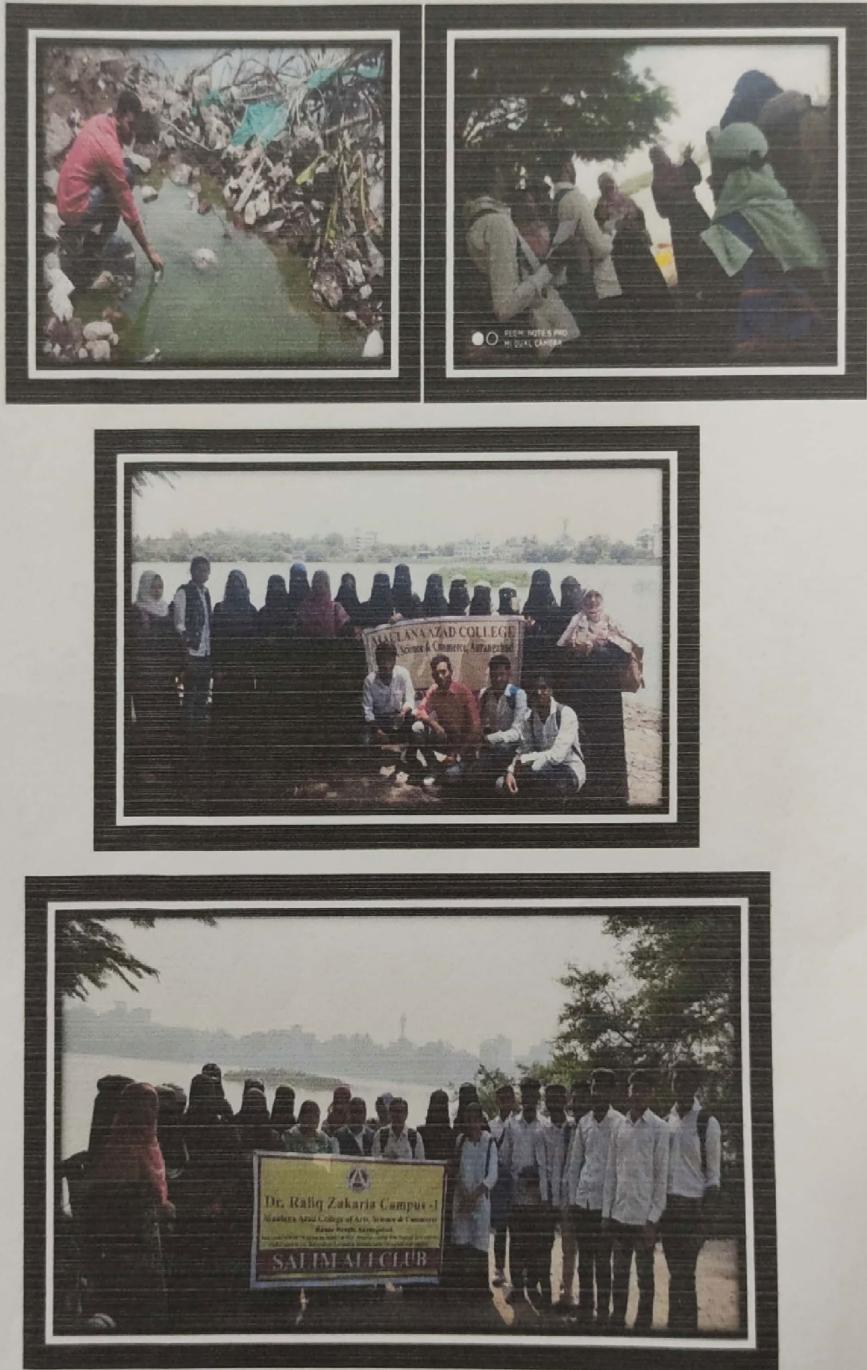


Dr. Aditi Bhattacharya
IQAC Coordinator

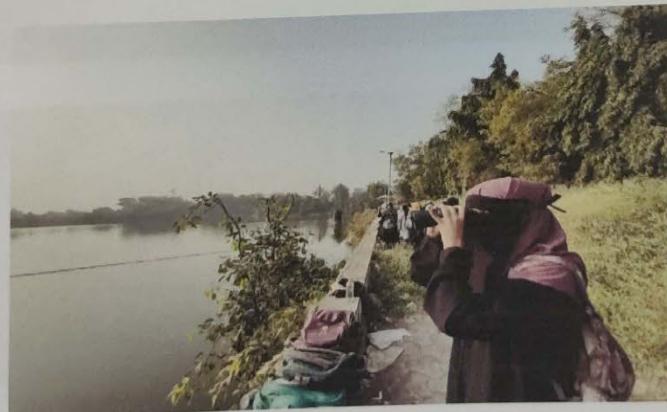
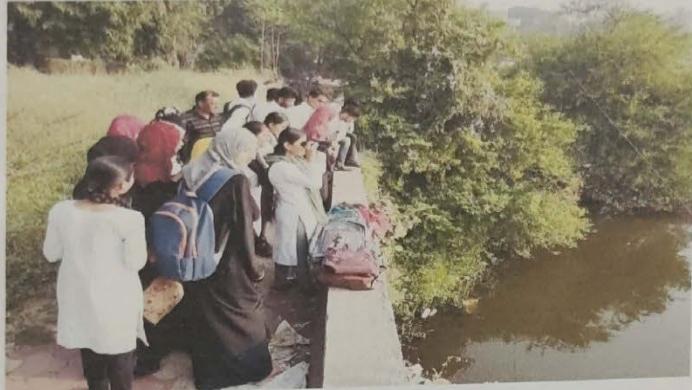
COORDINATOR
Internal Quality Assurance Cell
Maulana Azad College of Arts,
Science & Commerce, Aurangabad.

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

Visit to Salim Ali Lake, Aurangabad.



Activity- Observation of Bird Place- Salim Ali Lake No. of Students- 30
Date 12/12/2019 Time- 7.30 am



Bird Watching



Birds of Salim Ali Lake: (12/12/2019) Time- 7.30 am



DT - 10/12/19

TIME: 1.10 pm

Notice

All students of Bsc.T of zoology are here
by informed that we are going to conduct
Excusion tour at "Salim Ali lake" on 12/12/19
at 8.00 am.

All student should participate for
the same.



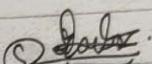
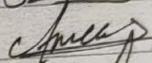
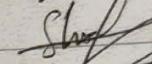
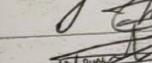
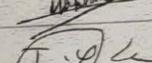
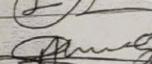
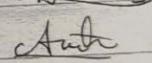
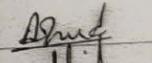
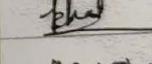
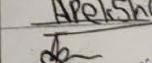
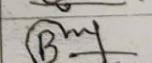
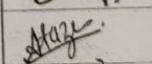
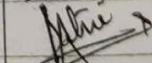
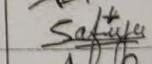
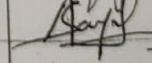
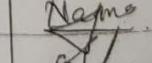
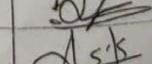
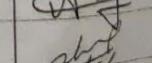
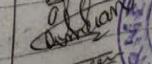
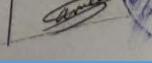
Dr. Rafiq Zakaria Complex - I
Maulana Azad College, Aurangabad

Salim Ali club
(2019-20)

Visit to Salim Ali lake

on

12/12/2019 Time: 8.00 am

Sl. No.	Name of student	class	Roll No.	signature
1	Sayed Shaeb	B.S.C.T	536	
2	Khan Ameer Yusuf	— II —	542	
3	Shaeb Ahmed	— II —	516	
4	SK. Aayaj	— II —	308	
5	Shaikh Mohd Sakib	BSC III year	529	
6	shah Irfan	— II —	543	
7	Ahmed Khan	— II —	510	
8	Amerita Rani Kharat	— II —	522	
9	Avhad Sneha Santosh	— II —	524	
10	Kharat Pratiksha	— II —	512	
11	Wadgaonkar Apeksha	— II —	518	
12	Qazi Samraan	— II —	511	
13	Shaikh bushra	— II —	530	
14	Khan Alfiya	— II —	517	
15	Patni Raisa	— II —	507	
16	Shaikh Safiya	— II —	538	
17	Shaikh Sayesha	— II —	519	
18	KHAN NAGMA	— II —	543	
19	Shaikh Humaira	— II —	539	
20	Siddiqui Dernaghan Shignaf	— II —	503	
21	Siddiqui Umarza	— II —	505	
22	Shaikh Maiya Naaz	— II —	502	
23	Mirza Simlaan	— II —	550	
24	Shaikh Samreen	— II —	501	



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 :- Visit to Cow Land MIDC, Chikalthana, Aurangabad

Date:-18-1-2020

Time:- 12.00pm

Place: Cow Land MIDC, Chikalthana, Aurangabad Number of beneficiaries:- 55

Type of activity:- Curricular

Details of the Programme:-

1. Visit to Cow Land MIDC, Chikalthana, Aurangabad for study of different types of Breed
2. Master Trainer Explained on Production and manufacturing of All Diary products.
3. B.Sc. students visit to processing centre of cow land.
4. All students and staff members returned to Aurangabad by evening at 2.00 pm.

Goals and objectives:-

1. To ensure fresh and safe milk to consumers.
2. To increase rural employment opportunities through entrepreneurship.
3. Socio-economic stability of dairy farmers.

Relevance and out comes:-

1. Organize field trip to encourage the students on diary industry .
2. Introduces courses on Diary & its management..
3. Sustainable development of the sector
4. To increase economy of the nations.

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
Aurangabad
Maulana Azad College
of Arts, Science & Commerce
Aurangabad

Visit to Cow land Dairy industry Pvt. Ltd, Aurangabad



Maulana Azad College, Amravati

Dept. of Zoology

Visit to Industrial visit (Coco Land)

Date - 18/1/2020 No. of student = 35

S. No	Name of Students	Class	Sign
1)	MIRZA AAWAZ BAIG.	BSC. II ^Y	Mirza.
2)	Khan Zainab Fatema	-v-	Khan.
3)	Shaikh Mohd Akram	-u-	Shaikh.
4)	Shaikh Shabz Shaikh Ajeez	-v-	Shabz.
5)	SAKINA ABDUL MALIK	BSC. II ^Y	Abdul.
6)	Shaikh Shabz musa	BSC. III	Shabz.
7)	Khan SUMAYYAH SHAKEEL	BSC. II ^Y	Shakeel.
8)	Dandge Rupali prem sagar	-v-	Dandge.
9)	SK. Inamul Haque	BSC. III	Inamul Haque.
10)	Uzma Gazal Shaikh	BSC. II	Uzma.
11)	Urusa Khan Hameed Hussain	BSC. III	Khan.
12)	MOHD ANAM FATIMA	BSC. II ^Y	Anam.
13)	Khan Zainat Hamid	BSC. II ^Y	Zainat.
14)	KHAN UZMA ANJUM SAMAO	BSC. III	Uzma.
15)	Jaffar Tanzela Misrat	BSC. II	Jaffar.
16)	HUMA PARVEE	-u-	Huma.
17)	Shaikh Khuelaja Shaikh Iqbal	BSC. III	Khuelaja.
18)	Shaikh Salma Nabi	BSC. II ^Y	Salma.
19)	chishty Sayyeda Nabeela	-v-	Nabeela.
20)	BINMAIZ BARKA SAUD	BSC. II	Barka.
21)	Shaikh Asra mohammed. Sabreque	BSC. II	Asra.
22)	Saba Sayed anwar	BSC. III ^Y	Saba.
23)	SD Avez SD Atique.	BSC. III ^Y	Atique.
24)			



25-	DAPKE Priyanka SAHEBRAO	BSC. III	Shaw.
26	Ghate Shraddha Larman	BSC III	Ghauran
27	Shaikh Ramsha hanif	BSC III	Rsk
28	Shaikh Ammar. M.D. AARIS	BSC IIIS	Ask.
29	Syed Humaira Anjum	BSC III	Chumra
30	Bansod. Akansha Appario	BSC SYII	Bansod.
31	SHAIKH FARHEEN SHAIKH MAEER	BSC SY.	Farheen
32	Soyyad Aameera mukhtar	-	Aameera
33	KHAN ZEHRA FATIMA	BSC. III	KZehra
34	Masly Fatema	BSC SY.	Masly.
35	Pcherrkar Divini Vilas	BSC. III	Pcherrkar
36	Shaikh Farheen Shaikh Nazeeb	BSC IIIS	Nazeeb
37	Baig Reeda Fatima	-	Reeda.
38	Pathan Sumiya AFNAN	-	Pathan
39	Zubeela Bano Abub Abdul Kader	BSC. III	Zubeela
40	SYED AFZA Jabeen	BSC. III	Syed
41	Syed Sajjael Sajid	BSC. III year	Sajjael
42	Patel Tanzeela	BSC. IIIS	Patel.
43	Shaikh Aayaj Mura	BSC. III year	Aayaj.
44	Shaikh Sana Mateen	BSC. III	Sana.
45	Mariya naaz shaikh Imtiyaz	BSC. III ya	Naaz.
46	SHAIKH Ramsha GroHari	-	Ramsha.
47	KHAN QURRATUL AIM	BSC 3 rd yr.	Qura
48	Khan Ameer Yusuf	-	Ameer.
49	KHAN NAGMA NAZEEB	-	Nagma.
50	QUAZI Samra Shafqat	BSC. III year	Samra.
51	Khan Shehmer Sultanah Mahmood	-	Shehmer
52	Shaikh Nazheer Mukhtar	BSC. III	Nazheer.
53	Nikhat Bano	BSC. IIIS	Nikhat
54	Khan Sabba shahna	-	Sabba.
55	Patni Raisa Fatema mohd farooq	BSC. III year	Raisa.
56			COLLEGE OF M.T.C. AURANGABAD 2010

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 to Fish Seed Unit, Paithan

Date:- 07-2-2020 **Time:-** 8.00 AM

Place: Dr. B. A. M. U. Aurangabad, **Number of beneficiaries:-** 45 students & 5 Staff members

Type of activity:- Curricular

Details of the Programme:-

1. B.Sc. S.Y., T.Y and M.Sc. students are visited to **Fish Seed Unit**, Paithan on 7-2-2020 for fish culture Observation of Indian major carps.
2. Students are also interacted with morphology of fishes and Fish catching method.
3. Dr. D.R. Deshmukh Professor & Head PMP, Paithan explained induced breeding in fishes.
4. Students are observed types of ponds and hatching pits.

Goals and objectives:-

1. To provide the information about fish identifications.
2. Collection, preservation of Indian major carps.
3. Taxonomic studies of Indian major carps.
4. To study artificial breeding in fishes.

Relevance and out comes:-

1. Organize field trip for students to get the knowledge on economic importance of fish.
2. To provide food security, economic security and empowerment to the society.
3. To provide benefits to the economic wealth of the country.
4. To provide good health of the peoples.

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. Mazhar Ahmad Farooqui
Principal
Maulana Azad College
Aurangabad



Excursion At Fish Seed Unit, Paithan



Study of Fish Morphology



Students observed Fish catching methods at Fish pond

Dr. Rafiq Zakaria Campus-I
 Maulana Azad College of Arts, Science & Commerce
 Academic Year 2019- - 2020
 Excursion Tour

Date- 07/02/2020

Place—Fish Seed Unit

Sr. No.	Name of the Students	Class	Roll No.	Contact No.	Sign
1	Khan Zahra Fatima	B.Sc III	207		Zahra
2	Baij Bushra Parveen	B.Sc II	213		Baij
3	Chishty Sayyeda Nabeela	B.Sc II	514		Nabeela
4	Nilchost Banu	B.Sc II ^y	526		Banu
5	Syeda Saleha Afroz	B.Sc II ^y	518		Saleha
6	Syeda Sandeep	B.Sc I ^y	515		Sandeep
7	Mehmush Shaikh	B.Sc I ^y	517		Mehmush
8	Shaikh Khudaiya	B.Sc III ^y	214		Khudaiya
9	Misba Khan	B.Sc II ^y	513		Misba
10	Humaira Shaikh	B.Sc II ^y	530		Humaira
11	KHAN UZ MA	B.Sc III ^y	215		Uzma
12	Asra Shamail Sayed	M.Sc I ^y	22		Asra
13	Ayesha Siddiqua	M.Sc Zoo	15		Ayesha
14	Ayesha humera	M.Sc Zoo	03		humera
15	Iqra Anjum	B.Sc Zoo	203		Iqra
16	Abdul salam Afzal	M.Sc Zoo	24	97655418885	Abdul
17	SHAIKH MU MUZZAM MUL	M.Sc. Zoo	1		Mu
18	Mohammed Alshagari	M.Sc. Zoo	14	8485033396	Alshagari
20	Ishrat's haikha Alimuddin	B.Sc II year	304	7350524464	Ishrat's



BSC III

21	Ghale Shradhulhu	902	Shradhulhu
22	Ashwini Pehewale	209	Ashwini
23	Avhad Sneha	524	Avhad
24	Amritu Khanat	522	Khanat
25	Khanat Paratiksha	512	Khanat
26	Mohd. Areeb	221	Areeb
27	Mohd. Sadiquee	220	Sadiquee
28	Sheikh Abkar	629	Abkar
29	Sheikh Rizwan	543	Rizwan
30	Sheikh Ammar	218	9325687674
31	Sheikh Sohail	544	Sohail
32	Sheikh Motel Sakib	529	Sakib
33	Sheeb Sheikh	202	Sheeb
34	Shaikh Aayaj	308	9895633352
35	Khan Ahetesham	510	8698852198
36	SYED URRAID	535	7304023575
37	SK Ihamul Haque	212	AKM Haque
38	SHAH RAMU HABIB	537	Shah Ramu
39	Sheeb Ahmed	516	9970539975
40	Abuzar Khan	539	899918205
41	Sayyed Shash	536	8379047449
42	Khan Aliya Yusuf	542	7382173154
43	Fadi F. D. Naim	10	9527775170
44	Iham Ahetesham	510	86988521
45			
46			



47				
48				
49				
50				

Dr. J. D. Shaikh
Zool. Dept

Dr. Tarannum Shaikh
Zool. Dept

Mr. Bhaifi Khale - 9.7.85
Lab. Ass't

Mr. Sagid Khan - 8.1.85

Mr. Asfar Z. Pathan - 10.1.85



Date: 02/01/2020

To,

The Principal

Maulana Azad College of Arts, Science & Commerce

Aurangabad

Subject: Permission for Excursion Tour to Fish Seed Unit, Jaikwadi dam Paithan.

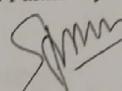
Respected Sir

With reference to above cited subject and as per curriculum of B.Sc. , Department of Zoology is going to organize an Excursion Tour to observe Birds and "Fish Seed Unit, at Paithan, in second week of January 2020.

Kindly permit for the same

Thanking you,

Yours Faithfully


Dr. J.D. Shaikh



*Permitted
Write details to
M.A.C. & I.A.T.C. office
J.D.S.*



Dr. Rafiq Zakaria Campus

Maulana Azad College of Arts, Science & Commerce

Post Box No. 27, Dr. Rafiq Zakaria Marg, Rauza Bagh, Aurangabad-431001 Maharashtra, (India)
Tel.: 0240-2381102, 2381668 | Web: <http://maca.ac.in> | Fax: 0240-2390422 | Email: macprincipal@gmail.com

MINORITY INSTITUTE

NAAC Re Accredited Grade 'A' UGC's Status: "COLLEGE WITH POTENTIAL FOR EXCELLENCE"

Ref. No. MAC: 12/2019-2020/2070

Date: / /20

Date :- 05-02-2020

To,
The Assistant Commissioner,
Fisheries Department,
Administrative Office,
Milk Development Office,
Jalna Road, Aurangabad.

Subject :-Permisson for excursion tour to Fish Seed Unit, Paithan on
07-02-2020.

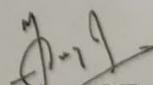
Sir,

With reference to the above mentioned subject as per B.Sc. curriculum we would like to visit Fish Seed Unit, Paithan, Dist. Aurangabad to show identification, taxonomy & induced breeding in Indian major corporation.

Therefore, I request you to permit us for the same.

Thanking you.

Yours faithfully,


(Dr. Mazahar Ahmad Farooqui)
Principal
Maulana Azad College
Aurangabad



Maulana Azad College of Arts, Science and Commerce,

Dr. Rafiq Zakaria Campus, Rauza Bagh, Aurangabad

Department of Zoology

B.Sc. III year

STUDENT'S PROJECT WORK

(Pond Ecosystem /Visit to Paithan (Fish Seed Unit))

Academic Year: 2019-20 (25-2-2020)

Sr. No.	Name of Student	Name of Projects
1)	Baig Bushra	Visit to Paithan
2)	Binmazi	Visit to Paithan
3)	Briyanka Olapke	Visit to Paithan
4)	Gihate Shraddha	Visit to Paithan
5)	Iqra Anjum	Visit to Paithan
6)	Khan Ameen	Visit to Paithan
7)	Khan Nagma	Visit to Paithan
8)	Khan Sarah	Visit to Paithan
9)	Khan Shadma	Visit to Paithan
10)	Khan Uzma Anjum	Visit to Paithan
11)	Khan Zehra Fatima	Visit to Paithan
12)	Mirza Simran	Visit to Paithan

13)	Pehorikar Ashwini	Visit to Paithan
14)	Saba Syed	Visit to Paithan
15)	Sayyed Shoeb	Visit to Paithan
16)	Shah Ramlu HABIB	Visit to Paithan
17)	Shah Irfan yunus	Visit to Paithan
18)	Sk heena kausar	Visit to Paithan
19)	Shaikh Humaira	Visit to Paithan
20)	Shaikh Khudaya	Visit to Paithan
21)	Shaikh Mizba	Visit to Paithan
22)	Shaikh Lamsha	Visit to Paithan
23)	Shaikh Sofiya	Visit to Paithan
24)	Shaikh Sana	Visit to Paithan
25)	Shaikh Shoeb musa	Visit to Paithan
26)	SK Inamul Haque	Visit to Paithan
27)	Syed Afza Jakeem	Visit to Paithan
28)	Syeda Humaira Arjum	Visit to Paithan
29)	Urusa Khan	Visit to Paithan
30)	Anjuta R.Kharat	Visit to Paithan

31)	Aerhad Sneha	Visit to Paithan
32)	Khan Aheteshan	Visit to Paithan
33)	Khan Alfiya Tozeen	Visit to Paithan
34)	Khan Ayesha Ajaz	Visit to Paithan
35)	Kharat Bratiksha.	Visit to Paithan
36)	Shaikh Maniya Naaz	Visit to Paithan
37)	Raisa Fatima	Visit to Paithan
38)	Gazi Samiin	Visit to Paithan
39)	Shaikh Aayaz Musa	Visit to Paithan
40)	Shaikh Ayesha Rafiq	Visit to Paithan
41)	Shaikh Bushra Begum	Visit to Paithan
42)	Shaikh Sakib.	Visit to Paithan
43)		
44)		
45)		

Signature and Stamp of HOD

Dr. J.D. Shaikh



Maulana Azad College of Arts, Science and Commerce,

Dr. Rafiq Zakaria Campus, Rauza Bagh, Aurangabad

Department of Zoology

B.Sc. SY

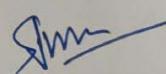
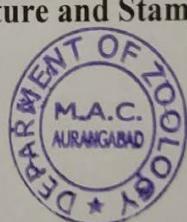
STUDENT'S PROJECT WORK (Visit to Zoological Park/ Museum)

Academic Year: 2019-20 [25-2-2020]

Sr. No.	Name of Student	Name of Projects
1)	Baig Uruba	Visit to Paithan
2)	chishty Sayyedai Nabil	Visit to Paithan
3)	Dandge Rupali	Visit to Paithan
4)	Farheenisa Mahol	Visit to Paithan
5)	Huma Parveen	Visit to Paithan
6)	Humaira Shaikh	Visit to Paithan
7)	Ishrat Shaikh	Visit to Paithan
8)	Jadhan Madhuri	Visit to Paithan
9)	Jalinsa Fatima	Visit to Paithan
10)	Khan Abazari	Visit to Paithan
11)	Khan Raiz	Visit to Paithan
12)	Khan Mariyam	Visit to Paithan
13)	Khan Saima	Visit to Paithan

14)	khom sumayyah	Visit to Paithan
15)	khom zimat	Visit to Paithan
16)	fatema nali	Visit to Paithan
17)	misba khom	Visit to Paithan
18)	Mahol Anam fatema	Visit to Paithan
19)	Naheed Fatema	Visit to Paithan
20)	Nikhat Bano	Visit to Paithan
21)	Patel Tanzeela	Visit to Paithan
22)	gathe Nillmei	Visit to Paithan
23)	shaikh Aadil	Visit to Paithan
24)	shaikh Abrar	Visit to Paithan
25)	shaikh Aga	Visit to Paithan
26)	shaikh Darakhshan Iram	Visit to Paithan
27)	shaikh Rizwan	Visit to Paithan
28)	shaikh Palman	Visit to Paithan
29)	shaikh Sajid	Visit to Paithan
30)	shelke Nithmani	Visit to Paithan
31)	syeda Suleha	Visit to Paithan

32)	ummaly Amara	Visit to Paithan
33)	umme Ammara	Visit to Paithan
34)	uzma gazal	Visit to Paithan
35)	Mohammed Aneeb	Visit to Paithan
36)		
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40)		


 Signature and Stamp of HOD
 DR. J. D. Shailch

 DEPARTMENT OF GEOGRAPHY * M.A.C. AURANGABAD

Department of Botany

Excursion to Gautala Wildlife Sanctuary

MAULANA AZAD COLLEGE OF ARTS, SCIENCE AND COMMERCE, AURANGABAD

Name of the Event / Activity: Fruit Research Centre, Himayat Bagh, Aurangabad

Date: 29th August 2019

Venue: - Fruit Research Centre, Himayat Bagh, Aurangabad

No. of Beneficiary: 58

Type of Beneficiary: Students and Teachers

Goals and Objectives: Visit to fruit research center and playhouse.

Highlights of the Program:

- All Students and staff members reported at 02:00 pm at Dr. Rafiq Zakaria Campus, (Mazaar Area) and departed to excursion at 02:15 pm.
- Reached to destination at around 02:30 pm.
- **Dr. Sadat Quazi** accompanying to the fields helped students to carry out various ecological experiments using quadrate method. **Prof. Nainwad of fruit research center** explained about the various projects carried out under Govt. Schemes to students.
- Students and staff took round of 19th Century Nizam Build Himayat bagh and enjoyed the vicinity of Nature.
- Departure to back to College started at 5:00 pm and reached destination at 05:30 pm.

Relevance and outcome:

Students were made aware about Grassland ecosystem and vegetation type, students also benefited from various fruit and flowering plants present in the Himayat Bagh .

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.

1st year

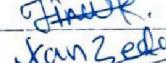
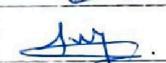
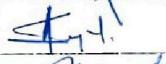
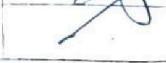
Dr. Rafiq Zakaria Campus

Maulana Azad College of Arts, Science and Commerce

girls Boys

Department of Botany

Excursion (HIMAYAT BAGH) Attendance 29th August 2019

Sr. No.	Name of the Student	Roll No.	Signature.
1	AMMAR SHAIKH	218	
2	Shaikh Shoeb	202	
3	Shaikh Sohail	—	
4	Anam fatema	504	
5	Uzma GRAZAL	503	
6	Zineet Khan	505	
7	Tanzeela Patel	507	
8	Huma Deshmukh	511	
9	Humaira Sheikh	530	
10	S.K. Sabri	228	
11	Agmerai Sayyad	219	
12	Namrata Lokhande	222	
13	Shaikh Afra	223	
14	Sumayya Pathan	231	
15	Shreeta Gowai	220	
16	Jyoti Shelke	225	
17	Syeda Ruha	224	
18	Bansod Akanksha	214	
19	Mirza Rida	201	
20	Shaikh Shifa Naseer	—	
21	Misba Khan	513	
22	Nikhat Bano	526	
23	Madhuri jadhav	533	
24	syed asiya Saidddeen	207	
25			

Faculty Accompanying:

1.

2.

3.

Boys'

Sr. No.	Name of the Student	Roll No.	Signature.
26 ✓	Pathan Sabir Khan	101	Sabir
27 ✓	Ahmed Sham Khan	510	Sham
28 ✓	Irfan Yunus Shabir	—	Irfan
29 ✓	Khan Ameer Yusuf	542	Ameer
30 ✓	SYED UBAID	535	Ubaid
31 ✓	SAYYED SHOEB	536	Sayyed
32 ✓	Shaikh Abdul Ahad	307	Abdul
33 ✓	SHAIKH ABDUL MOID	309	Abdul
34 ✓	Shaikh Majeed Sakib	529	Majeed
35 ✓	SHAH RAMIT	537	Shah
36 ✓	Shoeb Ahmed	516	Shoeb
37			
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Faculty Accompanying:

- 1.
- 2.
- 3.

Bsc IInd year
girls

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

Department of Botany

Excursion (HIMAYAT BAGH) Attendance 29th August 2019

Sr. No.	Name of the Student	Roll No.	Signature.
1	Khan Shireen Farz	218	Shireen
2	Shaikh Shagufta	531	Shagufta
3	Shaikh Ramsha	205	Ramsha
4	Shaikh Mizba	208	Mizba
5	Kharat Pratiksha	512	Kharat
6	Kharat Amruta	522	Amruta
7	Ayhad Sneha	524	Ayhad
8	Wadgaokar Apeksha	518	Apeksha
9	Shaikh Aayesha	519	Aayesha
10	Khan Aayesha	534	Khan
11	Khan Alifa	517	Alifa
12	Shaikh Jumaiya	539	Jumaiya
13	Siddiqui Amaghan Shignaf	503	Siddiqui
14	Shaikh Maniya Naaz	502	Maniya
15	Sameen Fatima	501	Sameen
16	Khan Zehera Fatima	207	Zehera
17	Shaikh Khudaija	214	Khudaija
18	Khan Uzma Anjum	215	Uzma
19	Qazi Samsoin	511	Qazi
20	Shaikh Bushra	530	Bushra
21	Shaikh Safiye	538	Safiye
22	Khan Nayma	543	Nayma
23	Khan Qutubul-Ain Noor Afza	504	Qutubul-Ain
24			
25			

Faculty Accompanying:

- 1.
- 2.
- 3.

Fruit Research Centre, Himayat Bagh, Aurangabad, 29th August 2019



Department of Chemistry

Study tour to Ullmann Laboratories

Date:-25/09/2019

platform :

Number of beneficiaries: 44

Extension: Departmental activity

Time:- 09:00 am to 6.00 pm Venue/ online

Type of activity: Extracurricular

Details of the Program:

Department of Maulana Azad College of Arts Science and Commerce, Aurangabad had organized one day tour to Ullmann Laboratories in which 44 students from under graduation second and third year get participated. The graduate students get knowledge about the techniques used for the analysis. Mr. Shaikh Salim, founder of Ullmann was the host there. Students were divided into five groups and they get the chance to visit and see all the instruments present I the laboratories. Students get the chance to see instruments such as gas chromatography (GC), high pressure liquid chromatography (HPLC), Rota-evaporator, High resolution ultra violet-visible spectrophotometer. Mr. Shaikh Salim was explain all the instrument very nicely and also share the experience and the life journey of him to the stundents. He said how few years back he thought to build a laboratory where he should bring these facilities and his hard work to buil the laboratory in such good manner what it is now. He also told about the future plane he have to improve or to take the laborotaroy to high level and he also wants to start the bicrobial analysis in his laboratotry he also show us the set up he make for microbial analysis. The Ullmann laboratories is located in very beautiful area of Waluj, from where mountain can be seen from three sides of building. Students were enjoyed the weather and the area where Ullmann laboratories located. The staff was had the high tea with founder of Ullmann laboratories where as the students enjoyed their lunch in open area of Ullmann laboratories. After this a small tour to Paithan damp were planned under the supervision of Dr. C.B Khillare head department of chemistry, Maulana Azad College of Arts Scince and Commerce, Aurangabad with all the staff of under graduation that is Dr. Prashant Netanker, Dr. Mohd Asif, Dr. Anees Ahmed, Dr. Syed Ummul Khair Asema and Dr. Samreen Farooqui were also present. Mr. Shaker, Mr. Sangit Bihari and Mr. Wasim were also there from non-teaching.



Visit to Central Institute of Plastic Engineering & Technology

60	Khan Afreen	B. Sc. III		
61	Shaikh Mohd. Zaid	B. Sc. I		
62	Firdous Shaikh			<i>Firdous</i>
63	Nolfer Dalvi			<i>Nolfer</i>
64	Shif Fatima			<i>Shif</i>
65	Bhakti Jadhav	B. Sc. III		<i>Bhakti Jadhav</i>
66	Siddiqui Tahzeeb	B. Sc. III	8793877718	<i>Tahzeeb</i>
67	Siddiqui Jaweria	B. Sc. III	7775983008	<i>Jaweria</i>
68	Sana Anjum	B. Sc. III		<i>Sana Anjum</i>
69	Tuba Anjum	B. Sc. III		<i>Tuba Anjum</i>
70	Nagma	B. Sc. III		<i>Nagma</i>
71	Rahat	B. Sc. III		<i>Rahat</i>
72	Aysha	B. Sc. III		<i>Aysha</i>
73	Shaikh Rahat	B. Sc. III		<i>Shaikh Rahat</i>
74	Sayyada Afsha	B. Sc. III		<i>Sayyada Afsha</i>
75	Tanzeela Firdous	B. Sc. III		<i>Tanzeela Firdous</i>
76	Namra Tazeen	B. Sc. III		<i>Namra Tazeen</i>
77	Nikhat Shyarmeen	B. Sc. III		<i>Nikhat Shyarmeen</i>
78	Mariya Fatema	B. Sc. III		<i>Mariya Fatema</i>
79	Nusrat Nahri	B. Sc. III		<i>Nusrat Nahri</i>
80	Salman Khan	B. Sc. III		<i>Salman Khan</i>
81	Shazeb Zaki	B. Sc. III		<i>Shazeb Zaki</i>
82	Aaquib Faraz	B. Sc. III		<i>Aaquib Faraz</i>
83	Abdul Rehman	B. Sc. III		<i>Abdul Rehman</i>
84	Shahnawaz Altamash	B. Sc. III		<i>Shahnawaz Altamash</i>
85	Aleem	B. Sc. III		<i>Aleem</i>
86	Siddiqui Adeeba Farheen	B. Sc. III	9960177783	<i>Adeeba Farheen</i>
87	Farooqui Sana Parven	B. Sc. III	8830272043	<i>Sana Parven</i>
88	Ehtesham Khan	B. Sc. III	9011130045	<i>Ehtesham Khan</i>
89	Humera Bano	B. Sc. III		<i>Humera Bano</i>
90	Sartajunnisa	B. Sc. III	9631902792	<i>Sartajunnisa</i>

Signature

Department of Microbiology

To

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

*Permit is
as per rules
23-02-2019*

Sub : Letter seeking permission for study tour to Research lab , MIT College , Aurangabad.

Request letter to be sent to the Sr. Scientist Incharge, Research lab, MIT College , Aurangabad.

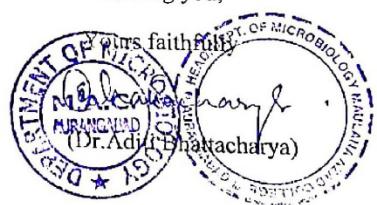
Respected Sir,

This is to request you to kindly permit us to visit the Research lab, MIT College ,Aurangabad on the 26th or 27th of Feb 2019 for 2 to 3 hours only, as per the schedule to be given by the Incharge after receiving the request note.

Ms.Mahejabin Sayeed will be accompanying the B.Sc II year and some advanced learners of B.Sc III yr , who have the study tour in their practical syllabus. I also request you to issue us a request letter addressed to the Sr.Scientist , Research lab , MIT College , Aurangabad.

Thanking you ,

Thanking you,



~~pollutants are now every where~~



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'

Ref. No. MAC: 1212018.19/1035

Date :- 23-02-2019

To,
Sr. Scientist,
Research Laboratory,
MIT College, Aurangabad.

**Subject:- Request for Educational visit to the Research Laboratory
(B.Sc.II, III year Students).**

Dear Sir/Madam,

This is to state that the students of the Department of Microbiology , Maulana Azad College of Arts, Science & Commerce are interested in visiting the Research lab as part of study tour in their syllabi on 26th or 27th February 2019 as per your convenience. Around 25 to 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 operations of different instruments used in research laboratories.
I thus request you to kindly permit the visit and oblige.

Thanking you,

Yours sincerely,

(Dr. Mohd. Razaullah Khan)
I/c. Principal



Received on 23/2/19
Rajesh
Thank you for visit

Dr.Rafiq Zakaria Campus

Maulana Azad College of Arts Science and Commerce, Aurangabad.

This is to inform the students of B.Sc.II year and Adv-Le B.Sc.III year that visit will be undertaken on 27/02/2019. The students will be taken to research labs, MIT College, Aurangabad. All the concerned students have to inform their parents that the tour will be from 11.30am after which we will return to College. You are required to go through the operating principles of instruments (for eg Beer-Lambert) 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 member will not be held responsible for any untoward incident on the road or in the premises, inspite of adequate precautions being taken.

Name of accompanying teacher: Ms. Mahejabin N. Sayyad.

Non-teaching staff: Ms. Surekha

List of B.Sc.II year students who have attended the study tour

Sr.no	Roll no.	Students Name	Sign
1	201	Shaikh Afsana Shaikh Shakil	
2	202	Dapke Priyanka Sahebrao	<i>(Signature)</i>
3	203	Ghate Shraddha Laxman	<i>(Signature)</i>
4	204	Shaikh Wajiha Akhtar Shaikh Zaheer	
5	205	Khan Shreen Feroz Khan	<i>(Signature)</i>
6	206	Shaikh Saba Begum Shaikh Saleem	
7	207	Shaikh Sayma Rafik	<i>(Signature)</i>
8	208	Shaikh Ramsha Mohd Hanif	<i>(Signature)</i>
9	209	Saba Saycd Anwar	
10	210	Syeda Humaira Arjum Syed Layaqali Saudagar	
11	211	Khan Zehra Fatima Abdul Sami	<i>(Signature)</i>
12	212	Shaikh Mizbah Mohd Gayas Shaikh	<i>(Signature)</i>
13	213	Ashvini Vilas Pcherker	<i>(Signature)</i>

14	214	Dhakne Pooja Anil	<i>Dhakne</i>
15	215	Samreen Khan Anwar	<i>J.W.</i>
16	216	Baig Bushra Parveen Mirza Rafat Baig	<i>W.P.</i>
17	217	Durfsa Naaz Shaikh Mukhtar	<i>N.M.</i>
18	218	Khan Uzma Anjum Samad Khan	<i>U.S.</i>
19	219	Shaikh Heena Kausar Ateeque Ahmed	<i>Heena</i>
20	220	Shaikh Shoeb Musa	<i>S.M.</i>
21	221	Khan Massera Zainab Khan Aqueel Ahmed	<i>Z.A.</i>
22	222	Shaikh Khudaija Shaikh Iqbal Ahmed	<i>K.I.A.</i>
23	223	Sk. Inamul Haque Sk. Ainul Haque	<i>I.H.</i>
24	224	Syeda Bushra Badar Khurshid Ahmed Siddiqui	<i>S.B.</i>
25	225	Bin Mazi Barka Saud	<i>B.M.</i>

List of B.Sc.III year students who have attended the study tour.

Sr. No	Roll No	Name of the Students	Sign
1	214	Baig Nasmeen	<i>Nasmeen</i>
2	213		
3			
4			
5			
6			



Complex 1 and 2, University of Sindh, Jamshoro

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

Forwarding letter

I am herewith communicating the name of Inamul Haque who is studying in the class B.Sc III year (Microbiology) in the academic session 2019-20 and is a bonafide student of Maulana Azad College of Arts, Science and Commerce, Aurangabad, for the Hands on training in Molecular biology at Government College , Aurangabad.

Place : -Aurangabad

Date :- 03.02.2020



SK Inamul Haque
Signature of the student

Subhitz
Receiver's signature

P CLASS

Lv Hague.

nocentri

arsed by

mag.

Separation of DNA based on Density.

PAGE 1
isopycnic separacentrifug

CsCl_2 based Density

gradient - (Isopycnic) Centrifug.

Biggest Example - & invented by

Messelson & Stahl's expt to

prove Semiconservative DNA replicat.

(Normally $^{\text{14}}\text{N}$)

E. coli cultured in ^{15}N cont. media

(1)

↓

Furines, Pyrimidines of E. coli
contain ^{15}N .

E. coli with ^{15}N + Medium. cont. ^{14}N .

↓

Cultured for several generations.

Controls:

^{14}N DNA

^{15}N DNA

centrifuged at
100,000 RPM for
about 10 hrs.

Light band.

Heavy band.

Gen 1 \rightarrow $^{15}\text{N} \times ^{14}\text{N}$
(hybrid).

cultured in
 ^{14}N medium.

hybrid
band.

Gen - 2 \rightarrow $^{15}\text{N} \times ^{14}\text{N}$

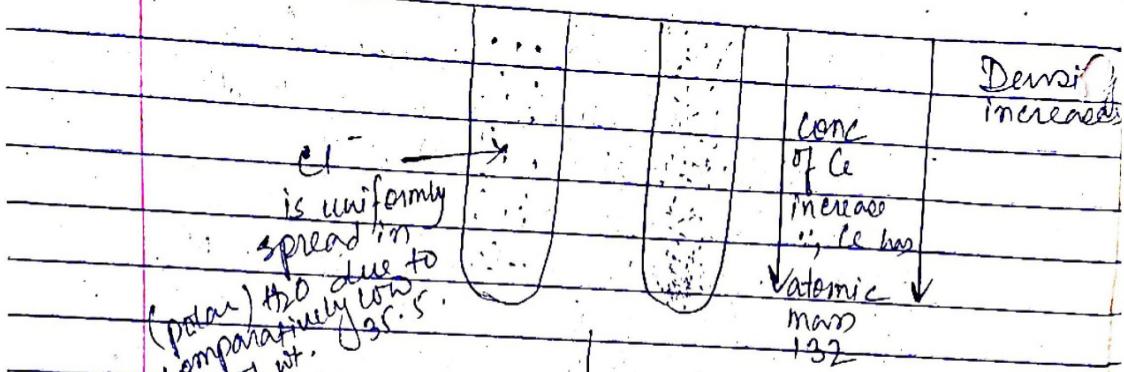
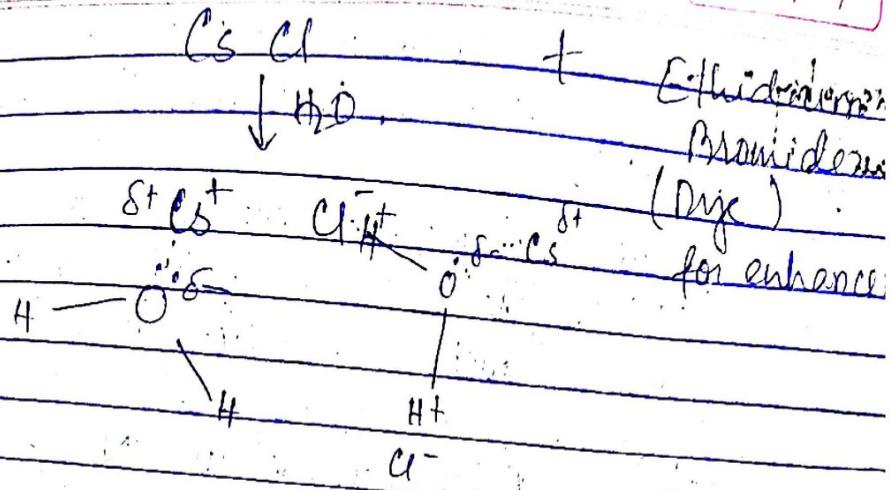
$^{14}\text{N} + ^{14}\text{N}$

light band hybrid band.

$[Cs]$ \downarrow ^{133}Cs $^{35.5}Cl$

22AJS

PAGE: 249
DATE: 10/3/19



\downarrow $\xrightarrow{\text{Circular RNA}}$ \downarrow $\xrightarrow{\text{linear DNA}}$

\downarrow $\xrightarrow{\text{High density}}$ \downarrow $\xrightarrow{\text{low density}}$

\downarrow $\xrightarrow{\text{heavy band}}$ \downarrow $\xrightarrow{\text{light band}}$

\downarrow $\xrightarrow{\text{moves towards}}$ \downarrow $\xrightarrow{\text{the same density}}$

1) Ghale Shraddha
2) Pehlkar Ashwini
3) Baig Bushra.
4) Khan Uzma
5) Shaikh Khudaiya
6) Khan Zeera Fatima
7) DHAKNE priya Anil
8) SK. Samiullah
9) SK. Henna Kaiser
10) Khan Shireen

Shraddha
Ashwini
Bushra.
Uzma
Khudaiya
Zeera Fatima
DHAKNE priya Anil
Samiullah
Henna Kaiser
Khan Shireen



Department of Political Science Visited High Court

28/11/2019.

Attendance Sheet.

Department of Political Science.

Visit to High Court.

Sr. No.	Name of the Student	Roll No.	Sign.
①	Shiaikh Mannan	07	<u>Mannan</u>
②	Shiaikh Sakib	66	<u>Sakib</u>
③	Shoaib Khan	11	<u>Shoaib</u>
④	Sayyed Abuzar	32	<u>Abuzar</u>
⑤	Shiaikh Sajid	02	<u>Sajid</u>
⑥	Nazish Baig	57	<u>Baig</u>
⑦	JAFRI MURTOZA	80	<u>Murtaza</u>
⑧	Abdul Arzeem	19	<u>Arzeem</u>
⑨	Syed Ali	20	<u>Ali</u>
⑩	Ansari Saad Malile	59	<u>Malile</u>
⑪	Shiaikh Zeeshan	85	<u>Zeeshan</u>
⑫	SHAIKH JAHAN-IRA	39	<u>Ira</u>
⑬	Shiaikh Sumaiyya	114	<u>Sumaiyya</u>
⑭	Bhumika Moga	81	<u>Moga</u>
⑮	Mirza Nisheen Tariqunnisa	61	<u>Tariqunnisa</u>
⑯	Sayyeda Tariqunnisa	06	<u>Tariqunnisa</u>
⑰	Mazhar Inamdar	14	<u>Inamdar</u>
⑱	Abul Hasan Mirza	62	<u>Abul Hasan</u>
⑲	Sadaf Khan	121	<u>Sadaf Khan</u>

Students Visit to High Court on 28/11/2019.



To

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

Permit
for visit
23-02-2019

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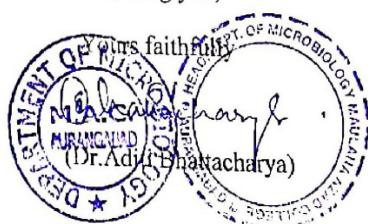
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Thanking you ,

Thanking you,



~~pollutants are now every day causing~~



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.: 0240-2391102 | Web: <http://maca.ac.in> | Fax: 0240-2390422 | Email: macprincipal@gmail.com

MINORITY INSTITUTE

NAAC Re Accredited Grade 'A'

Ref. No. MAC: 1212018.19/1035

Date :- 23-02-2019

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Research Laboratory,
MIT College, Aurangabad.

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Thanking you,

Yours sincerely,

(Dr. Mohd. Razaullah Khan)
I/c. Principal



Received on 23/2/19
Fahm
Thank you for visit

Dr.Rafiq Zakaria Campus

Maulana Azad College of Arts Science and Commerce, Aurangabad.

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Name of accompanying teacher: Ms. Mahejabin N. Sayyad.

Non-teaching staff: Ms. Surekha

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10	210	Syeda Humaira Arjum Syed Layaqali Saudagar	
11	211	Khan Zehra Fatima Abdul Sami	
12	212	Shaikh Mizbah Mohd Gayas Shaikh	
13	213	Ashvini Vilas Pcherker	

14	214	Dhakne Pooja Anil	Dhakne
15	215	Samreen Khan Anwar	Samreen
16	216	Baig Bushra Parveen Mirza Rafat Baig	Baig
17	217	Durfsa Naaz Shaikh Mukhtar	Naaz
18	218	Khan Uzma Anjum Samad Khan	Khan
19	219	Shaikh Heena Kauser Ateeque Ahmed	Heena
20	220	Shaikh Shoeb Musa	Shoeb
21	221	Khan Massera Zainab Khan Aqueel Ahmed	Khan
22	222	Shaikh Khudaija Shaikh Iqbal Ahmed	Khudaija
23	223	Sk. Inamul Haque Sk. Ainul Haque	Inamul Haque
24	224	Syeda Bushra Badar Khurshid Ahmed Siddiqui	Syeda
25	225	Bin Mazi Barka Saud	Barka

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Sr. No	Roll No	Name of the Students	Sign
1	214	Baig Nasmeen	Nasmeen
2	215		
3			
4			
5			
6			



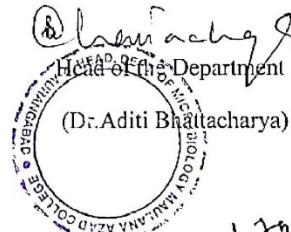
Dr. Rafiq Zakaria Campus
Maulana Azad College Arts, Science and Commerce
Aurangabad

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Place : -Aurangabad

Date :- 03.02.2020



SK Inamul Haque
Signature of the student

Subhita
Received signature

P CLASS

Lv Hague.

nocentri

arsed by

mag.

Separation of DNA based on Density.

↓
isopycnic separacentrifugⁿ.

CsCl_2 based Density

gradient - (Isopycnic) Centrifugⁿ.

Biggest Example - & invented by

Messelson & Stahl's expt to

prove Semiconservative DNA replicatⁿ.

(Normally $^{\text{14}}\text{N}$)

E. coli cultured in ^{15}N cont. media

(1)

↓

Furines, Pyrimidines of E. coli
contain ^{15}N .

E. coli with ^{15}N + Medium. cont. ^{14}N .

↓

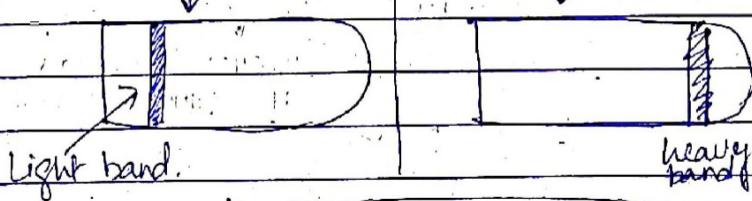
Cultured for several generations.

Controls:

^{14}N DNA

^{15}N DNA

centrifuged at
100,000 RPM for
about 10 hrs.



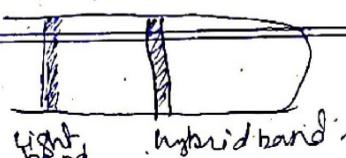
Gen 1 \rightarrow $^{15}\text{N} \times ^{14}\text{N}$
(hybrid)

cultured in
 ^{14}N medium.

hybrid
band.

Gen - 2 \rightarrow $^{15}\text{N} \times ^{14}\text{N}$

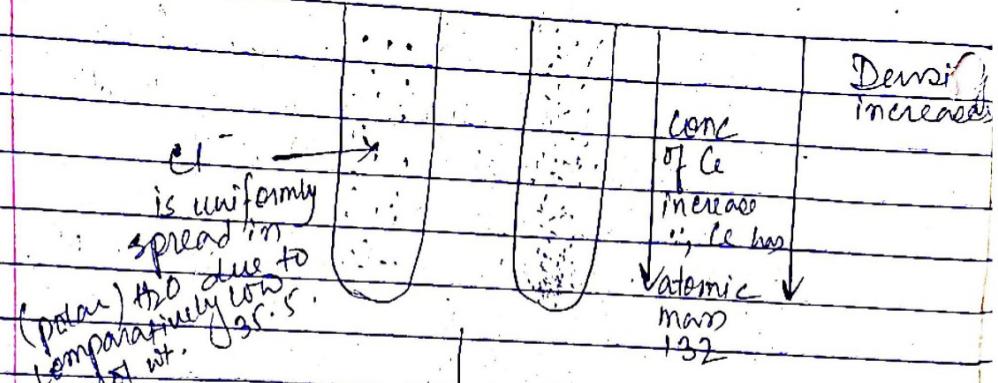
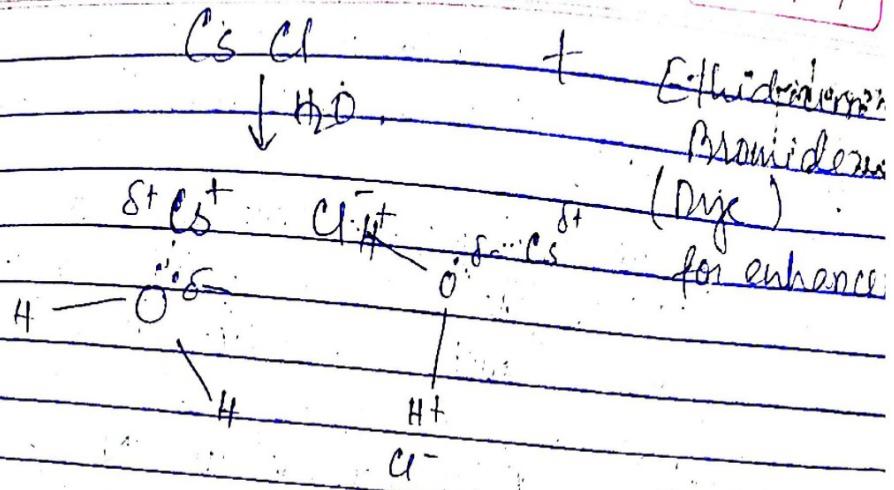
$^{14}\text{N} + ^{14}\text{N}$



$[Cs]$ \downarrow ^{133}Cs $^{35.5}Cl$

22/10/2023

PAGE: 20
DATE: 20/10/2023



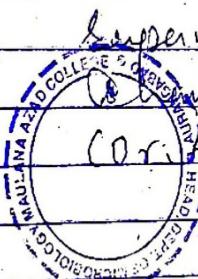
$\xrightarrow{\text{Circular RNA, High density}}$ $\xrightarrow{\text{Place DNA in agar}}$ $\xrightarrow{\text{Linear DNA, low density}}$

$\xrightarrow{\text{heavy band}}$ $\xrightarrow{\text{light band}}$

$\xrightarrow{\text{moves towards the same density}}$

1) Ghale Shraddha
2) Pehlkar Ashwini
3) Baig Bushra.
4) Khan Uzma
5) Shaikh Khudaiya
6) Khan Zeera Fatima
7) DHAKNE priya Anil
8) SK. Sammi H
9) SK. Henna Kaiser
10) Khan Shireen

Shraddha
Ashwini
Bushra.
Uzma
Khudaiya
Zeera Fatima
DHAKNE priya Anil
Sammi H
Henna Kaiser
Khan Shireen



Dr. Rafiq Zakaria Campus
 Maulana Azad College Arts, Science and Commerce, Aurangabad
 B Sc II Year Class activity : "Biosafety levels" Flip Class
 "Recalcitrant chemicals" flip class
 Group discussion in presence of a subject expert (Ms.Zarina Shaikh)

08/08/2019 .

Sr.No.	Roll no.	Name	Sign
1	201	Bajir Reedhi Fatima Mirza Mehdi Ali Baig	Rida
2	202	Shaijl. Shobh Shaikh Ajeeb	Shobh
3	203	Syed. Bulsum Fatema Syed Azheruddin	Syed
4	204	Sakina Abdul Malik	Sakina
5	205	Pathan Somiya Afian Nasir Khan	Afian
6	206	Ishrat Fatema Shaikh Amjad	Ishrat
7	207	Syed Asiya Syed Saifuddin	Asiya
8	208	Jaliwala Fatema Mohamed	Fatema
9	209	Qudari Junun Ahmed Magfoor Ahmed	Junun
10	210	Shaikh Aaysha Naser	Aaysha
11	211	Shelke Vanishnavi Ambadas	Vanishnavi
12	212	Khan Naseera Bano Mohd Iftatulla Khan	Naseera

13	213	Aliya Fatima Mirza Ilyas Baig	<i>Aliya Fatima</i>
14	214	Bansod Akansha Apparao	<i>Akansha</i>
15	215	Bhalerao komal Sheknath	<i>Komal</i>
16	216	Shaikh Farheen Shaikh Nazeer	<i>Farheen</i>
17	217	Master Fatema Vali Bhai	<i>Fatema</i>
18	218	Shaikh Ammar Md Aarif	<i>Aarif</i>
19	219	Sayyad Aameria Mukhtar	<i>Aameria</i>
20	220	Mohammad Sadique Shaikh Saleem Bunker	
21	221	Mohammad Areeb Mohd Akbar	
22	222	Lokhande Namrata Ramesh	<i>Namrata</i>
23	223	Shaikh Asma Shaikh Sajeed	<i>Asma</i>
24	224	Syeda Zuha Mir Asgar Ali	<i>Zuha</i>
25	225	Shelke Jyoti Balasaheb	<i>Jyoti B.</i>
26	226	Gawai Shweta Nandkumar	<i>Shweta</i>
27	227	Parwaiz Nameera Mariyam Shafeel Khan	<i>Parwaiz</i>
28	228	Shaikh Saba Rasheed	<i>Saba</i>
29	229	Syed Altaf Jabbar	

30	230	Sathe Nilima Vinayak	<i>Nilima</i>
31	231	Sumaiyya Arif Pathan	<i>Sumaiyya</i>
32	232	Fatema Begum Shaikh Ismail	

Dated : 08-08-2019



Subject expert

(Ms. Zarina Binti Idris)

Recalcitrant Compounds

- The compounds which are new synthetic compounds that are slowly biodegradable or non-biodegradable are known as recalcitrant compounds.
- They range from simple halogenated hydrocarbons to complex polymers.
- They include dyes, pesticides, explosives, heavy metals, polyalcohols, furan derivatives and phenolic substances.
- The highly toxic and recalcitrant compounds, dibenzo-p-dioxin and dibenzofuran are formed unintentionally in the effluent of pulp and paper mill.
- The untreated effluents from paper and ~~pulp~~ pulp mills discharged into water bodies damages the water quality.
- The undiluted effluents are toxic to aquatic organisms and exhibit a strong mutagenic effect.
- The biological colour removal process is particularly attractive since in addition to colour and COD it also reduces BOD and low molecular weight chlorolignins.
- Biodegradation of hazardous harmful substances in the environment embody significant prospective methods, when complex and ecologically unsound pollutants are decomposed into simple.

Chlorophenols are persistent and recalcitrant toxicants that are widely spread in the environment.



substances by the action of micro-organ

- The principle of biodegradation technologies is an optimization of nutrient ratios (To support the growth of selected microorganisms able to degrade the target contaminant)
- Treatment of pulp and paper mill effluent has not proved successful due to lack of suitable microorganisms, loss of genetic potentiality in adverse environmental conditions, formation of recalcitrant compounds and poor optimization at large scale.

Xenobiotics.

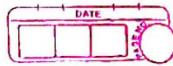
They include drugs, industrial chemicals, naturally occurring poisons and environmental pollutants.

- Some microorganisms have ability of breaking down the xenobiotics compounds partially or entirely
- But some xenobiotics are recalcitrant in nature because of various reasons.

Xeno means foreign.

Biotics means life.

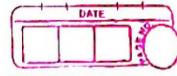
- Synthetic chemicals foreign to a particular ecological system and has a biological activity can be called



- Xenobiotics can exert adverse effects on human health by disrupting or interacting with multiple cellular communication pathways that direct growth, development and normal physiological function.
- These compounds are highly toxic in nature and can affect survival of lower as well as higher eukaryotes.
- They are persistent and remain in the environment for many years leading to bioaccumulation or biomagnification.
- Certain microbes on continuous exposure to xenobiotics develop the ability to degrade the same as a result of mutations.

DDT - Dichlorodiphenyltrichloroethane.

- DDT accumulates in the body fat.
- DDT is an insecticide that was used on plants. It was synthesized in 1874. But its insecticidal use was not known till 1939.
- It was widely used around the world till the 1970's where increasing reports of the danger it posed to the environment were finally accepted by the EPA.



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Nameera Mariyam.

- chlorophenol are remain long Period.

- All Xenobiotic are Recalcitrant.

- Recalcitrant Compound are not degrade easily

ex. Xenobiotics, Pesticides, insecticide.

- Recalcitrant increase with trophic level called as biomagnification.

- Xenobiotic Substance are foreign substance

- Example of Xenobiotic is DDT and it is very harmful and not degradable by microorganism.

- DDT was synthesised in 1874

- They are Carcinogenic Compound.

- DDT affect on Nervous system and Liver

- Xenobiotics - Common example of Xenobiotics

are ① Nylon

② diazin

③ Polyethylene

④ DDT

⑤ Dyes

- continuous exposure of Microorganism to Xenobiotics so they adapt themselves to degrade Xenobiotics

- microbes tolerate the compounds but it is not necessary that they degrade Xenobiotics

- chemical treatment to recalcitrant then it is called ozonation.

Aamra Sayyed.

- cyclic biphenyls, Aliphatic and Aromatic Compound are example of recalcitrant

Saba Shaikh

- Xenobiotic - greek term

Xeno - foreign biotic - life

- example of xenobiotics are Sulphonic acid, halogenated Compound, Triazine Compound

Nameera Khan

- Nitroaromatic Compound

- Polycyclic aromatic hydrocarbon

- Salicylic acid are example Xenobiotics

Nilima Sathe

- Triazine and azodyes are xenobiotics

Zuhra Fatima

- plasmoproteins Represent a storage site for Xenobiotic

- Salicilate and Cardicnemylate are example of Xenobiotic

Ammar Shaikh

- Pseudomonas, flavobacterium and rhodococcus which degrades the Pesticide

Maam.

genotoxicity - Xenobiotic Compound it shows Adverse effect on living organism

- they cause Aberrant DNA changes called Mutation.

- birth defects and carcinogenic effect, Nervous disorder and liver damage this is due to Xenobiotics.

- Tri Nitro toluene is recalcitrant.

- Microbes use enzyme to degrade Recalcitrant. Example - 1) Peroxidase

2) Catalyse

3)

- Reactive oxygen species will produce after Partial degradation take place of Recalcitrant and it is more harmful than previous.

BSL.

• Bio safety Level

their are 4-bio safety levels

BSL - 1 found in lab

- it doesn't contain Pathogenic bacteria

- the scope of contamination is less than other.

BSL - 2

- Moderate risk and disease having varying severity

BSL-3

- high content of pathogenic bacteria
- there are risk of aerosol transmission
- serious or potentially lethal disease
- T.B

BSL-4

- maximum containment
- High risk
- example: Ebola, Zika virus

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

"Life and works of Dr Hargobind Khurana "-9th Jan 2020.

Beneficiaries: - B.Sc 1st Year

Microbiology Dept.

Date: - 09/01/2020

Sr. no.	Name of the students	Class	Sign
1	Scifullah Sayyed	BSC 'I' year	<i>Scifullah</i>
2	Ira	BSC - 1 st	<i>Ira</i>
3	pujeet Shaikh	B.S.C 1 st	<i>pujeet</i>
4	Kavita P. Balande	B.S.C. F.Y.	<i>Kavita Balande</i>
5	Rajshree Gadekar	BSC F.Y	<i>Rajshree Gadekar</i>
6	Huzifa Sarifa	B.S.C. F.Y	<i>Huzifa</i>
7	Ain - e - Zehra	B.S.C I year.	<i>Ain - e - Zehra</i>
8	Aditi Rane	B.S.C. I st	<i>Aditi</i>
9	Monali Tale	B.S.C. I st year	<i>Monali</i>
10	Shaikh Sadeqa Anjum	B.S.C 1 st year	<i>Sadeqa</i>
12	Mehwish Maayam	BSC I st yr	<i>Mehwish</i>
13	Shaikh Sadeq	BSC 1 st yrs	<i>Sadeq</i>
14	Khan Afra	BSC 1 st yr	<i>Afra</i>
15	Tabassum Begum Ed. Shabbir	BSC I st year	<i>Tabassum</i>
17	Tishraf Tomha	BSC I st year	<i>Tishraf</i>
18	Naushad Azaam	BSC I st yrs	<i>Naushad</i>
19	SK. Firdawsiya Anam	B.S.C 1 st yr	<i>Anam</i>
20			
21			
22			
23			
24			
25			

Brief discussion on :- [3:30 to 4 p.m.]

1. Interpretation of genetic code to protein Synthesis
 (.. this interpretation of genetic code to protein Synthesis
 - Nobel prize in 1968 with Dr Nirenberg. {Physiology / Med})

- punctuation marks, non sense code
 - poly. RNA synthesis, synthetic genes
 - study on Rhodopsin etc



Ch. Library
 09/01/2020
 Dr. Hargobind Khurana

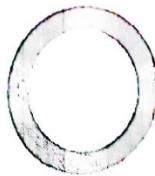
World Diabetes Day

November 14th 2019

AWARENESS CAMPAIGN FOR DIABETES EDUCATION

AN INITIATIVE OF STAFF AND STUDENTS OF
DEPT. OF MICROBIOLOGY,
MAULANA AZAD COLLEGE, AURANGABAD.

Show the world that you care!



The World Diabetes Day is a day for "Diabetes Education and Prevention". It is imperative that we educate ourselves about the causes, symptoms and complications of Diabetes and control the additions every year to an already existing large Diabetic population.

World Diabetes Day, November 14, was initiated by the International Diabetes Federation (IDF) in 1991. It has been observed ever since and is a truly global event! In December 2006, the United Nations recognized World Diabetes Day as an official UN Day.

DISTURBING FACTS.

WHO asks India to wake up to 'diabetic tsunami'.

There were an estimated 40 million persons with diabetes in India in 2007 and this number is predicted to rise to almost 70 million people by 2025.

The real burden of the disease is however due to its associated complications which lead to increased morbidity and mortality.

WHO estimates that mortality from diabetes, heart disease and stroke costs about \$210 billion in India in the year 2005. Much of the heart disease and stroke in these estimates was linked to diabetes.

There are several studies from various parts of India which reveal a rising trend in the prevalence of type II diabetes in the urban areas.

What really is Diabetes?

Diabetes is the inability to transfer sugars in blood to the sugar-storage sites of the body namely the muscles and liver.

Sugars are found mainly in cereals, rice, bread, pastas, potatoes, milk products, fruits, fruit juices and sweets. These are broken down to the most basic sugar, i.e. Glucose.

Glucose normally moves into the blood through a web of blood vessels that are connected to the intestines.

When the movement of glucose into the blood stream raises its average level, it triggers the secretion of a hormone called insulin from the pancreas.

Pancreas in our body have Beta cells that produce Insulin.

This Insulin is secreted in blood which causes the excess glucose to be stored in muscles and liver cells as glycogen, which may be used later on as an energy source as and when required.

Diabetes is thus a disorder of the carbohydrates metabolism in which the sugars in our body are not utilized to produce essential energy due to lack of pancreatic hormone "Insulin".

Diabetic patients either have impaired insulin production or have faulty functioning of insulin.

This is just like the case of ship wrecked, marooned sea borne sailor's cry "water, water every where but no water to drink". Plenty of glucose energy is available but cannot be utilized.

Because of non availability of glucose, the brain searches out and uses "Fats" as alternative source of energy. This leads to disturbances in acid balance level, accumulation of ketones in the blood and eventually to convulsions preceding diabetic coma.

High sugar levels, left untreated, can gradually cause damage to vital tissues, such as blood vessels, the nervous system, kidneys, heart and arteries.

This can cause debilitating strokes, heart disease, loss of sensation or pain in the feet and hands, leading to leg amputations, kidney failure and blindness.

Like Blood pressure, Diabetes is a silent killer. Diabetes affects every major organ in the body.

causes Diabetes Mellitus.

Genetic factors such as persons having strong family history of diabetes especially in first degree relatives.

Obesity

Lack of exercises

Sedentary life style

Sudden severe emotional stress or accidents.

High blood pressure

High blood cholesterol levels

Physical stress

Chcoholism

Malnutrition

Polycystic ovarian syndrome

Acute infections such as Jaundice, Myocardial infarction, Pancreatitis, some viral diseases.

Drugs such as Thiazides, Diuretics and Cortico steroids

Ingestion of certain substances such as organophosphorous compounds that release minute amounts of Streptozotocin that damages the pancreatic Beta cells.

SYMPTOMS OF DIABETES

Excessive thirst

Chronic extreme hunger

Frequent urination

Reduced body strength.

Numbness of limbs (indicating poor circulation)

General weakness and fatigue

Loss of weight

Blurry vision

Dry, itchy skin

~~Stress, tension and high blood pressure~~

~~Ability to concentrate~~

~~Irritability or mood swings~~

~~Slow healing wounds, or sores and bruises~~

Stages of Diabetes

1. The pre-diabetic stage:- This is the stage when one has not yet been afflicted with Diabetes, but likely to get it due to predispositions discussed above.
2. The latent stage:- In this stage, diabetes present in the body can not be diagnosed with ordinary tests. Special tests are needed.
3. Chemical stage:- (Sub-clinical stage) The normal symptoms are absent but tests indicate increased blood sugar.
4. Clinical stage:- Patient suffering from general symptoms, seeks medical help.
5. Stage of complications:- When all symptoms of Diabetes manifest with complications.

Types of Diabetes

Type 1 Diabetes Mellitus or IDDM

‘Once a Diabetic always a Diabetic’ is true for type I Diabetics.

Type 1 diabetes (Juvenile-onset type) is not strictly a hereditary disorder and is not passed on from parent to off spring.

Type I Diabetes is when the body can produce little or no insulin, due to immune and genetic (inherited) defects of the pancreas.

It is commonly called Juvenile diabetes and Insulin dependent diabetes (IDDM).

Type 1 diabetics have to depend on insulin use for the rest of their lives, in order to survive and making good lifestyle choices is integral to diabetes control.

Alternative medicines may not be of much help.

Maintaining an active lifestyle and making favorable food choices by raising the fiber intake can all help bring Diabetes under control and reduce the amount of total daily insulin dose.

If these patients are not treated with Insulin, they may have Diabetic ketoacidosis, a medical emergency.

Brittle diabetics are a subgroup of Type I where patients have frequent and rapid swings of blood sugar levels between hyperglycemia (a condition where there is too much glucose in the blood) and hypoglycemia.

Type 2 or NIDDM

(5)

an outcome of affluent culture and has almost become an epidemic.

On Insulin dependent Diabetes Mellitus or Maturity-onset Diabetes is the stealthiest type of diabetes and symptoms can be mild and therefore overlooked for years.

The patients have low levels of Insulin; can manage with medicines, controlled food intake and lifestyle change.

Type 2 Diabetics produce insulin from their pancreas, but due to lifestyle factors such as obesity and inactivity the insulin is not able to move the extra sugar from the blood to the muscle and liver cells, resulting in the buildup of sugar levels in the blood. This defect is referred to technically as insulin resistance.

Type-2 diabetes (Adult onset type) is genetically transmitted through a process called recessive trait. Maturity onset diabetes of the young (MODY) Viz. Type 2 occurring below 25 years is hereditary and transmitted by an autosomal dominant gene through three generations

Type 3:- Gestational Diabetes

This occurs during pregnancy and may reduce or disappear once the delivery is over. This type can be controlled with medicine and diet, as it would affect foetus. Type 3 diabetes can be treated and cured

The main predisposing factors for gestational diabetes are family history of diabetes, obesity and sedentary lifestyles. It is crucial that women at risk be identified, since high blood sugar causes foetal harm.

Complications of diabetes:-

Diabetes causes several life threatening complications.

Diabetic Retinopathy:- Diabetes mellitus may cause damage to the blood vessels of Retina, leading to bleeding, scarring and finally, blindness. It can also cause cataracts and Glaucoma.

Diabetic Nephropathy:- Normally urine does not contain Glucose because kidneys have special filters that filter out the glucose. In diabetic patients, the high glucose levels in the blood over strain the filters with the result that glucose, unfiltered, enters the Urine. The fluctuations in the blood sugar cause severe urinary tract infections, affects kidneys resulting in kidney failure.

Diabetic Neuropathy:- Chronic diabetes may damage to nerve tissues, causing weakness, and numbness.

Foot and skin ailments:- Fungal, bacterial infections are common in diabetic. The patients are more prone to foot infections and injury, leading to amputations.

Diabetes causes gangrene, skin infections, mouth ulcers, foot infections, Acanthosis nigricans (brown or black hyperpigmentation of the skin) and diabetic blisters.

Diabetic Keto acidosis:- This happens when the diabetic body, failing to get insulin to break down glucose, uses fat for sustenance and energy. This use of fat leads to forming of ketones, causing acidity in the blood and eventually to convulsions and diabetic coma.

Cardio – vascular and micro vascular diseases : High blood sugar levels alters cholesterol level and can cause blocks in the major arteries of legs. Type 1 diabetes causes thickening of small blood vessels. (Micro Angiopathy).

(6)

diabetes is the most significant cause of **adult blindness** in the non-elderly.

Modern societies face the increasing burden of age-related diseases, in particular **Alzheimer's disease (AD)** and type 2 diabetes (T2D). There is some evidence that the causes underlying both diseases are linked.

Several pathological features have been identified as common denominators of AD and T2D including impaired glucose/energy metabolism, altered insulin-signaling pathways, mitochondrial dysfunction, oxidative stress, and inflammation.

Dr.Rafiq Zakaria Campus
Maulana Azad College Arts, Science and Commerce
Aurangabad
World Diabetes
14th November 2019

Awareness Campaign for Diabetes Education

**An Initiative of Staff and Students of Dept. of Microbiology, Maulana Azad College,
Aurangabad**

Sr.No.	Roll no.	Name	Sign
1	219	Sk. Heena Kaiser	<i>Heena Kaiser</i>
2	213	Baig Buohra	<i>Baig Buohra</i>
3	209	Pehelkce Ashwini	<i>Pehelkce Ashwini</i>
4	212	SK Inamul Haque	<i>SK Inamul Haque</i>
5	211	Shaikh Shoeb Musa	<i>Shaikh Shoeb Musa</i>
6	207	Khan Zahra Fatima	<i>Khan Zahra Fatima</i>
7	214	Shaikha Khudaija	<i>Shaikha Khudaija</i>
8	215	Khan Uzmei Anjum	<i>Uzmei Anjum</i>
9	239	Shaikh Sadaf	<i>Sadaf</i>
10	244	Mehwish Maryam	<i>Mehwish Maryam</i>
11	238	Khan Afra	<i>Afra</i>
12	264	Kaveh Balande	<i>Kaveh Balande</i>
13	245	Qureshi Saba	<i>Saba</i>
14	250	Shaikh Samiya	<i>Samiya</i>
15	227	Ubale Monali	<i>Monali</i>
16	218	Rame Adili	<i>Adili</i>
17	225	Bushra Firdous	<i>Bushra Firdous</i>



Dr. Rafiq Zakaria

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

Scientist Gallery famous Microbiologist and their Sphere of Works

Date: - 18/9/2019

Sr.No	Roll no.	Name	Signature
1	201	Nida Iram Mohammad Nasir	Nida
2	202	Khan Aziz Ul Raheman Niyamatullah	
3	203	Pathan Sahib Khan Khaiil Khan	Sahib
4	204	Khan Aqsa Masira Walid Mohammad	
5	205	Admission cancel	
6	206	Naqvi Syed Ain Zehra Syed Shabab Hussain	
7	207	Saad Ahmed Sayyad Ahmed	
8	208	Sayyad Aaobul Fakhar	
9	209	Shaikh Tabish Shaikh Farhad	
10	210	Syeda Nazneen Syed Rasheed	
11	211	Shaikh Jawairiya Anam Shaikh Qsyum	
12	212	Umme Asra Mehfooz Khan	
13	213	Payal Anil Kantale	Payal
14	214	Motazim Saad Ayyub Khan	Saad
15	215	Madhiha Sanreen Meer Arshad Ali	
16	216	Shaikh Mahek Fatima Mohd Abdul Aziz	Mahek
17	217	Sadeef Naaz Mohammad Zaheer	
18	218	Rane Aditi Sanjay	
19	219	Khan Faheem Md Aman Khan	
20	220	Khan Naheed Ashraf Khan	
21	221	Salice Nanz Moid Abdul Afroz	
22	222	Khan Abrar Lekman	
23	223	Shaikh Mujeeb kamal	
24	224	Tehoora Faqiqi Majazuddin	
25	225	Hingora Bushra Firdousis Mohd Shakir	
26	226	Shaikh Shaker Gani	
27	227	Ubale Monali Kailas	Monali
28	228	Sayyad Zareen Abeer Ali	
29	229	Datarksha Mohd Yobia	
30	230	Sabassum Begum Sayyad Sharib	

Sr.No	Roll no.	Name	Signature
31	231	Saad Ahmed Hashmi Aziz Ahmed Hashmi	
32	232	Shaikh Sadequa Anjum Shaikh Saleem	
33	233	Sayyada Mascom Fatema Mir Ali Mustafa	
34	234	Khan Waqui Ausaf Mir Khan	Waqui
35	235	Sayed Abdullah Iqtedar Ahmad	
36	236	Ishrat Jahan Shaikh Nazem	
37	237	Huzaifa Saniya Abdul Hamid Shaikh	
38	238	Khan Alifiya Anam Saifullah Khan	
39	239	Shaikh Sadaf Fatema Mubeen	Sadaf
40	241	Al Jilani Habeeb Isra Habeeb Ali	Isra
41	243	Radiya Fatema Mohammed Abdul Nayeem	
42	244	Mehvish Maryam Mohammed	Mehvish
43	245	Qureshi Saba Mohammed Zakirya	Saba
44	247	Khan Farheen Saleem	
45	248	Afif Aqsa Saieha NZ Asir Afif	
46	249	Shaikh Uzma Azmeen Abdul Samad	Uzma
47	250	Shaikh Samiya Jabeen Kaleem	
48	251	Shaikh Arbaz Shaikh Kaleem	Arbaz
49	252	Khan Saniya	
50	253	Syeda Juwairyra Anam Mir Gazanfar Ali	
51	254	Ayesha Firdous Mohd Lateef	
52	255	Sayyed Saifullah Khawil	
53	256	Shaikh Nikhat Fatema Shaikh Abdul Wahab	
54	257	Sayyed Shifa Naaz Mujeeb	
55	258	Mohammed Sufiyan Mohammed Ashfaque	
56	259	Shaikh Arshiya Anjum Shaikh Zaheer	
57	260	Yadav Monu Mewalai	Monu
58	262	Shaikh Saleha Sk Abdul Subhan	
59	263	Anam Ulfat Mohd Shafi	
60	264	Balande Kaveri Sanjay	Balande
61	265	Gadekar Rajshree Santosh	Rajshree

Compiled and displayed - Dr. Aditi Bhattacharya
 Poster presented by B.Sc. Engg. - Bushra Firdous
 on Nobel laureates in Microbiology.



Dr. Aditi Bhattacharya

Dr.Rafiq Zakaria Campus
 Maulana Azad College of Arts, Science and Commerce
 National Science day
 28.02.2019

Theme : Science for people ,people for science

Enter the , organism involved , causative agent, disease caused or importance of the organisms as required.

Sr. no.	Name of the students	Class	Roll no.	Sign
01.	Baj Buetra Parveen	B.Sc II	216	lidy
02.	Syeda Humaira Ayum	B.Sc II	210	humira
03.	S.K. Saba	B.Sc I	251	S.K.
04.	Sathe Nilima Vinayak	B.Sc I	254	Sathe
05.	Phuke Shubhangi ottam	B.Sc I	209	phuke
06.	Siddiqui Sham Hamidullah	B.Sc I	234	Sham
07.	Syeda Zuha	B.Sc I yr	235	Zuha
08.	Jyoti Shelke	B.Sc I yr	236	Jyoti
09.	Shreeta N. Gaozi	B.Sc F.Y	287	Shreeta
10.	ALIYA FATIMA	B.Sc F.Y	214	Aliya
11.	Komal Bhalerao	B.Sc F.Y	215	Komal
12.	Vafshnavi Shelke	B.Sc F.Y	211	Vafsh
13.	Shaikh Sana	B.Sc F.Y	250	Sana
14.	Tehrat Fatema	B.Sc F.Y	204	Tehrat
15.	Somiya Afzal	B.Sc F.Y	203	Somiya
16.	Shaikh Faheem	B.Sc Ist	218	Faheem
17.	Fatima Master	B.Sc F.Y	219	Fatima
18.	Shaikh Abma	B.Sc F.Y	233	Abma
19.	NEHA KARIM BAIJI	B.Sc I year	244	Neha
20.	SYEDA Lubna	B.Sc I year	246	Lubna
21.	Ansari Modina Iffat	B.Sc F.Y	240	Modina
22.	Shalikh Shaeb musa	B.Sc F.Y	220	Shalikh
23.	SK Noman Haque	B.Sc F.Y	223	Noman
24.	Quadrat Jumani	B.Sc F.Y	208	Quadrat
25.	Mohd - Asseeb	B.Sc F.Y	227	Asseeb
26.	Faisal Khabab	B.Sc F.Y	243	Faisal
27.	SHAIKH NOMAN	B.Sc F.Y	247	Shaiikh
28.	Mohammad Sadique	B.Sc F.Y	220	Sadique

29-	Ammar Shaikh.	BSc I st	221	✓
30.	Mohammad Saqib	BSc I st	223	Adict
31	Namrata Lokhande	BSc I st	228	Muslim
32	Namrata Mariyam	B.Sc 2year	242	Malay
33.	Aamra Sayyad	BSC.T.year	225	A-1-1.
34	Pooja Hajare	BSc. I year	205	Buye
35	Shaikh Aaysha	BSc -4y	210	Malay
36	Syed Asif	BSC -I 5yr	206	Sayy
37	Syedola Khilasom	BSc I year	201	Malay
38	Fatema Begum	BSc I Year	230	Fatema
39	Khan Uzma	BSC II year	218	Uzma
40	Shaikh Khedaya	B.Sc I year	222	Kh
41	Khan Zehera Fatima	B.Sc II year	211	Zehera

Project Report

Department of History

(2019-20)

1.3.2 – Field Projects / Internships undertaken during the year

	Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
1	B.A. Main History projects for students Total four students	Main History subject for Paper no. 12 +16 combined with 100 marks in sixth semester exam	04 students submitted the project work for their sixth semester University exam on 14 March 2020
			1. Shaikh Asma Anwar Hafiz:
			2. Shaikh Kaniz Fatma
			3. Shaikh Sajid Jamir
			4. Shaikh Sana Tajajub


Signature of the HOD (History)

Dr. Shaikh Musak Rajjak
Assistant Professor & Head
Department of History
Majlis Azad College of Arts, Science & Commerce
P.O. Box: 431001, (Maharashtra) IND.



Dr. Rafiq Zakaria Campus

Maulana Azad College of Arts, Science & Commerce

Post Box No. 27, Dr. Rafiq Zakaria Marg, Baner Dighi, Aurangabad-431001 Maharashtra (India)
Tel: 0240-2381102, 2381148 | Web: <http://maacar.org.in> | Fax: 0240-2381111 | Email: maacprincipal@gmail.com

MINORITY INSTITUTE

NAAC Re Accredited Grade 'A' UGC's Status: "COLLEGE WITH POTENTIAL FOR EXCELLENCE"

Ref. No. MAC: 12/2019-2020/2446

Date: 13-03-2020

To,

Prof. Wani Prakash Reshmaji,
Associate Professor-in-History,
Lokseva Arts & Science College,
Garkehda Parisar, Aurangabad.

Sub: Appointment of External Examiner.

Sir,

I am pleased to appoint you as an External Examiner for Project Examination of B.A. VI Semester in the subject of History to be held on 14th March 2020 at 12:00 noon at Department of History.

Kindly convey your consent to the Head of the Department at your earliest for the same.

Thanking you,



Yours faithfully,

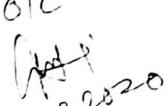

(Dr. Mazahar Ahmad Farooqui)

Principal
Maulana Azad College

Aurangabad

Copy to:

01. Controller of Examination Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
02. Internal Examiner Dr. Shaikh Musak Rajjak.

01C

14.03.2020
Prof. Wani P.R.
Prof. Wani P.R.



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

Post Box No. 27, Dr. Rafiq Zakaria Marg, Rauza Bagh, Aurangabad-431001 Maharashtra, (India)
Tel: 0240-2381102, 2381668 | Web: <http://maca.ac.in> | Fax: 0240-2390422 | Email: macprincipal@gmail.com

MINORITY INSTITUTE

NAAC Re Accredited Grade 'A' UGC's Status: "COLLEGE WITH POTENTIAL FOR EXCELLENCE"

Ref. No. MAC: 12 /2019 -2020 / 2475

Date :- 14-03-2020

To,
The Principal,
Lokseva Arts & Science College,
Garkehdha Parisar, Aurangabad.

Subject: - Relieving Letter.

Sir,

Prof. Wani Prakash Reshmaji, Associate Professor-in-History of your College has worked as an external examiner in the subject of History in B.A. VI Semester March/April 2020 examinations on 14th March 2020. He has been relieved on 14th March 2020 in afternoon.

Thanking you,



Yours faithfully,

(Dr. Mazahar Ahmad Farooqui)
Principal
Principal
Maulana Azad College
Aurangabad

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



Date: 13-03-2020

NOTICE

All the Regular Students of B.A. VI Semester (Main History) are hereby informed that their project University examinations will be held on 14th March 2020 12:00 noon at department of History. All should take note of it and act accordingly.




13/03/2020

Dr. Shaikh Musak Rajjak
Assistant Professor & Head
Department of History
Maulana Azad College of Arts, Science & Commerce
Rauza Baugh, Aurangabad-431001, (Maharashtra) IND




(Dr. Mazahar Ahmad Farooqui)
Principal


Principal
Maulana Azad College
Aurangabad

Maulana Azad College of Arts, Science & Commerce,
Aurangabad 431001

CERTIFICATE



Class: B.A.Third Year

Semester VI

Academic Year: 2019-20

Date: 14-03-2020

This is certified that the project work entered in this Journal / Project Report / Notebook is the work of

Shaikh Asma Anwar Hafez of B.A.III Year VI Semester (History Main),
Seat No. **NBF602228**, has satisfactorily completed the required research work
for Project in this college for Paper No.12 & 16 in this college.

Project Title: **Pitalkhora Caves**


Head of the Department

Dr.Shaikh Musak Rajjak
Assistant Professor & Head
Department of History
Maulana Azad College of Arts, Science & Commerce
Rosa Bagh, Aurangabad-431001. (Maharashtra) INDIA


**External
Examiner**

Prof. P. R. Wani
Asst. Prof., Dept. of History
Lokseva Art's & Science College,
Aurangabad-431005


**Internal Examiner
(Teacher Guide)**

History Project Based on (Paper XII & XVI)
HIS - 15-13

(14th March 2020 (Saturday))

SR. NO.	NAME OF STUDENT	TOPIC OF PROJECT	Signature
1.	NBF 602006 2016015200608216 PRN Patra FRANKLIN	ABSENCE	ABSENT
2.	NBF 602278 2016015200608344 PRN SHAIKH ASMA ANWAR HAFIZ	PITALKHORA CAVES	✓ 12 th
3.	NBF 602249 2016015200646522 PRN SHAIKH RANI AHMEDA	The Buddhist caves at Aurangabad. Transformations in Art & Religion	✓ 12 th
4.	NBF 602274 20160152004586958 PRN SHAIKH SAID SAMIR	Chhatrapati Rajashri Shahi Maharaj	✓ 12 th
5.	NBF 602288 2017015200486254 PRN SHAIKH SANA JASAWI BAWED	Stone Age culture of maharashtra	✓ 12 th
6.	NBF 602386 2016015200241916 PRN SIDDEQUE MEHAL NUZZAFAR	ABSENT	ABSENT



14.03.2020
Prof. Wani P.F.
P.S.F.

Shah
14/03/2020

Dr. Shaikh Musak Rajjak
Assistant Professor & Head
Department of History
Maulana Azad College of Arts, Science & Commerce
Dara Bagh, Aurangabad-431001 (Maharashtra)

Maulana Azad College of Arts, Science & Commerce,
Aurangabad 431001

CERTIFICATE



Class: B.A.Third Year

Semester VI

Academic Year: 2019-20

Date: 14-03-2020

This is certified that the project work entered in this Journal / Project Report / Notebook is the work of

Shaikh Kaniz Fatema of B.A.III Year VI Semester (**History Main**), Seat No. **NBF602249**, has satisfactorily completed the required research work for Project in this college for Paper No.12 & 16 in this college.

Project Title: *The Buddhist Caves at Aurangabad*


Head of the Department

Dr.Shaikh Musak Rajjak
Assistant Professor & Head
Department of History
Maulana Azad College of Arts, Science & Commerce
Rena Bazaar, Aurangabad 431001 (Maharashtra) INDIA


**External
Examiner**

Prof. P. R. Wani
Asst. Prof., Dept. of History
Lokseva Arts & Science College,
Aurangabad-431005


**Internal Examiner
(Teacher Guide)**

**Maulana Azad College of Arts, Science & Commerce,
Aurangabad 431001**

CERTIFICATE

Class: B.A.Third Year

Semester VI

Academic Year: 2019-20

Date: 14-03-2020



This is certified that the project work entered in this Journal / Project Report / Notebook is the work of

Shaikh Sana Tajajub Javed of B.A.III Year VI Semester (**History Main**).

Seat No. **NBF602288**, has satisfactorily completed the required research work for Project in this college for Paper No.12 & 16 in this college.

Project Title: ***Stone Age Culture Of Maharashtra***

Head of the Department

Dr. Shaikh Musak Rajjak
Assistant Professor & Head
Department of History
Maulana Azad College of Arts, Science & Commerce
Roza Bagh, Aurangabad-431001. (Maharashtra) INDIA

**External
Examiner**

Prof. P. R. Wani
Asst. Prof., Dept. of History
Lokseva Art's & Science College,
Aurangabad-431005

**Internal Examiner
(Teacher Guide)**

**Maulana Azad College of Arts, Science & Commerce,
Aurangabad 431001**

CERTIFICATE

Class: B.A.Third Year

Semester VI

Academic Year: 2019-20

Date: 14-03-2020



This is certified that the project work entered in this Journal / Project Report / Notebook is the work of

Shaikh Sajid Jamir of B.A.III Year VI Semester (**History Main**), Seat No. **NBF602274**, has satisfactorily completed the required research work for Project in this college for Paper No.12 & 16 in this college.

Project Title: ***Chatrapati Rajarshi Shahu Maharaj***

Head of the Department

Dr.Shaikh Muzak Rajjak
Asst. Prof. & Head
Department of History
Maulana Azad College of Arts, Science & Commerce
Fata Darwaza, Achangabad 431001, (Maharashtra) (M.A.C.)

**External
Examiner**

Prof. P. R. Wani
Asst. Prof. Dept. of History
Lokmane Shinde College of Arts & Science College,
Aurangabad 431006

**Internal Examiner
(Teacher Guide)**

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

EXPERIENTIAL LEARNING DETAILS

Department Of Microbiology

Academic Year:- 2019-20

Sr. No	Class	No. of Experiments	Practical papers	No. of Students
1	B.Sc I year	23	Paper III & VI	23
2	B.Sc II year	48	Paper IX & XIII Paper X & XIV	31
3	B.Sc III year	43	Paper XVII & XXI Paper XVIII & XXII	20

