

**MAEER MIT PUNE'S MIMER MEDICAL COLLEGE AND Dr. BSTR HOSPITAL,
TALEGAON DABHADE**

**ACTIVITIES OF UG, PG STUDENTS IN LABORATORY, ANIMAL HOUSE
AND HERBAL GARDEN
2021-2022**

❖ Laboratory activities

- **Phase 1 (Anatomy, Physiology, Biochemistry) - Block timetable, department-wise list of activities, department timetable, geo-tagged photos of laboratory activities.**
- **Phase 2 – (Pathology, Microbiology, Pharmacology, FMT) Block timetable, department-wise list of activities, department timetable, geo-tagged photos of laboratory activities.**
- **Laboratory activities in Dept. of Community Medicine- Timetable, geotagged photos**
- **Activities in Skill Laboratory- Focus**
- **Activities in Central Research Laboratory**

❖ Activities in Animal House

❖ Activities in In-house Herbal and Toxicology Garden

**MAER MIT PUNE'S MIMER MEDICAL COLLEGE AND Dr. BSTR HOSPITAL,
TALEGAON DABHADE**

**ACTIVITIES OF UG, PG STUDENTS IN LABORATORY, ANIMAL HOUSE
AND HERBAL GARDEN
2021-2022**


Laboratory activities


Phase 1- Block timetable


MIMER Medical College, Talegaon
Department of Physiology
1st MBBS 2021-2022 Batch
BLOCK TIME TABLE

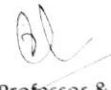
Day/ Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.00-9.00am	Physiology	Anatomy	Physiology	Anatomy	Biochemistry 3 rd Community Medicine	1 st Community Medicine 3 rd Biochemistry 5 th AETCOM
9.00-10.00am	Anatomy				Physiology	
10.00-11.00am	Anatomy	Physiology	Biochemistry	Biochemistry ,	Anatomy	Community Medicine
11.00- 1.00pm	Practicals/ Demo (A/B/C Batch)	Practicals/ Demo (A/B/C Batch)	Practicals/ Demo (A/B/C Batch)	Practicals/ Demo (A/B/C Batch)	Practicals/ Demo (A/B/C Batch)	
1.00-2.00pm	Lunch					
2.00-3.00pm	Physiology	Anatomy	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection 2 nd & 4 th	1 st Anatomy Dissection 3 rd Physiology 5 th integrated teaching / Activity
3.00-4.00pm			1 st , 3 rd 5 th 2-5pm Sports & ECA			
4.00-5.00pm	--	--	--	--	--	

• 5th Saturday integrated teaching


Professor & Head,
Dept. of Anatomy
Dept. of Anatomy
MIMER Medical College
Talegaon Dabhaide


Professor & Head,
Dept. of Physiology
Prof. & Head
Dept. of Physiology
MIMER Medical College,


Professor & Head,
Dept. of Biochemistry
DEPT. OF BIOCHEMISTRY
MIMER MEDICAL COLLEGE
TALEGAON DABHADE


Professor & Head,
Dept. of Comm. Medi.
Professor & Head
Dept. of Community Medicine
MIMER Medical College
Talegaon Dabhaide

05/01/2022

DEPARTMENT OF ANATOMY

UG laboratory activities

Every year I MBBS students get exposure to Histology / Microanatomy laboratory & Dissection

Detailed activities-

Histology Lab-

1. Microscopic anatomy of organs & structures.
2. Briefing is done before each practical session using Digital Microscope. This aids visualization of the slides under light microscope in better way. The sessions are conducted as small group teaching, so the queries are addressed well.
3. Study material is displayed in histology laboratory and notice boards.

Aids Provided-

1. Microanatomy Slides
2. Microscopes
3. Charts
4. Diagrams

Histology practical of General Histology & Systemic Histology

HISTOLOGY LABORATORY ACTIVITIES



HISTOLOGY LABORATORY- PROJECTION MICROSCOPE ACTIVITY



DEPT. OF PHYSIOLOGY- UG Laboratory activities

1. Hematology Lab : -

In the Hematology lab, I MBBS students are introduced to various haematological investigations. Here students are trained to perform investigations like estimation of Hemoglobin, Blood cell counts, Bleeding time, & Clotting time, blood grouping etc.

2. Human Experiment Lab:

Students are taught to perform various human experiments and investigations like ECG, Spirometry etc. this will orient the students towards these experiments which they have to do and interpret in the future.

3. Clinical Lab:


We have a clinical lab where students are taught to do various clinical examinations which include examination of arterial pulse, BP and systemic examination.

4. Amphibian Lab:

Here the amphibian experiment used to be performed earlier but as the amphibian, experiments are banned now the amphibian experiments are taught by means of computerised modules.

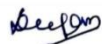
TIME TABLE Dept. Of Physiology -1st MBBS -2021-22 – Practicals

Date	Batch	Topic	Teacher
14/03/2022 Monday	B	Amphibian experiment : Properties of Skeletal Muscle –I	Mrs. Madhura Bedekar
15/03/2022 Tuesday	C	Amphibian experiment : Properties of Skeletal Muscle –I	Mrs. Madhura Bedekar
16/03/2022 Wednesday	A	Amphibian experiment : Properties of Skeletal Muscle –I	Mrs. Madhura Bedekar
17/03/2022 Thursday	B	Estimation of Red Blood count	Dr. Vidya Ohatker
18/03/2022 Friday	C	Estimation of Red Blood count	Dr. Vidya Ohatker
21/03/2022 Monday	A	Estimation of Red Blood count	Dr. Vidya Ohatker
22/03/2022 Tuesday	B	Amphibian experiment : Properties of Skeletal Muscle –II	Mrs. Madhura Bedekar
23/03/2022 Wednesday	C	Amphibian experiment : Properties of Skeletal Muscle –II	Mrs. Madhura Bedekar
24/03/2022 Thursday	A	Amphibian experiment : Properties of Skeletal Muscle –II	Mrs. Madhura Bedekar
25/03/2022 Friday	B	Estimation Leucocyte Count (TLC)	Dr. Vidya Ohatker
28/03/2022 Monday	C	Estimation Leucocyte Count (TLC)	Dr. Vidya Ohatker
29/03/2022 Tuesday	A	Estimation Leucocyte Count (TLC)	Dr. Vidya Ohatker
30/03/2022 Wednesday	B	Hematology : Revision Blood collection, Anti Cougalants , Estimation of HB & RBC	Dr. Kiranmai V
31/03/2022 Thursday	C	Hematology : Revision B lood collection, Anti Cougalants , Estimation of HB & RBC	Dr. Kiranmai V
01/04/2022 Friday	A	Hematology : Revision B lood collection, Anti Cougalants , Estimation of HB & RBC	Dr.Kiranmai


 Prof. & Head
 Dept. Of Physiology
 MIMER Medical College,
 Talegaon Dabhade 411 004

TIME TABLE - Dept. Of Physiology (1st MBBS -2021-22) Practicals

Date	Bat	Time		Topic	Teacher
07/04/2022 Thursday	B	11.00 am to 1.00pm	PY 3.18.5	Amphibian experiments : Cardiac Muscle I	Dr. Rupali Baburdikar
08/04/2022 Friday	C	11.00 am to 1.00pm	PY 3.18.5	Amphibian experiments : Cardiac Muscle I	Dr. Rupali Baburdikar
12/04/2022 Tuesday	A	2.00pm to 4.00pm	PY 3.18.5	Amphibian experiments : Cardiac Muscle I	Dr. Rupali Baburdikar
12/04/2022 Tuesday	B	11.00 am to 1.00pm	PY 2.11.7	Differential Leucocyte Count (DLC)- I	Dr. Vidya Ohatker
13/04/2022 Wednesday	C	11.00 am to 1.00pm	PY 2.11.7	Differential Leucocyte Count (DLC)-I	Dr. Vidya Ohatker
14/04/2022 Thursday	A	11.00 am to 1.00pm	PY 2.11.7	Differential Leucocyte Count (DLC)-I	Dr. Vidya Ohatker
15/04/2022 Friday	B	2.00pm to 4.00pm	PY 2.11.7	Differential Leucocyte Count (DLC)- II	Dr. Vidya Ohatker
18/04/2022 Monday	C	11.00 am to 1.00pm	PY 2.11.7	Differential Leucocyte Count (DLC)-II	Dr. Vidya Ohatker
19/04/2022 Tuesday	A	11.00 am to 1.00pm	PY 2.11.7	Differential Leucocyte Count (DLC)-II	Dr. Vidya Ohatker
20/04/2022 Wednesday	B	11.00 am to 1.00pm	PY 2.11.9	Estimation of Blood Group	Dr. Vidya Ohatker
21/04/2022 Thursday	C	11.00 am to 1.00pm	PY 2.11.9	Estimation of Blood Group	Dr. Vidya Ohatker
22/04/2022 Friday	A	11.00am to 1.00pm	PY 2.11.9	Estimation of Blood Group	Dr. Vidya Ohatker
25/04/2022 Monday	B	11.00 am to 1.00pm	PY 3.18.5	Amphibian experiments : Cardiac Muscle II	Dr. Rupali Baburdikar
26/04/2022 Tuesday	C	11.00 am to 1.00pm	PY 3.18.5	Amphibian experiments : Cardiac Muscle II	Dr. Rupali Baburdikar
27/04/2022 Wednesday	A	11.00 am to 1.00pm	PY 3.18.5	Amphibian experiments : Cardiac Muscle I	Dr. Rupali Baburdikar
28/04/2022 Thursday	B	11.00 am to 1.00pm	PY 2.11.1	0 Estimation of Bleeding Time & Clotting Time	Dr. Kiranmai V
29/04/2022 Friday	C	11.00 am to 1.00pm	PY 2.11.1	0 Estimation of Bleeding Time & Clotting Time	Dr. Kiranmai V
02/05/2022 Monday	A	11.00 am to 1.00pm	PY 2.11.1	0 Estimation of Bleeding Time & Clotting Time	Dr. Kiranmai v


Prof. & Head
 Dept. Of Physiology
 MIMER Medical College,
 Talegaon Dabhada 411 007

Activities in Physiology laboratory



DEPT. OF BIOCHEMISTRY

Activities in the laboratory

UG students exposed to learning resource in laboratories

- 1) Exposure to laboratory equipment & glassware
- 2) Collection & storage of different biological fluids
- 3) Exposure to biomedical waste & quality control in labs
- 4) Qualitative experiments (Carbohydrates & proteins)
- 5) Quantitative experiments- Blood sugar, LFT, RFT, Enzymes, Lipid profile
- 6) Identification of abnormal constituents in urine
- 7) Urine report
- 8) Exposure to various instruments CCL


BIOCHEMISTRY LABORATORY ACTIVITY TIMETABLE

MIMER Medical College, Talegaon (D)
DEPARTMENT OF BIOCHEMISTRY
1ST MBBS (2021-2022)

Practical/ SDL/ SGT/ Tutorial/ LD Programme – April 2022

Time: 11am to 1pm

DATE	BATCH	DAY	Progm	TOPIC	TEACHER
04/04/22	C	Mon	Practical	Test on Chemistry of Proteins & Hemoglobin	Ms. Trimbake
05/04/22	A	Tue	Practical		
06/04/22	B	Wed	Practical		
07/04/22	C	Thur	SDL	Properties of Mono and Disaccharide BI 3.1	Mrs. Chaudhari
08/04/22	A	Fri	SDL		
11/04/22	B	Mon	SDL		
12/04/22	C	Tue	DOAP	Normal urine BI 11.3 & 11.4	Dr. Sayyed
13/04/22	A	Wed	DOAP		
14/04/22	B	Thur	DOAP		
15/04/22	C	Fri	DOAP	Abnormal Urine BI 11.4, 11.20	Ms. Trimbake
18/04/22	A	Mon	DOAP		
19/04/22	B	Tue	DOAP		
20/04/22	C	Wed	ECE	Urine report BI 11.4, 11.20	Dr. Chaudhari
21/04/22	A	Thur	ECE		
22/04/22	B	Fri	ECE		
25/04/22	C	Mon	SDL	Electrophoresis BI 11.16, 11.19	Dr. Sayyed
26/04/22	A	Tue	SDL		
27/04/22	B	Wed	SDL		
28/04/22	C	Thur	Practical	Estimation of Total Proteins & Albumin BI 11.8, 11.21 & 11.17	Ms. Trimbake
29/04/22	A	Fri	Practical		
02/05/22	B	Mon	Practical		




Prof. & Head
Dept. of Biochemistry
PROFESSOR & HEAD
DEPT. OF BIOCHEMISTRY
MIMER MEDICAL COLLEGE
TALEGAON : BARRHABE

**MAEER MIT Pune's
MIMER Medical College & Dr. BSTR Hospital, Talegaon (D)
DEPARTMENT OF BIOCHEMISTRY
1ST MBBS (2021-2022)**

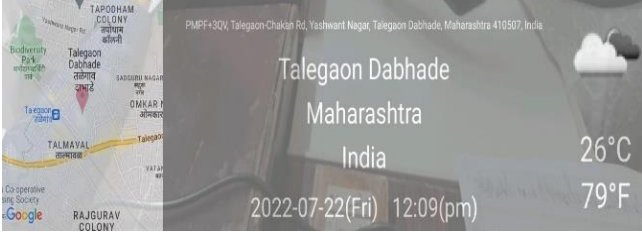
Practical/ SDL/ SGT/ Tutorial/ LD Programme – July 2022

Time: 11am to 1pm

DATE	BATCH	DAY	Progm	TOPIC	TEACHER
04/07/22	C	Mon	DOAP	Estimation of Blood Urea BI 11.21	Dr. Sayyed
05/07/22	A	Tue	DOAP		
06/07/22	B	Wed	DOAP		
07/07/22	C	Thu	ECE	Hemoglobin & Hormone BI 5.2, 6.14	Mrs. Chaudhari
08/07/22	A	Fri	ECE		
11/07/22	B	Mon	ECE		
12/07/22	C	Tue	DOAP	Estimation of Glucose BI 3.10, 11.21	Ms. Trimbake
13/07/22	A	Wed	DOAP		
14/07/22	B	Thu	DOAP		
15/07/22	C	Fri	DOAP	Estimation of Serum & Urine creatinine – BI 11.21	Ms. Trimbake
18/07/22	A	Mon	DOAP		
19/07/22	B	Tue	DOAP		
20/07/22	C	Wed	ECE	Diabetes mellitus – BI 11.17	Mrs. Chaudhari
21/07/22	A	Thu	ECE		
22/07/22	B	Fri	ECE		
25/07/22	C	Mon	SGT	Glucose Tolerance Test (GTT) BI 3.10	Ms. Trimbake
26/07/22	A	Tue	SGT		
27/07/22	B	Wed	SGT		
28/07/22	C	Thu	SGT	Case studies of water & fat soluble vitamins BI 6.5	Dr. Sayyed
29/07/22	A	Fri	SGT		
01/08/22	B	Mon	SGT		


**Prof. & Head
Dept. of Biochemistry
Prof. & Head
Dept. of Biochemistry
MIMER Medical College
Talegaon Dabhade**

Biochemistry Laboratory Activities



DEPARTMENT OF PATHOLOGY

Activities of UG students in laboratory

1. Phlebotomy training- Basic knowledge of phlebotomy procedure, vacutainers, pre-analytical factors, biomedical waste, safe procedures
2. Haematology exercises: haemogram estimation by cell counter, preparation, staining and interpretation of peripheral smear
3. Body fluid analysis
4. Urine examination – routine and microscopy
4. Histopathology exercises

Aug 2021 II/II MBBS Batch List of Theory Lectures - August 2022

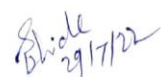
Sr.No.	Date	Time	Topic	Teacher
1	02.08.2022	8-9am	Normal hemostasis, ITP and haemophilia's	Dr. Harsha Jaykar
2	04.08.2022	9-10am	Clotting disorders	Dr. Harsha Jaykar
3	06.08.2022	8-9am	DIC	Dr. Harsha Jaykar
4	09.08.2022	8-9am	SDL- Autoimmune disorders (PA 9.5) & SLE	Dr. Priyanka Murgod
5	11.08.2022	9-10am	Genetic abnormalities (PA 11.1, 11.2)	Dr. Vikas Pathak
1st Internal Assessment Exam from 16.08.2022 to 02.09.2022				

Aug 2021 III/II MBBS Batch

PRACTICALS - August 2022

Days of Practicals (Tues, Wed & Thurs) & Days of SGL (Alternate Monday & Friday)

Sr. No.	Date	Time	Topic	Teacher
Practicals				
1	2, 3 & 4.8.22	1.30 to 4.30 pm	Vit K deficiency PA 21.5.1	Dr. Sayli, Dr. Sarangi, Dr. Suraj
2	9, 10 & 11.8.22	1.30 to 4.30 pm	Revision - Slides & Specimens	Dr. Swapnil, Dr. Mangala, Dr. Debopriya, Dr. Sayli, Dr. Sarangi, Dr. Suraj
1st Internal Assessment Exam from 16.08.2022 to 02.09.2022				


 PROFESSOR AND HOD PATHOLOGY
 MIMER'S MEDICAL COLLEGE
 TALEGAON, DABHADE-KUWADI

PATHOLOGY LABORATORY ACTIVITY- HISTOPATHOLOGY



PATHOLOGY LABORATORY ACTIVITY- GROSS SPECIMENS



DEPARTMENT OF MICROBIOLOGY

Laboratory activities of UG students

UG and PG students are introduced to different sections of Microbiology laboratory (Bacteriology, Serology, Parasitology, Mycology, Mycobacteriology, Virology, Immunology)

General Microbiology:

Microscopy –

Morphology of Bacteria:

Staining methods– Gram staining and Z–N staining, Special stains

Sterilization:

Instruments used for sterilization / disinfection of commonly used articles in hospital and laboratory

Commonly used chemical disinfectants in hospital ☐ Visit to CSSD

Biomedical Waste (BMW) management

Universal safety precautions (USPs)

Identification and Lab diagnosis of Bacterial infections:

SOPs for specimen collection and transport

Methods used for isolation of bacteria in pure culture

Types of Culture media and their uses

Commonly used biochemical tests for identification of bacteria

Different methods of AST

Serological tests (Ag- Ab reactions) and their applications

Molecular diagnosis

Systemic Bacteriology:

Parasitology:

Stool examination (saline mount & Iodine mount) for ova and cysts of t intestinal parasites

PBS for malarial parasites, Microfilariae, trypanosomes and Leishmania

Identification of adult worms of Ascaris, hookworm, tapeworm, Pinworm,

Thread worm

Identification of vectors transmitting parasites

Mycology:

SDA with growth of different fungal isolates

KOH mount for demonstration of fungal hyphae

LCB stained slides for fungal morphology

Slide culture technique for in-situ arrangement of fungal spores

Virology:

Methods of demonstration and cultivation of viruses

Serological tests (ELISA, rapid tests for detection of Ag and Ab)

Timetable

MAEER MIT PUNE'S
MIMER MEDICAL COLLEGE, BSTR HOSPITAL
DEPARTMENT OF MICROBIOLOGY
PROGRAM SPECIFIC UG ACTIVITIES IN LABORATORY
April 2022- August 2022 (CBME Batch 2021)

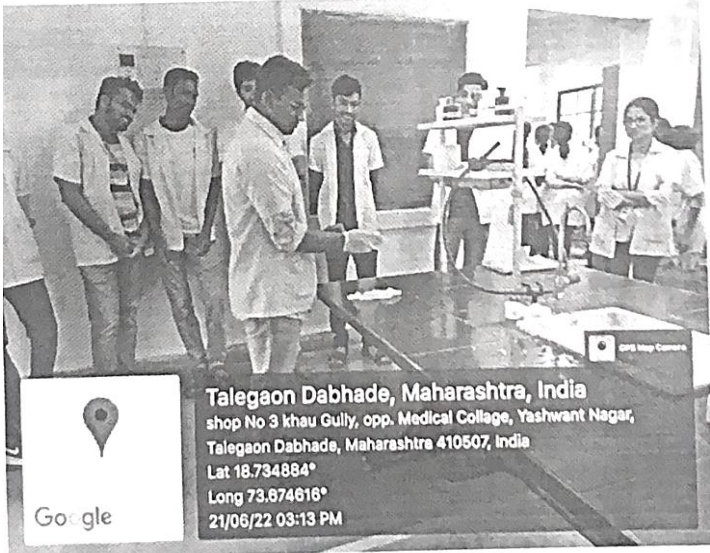
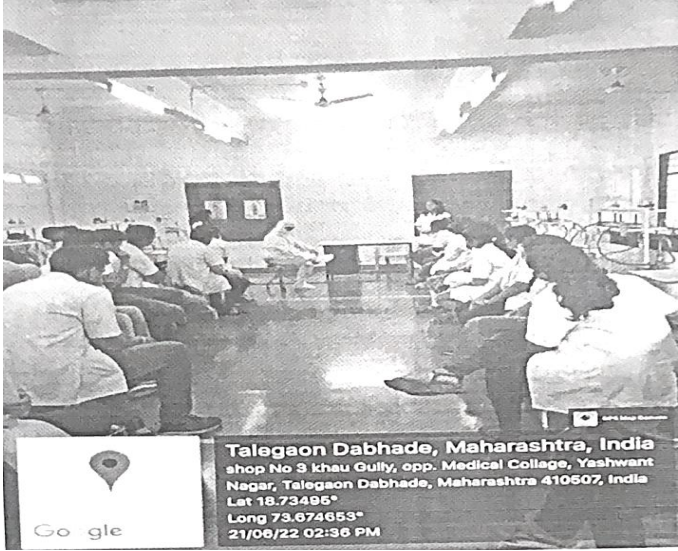
Sr. No	Topic
1	Culture media & Identification of Bacteria
2	Antimicrobial Susceptibility Test & Interpretation of Reports
3	Serological Tests
4	PPE, Hand Hygiene
5	Laboratory Diagnosis of Viral Diseases Interpretation of Reports
6	Laboratory Diagnosis of Parasitic Diseases & Interpretation of Reports
7	Lab. Diagnosis of Fungal Diseases
8	Molecular Diagnosis
9	Sterilization & Disinfection
10	Blood Stream Infection, Lab Diagnosis of Malaria (PBS for MP)

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PROF. AND HEAD
DEPTT. OF MICROBIOLOGY
MIMER MEDICAL COLLEGE
TALGAON DARBHAD

Activities in Microbiology laboratory



DEPARTMENT OF PHARMACOLOGY

Activities for undergraduate students in laboratory

Sr. No	Topic
1	Intro Pharmacy
2	Mixtures Solutions
3	Suspensions
4	Emulsions
5	Powders & ointments
6	Human GTN Expt.

Pharmacy Lab UG

- To prepare solution, suspension, emulsion, liniment, lotions

Experimental lab UG


- Disintegration and dissolution time of a tablet
Effects of drugs on Dog B.P.
Screening techniques for antiepileptic
Screening techniques for analgesics
To evaluate the effect of nitroglycerine on B.P and H.R in healthy volunteer

Timetable

Sr. No	Date	Topic	Teacher Name
1	14 th , 15 th & 16 th June 2022	ORS & IV Setting	Dr. R. J. WAGH Dr. J. M. Nikose
2	21 st , 22 nd & 23 rd June 2022	Routes Administration of drug	Dr. J. M. Nikose Dr. Ankita Sawant

PHARMACOLOGY LABORATORY ACTIVITIES



 GPS Map Camera

Talegaon Dabhade, Maharashtra, India

PMPF+5JP, Yashwant Nagar, Talegaon Dabhade, Maharashtra 410507, India

Lat 18.735557°

Long 73.674318°

14/06/22 02:51 PM



 GPS Map Camera

Talegaon Dabhade, Maharashtra, India

PMPF+5JP, Yashwant Nagar, Talegaon Dabhade, Maharashtra 410507, India

Lat 18.735557°

Long 73.674318°

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PHARMACOLOGY LABORATORY ACTIVITIES



MIMER Medical College, Talegaon (D)

DEPARTMENT OF FORENSIC MEDICINE AND TOXICOLOGY

Activities for undergraduate students in laboratory

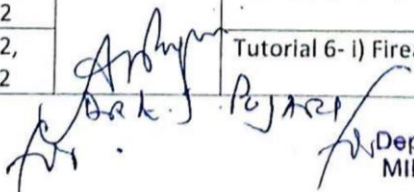
1. Age Estimation
2. Issuing of injury report
3. Medical Certificate of Cause of Death
4. Identification of weapon
5. Weapon Report
6. Examination of Victim/ Accused of Sexual Assault
7. Drunkenness Certificate
8. Identification of Poisons of Toxicological Importance
9. Foetus Examination
10. Bone Examination
11. Skiagram
12. X ray Examination report for determination of Age of Individual.
13. Fingerprint Identification

Timetable

MIMER Medical College, Talegaon (D) Department of Forensic Medicine & Toxicology

UG Practical Topics conducted in between June 2021 to August 2022

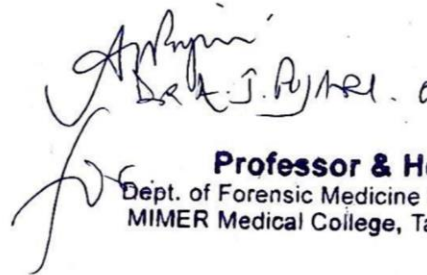
Date	Batch	Topic
05.06.2021, 19.06.2021	CBME I	PM Report I
18.06.2021		Phosphorus, Aconite, Oleander, Insecticide I
03.07.2021		Injury Report
05.07.2021		Poison Demonstration
17.07.2021		Weapon Report
24.07.2021		Victim & Accused of rape
02.08.2021		X ray Demonstration
19.04.2022, 20.04.2022		PM Report 1 (Poisoning), Visit to Toxicology Garden
26.04.2022, 27.04.2022		PM Report 2 (Snakebite), Form for forwarding viscera to the Chemical Analyser, Summon to Witness
03.05.2022, 04.05.2022		PM Report 3 (TB), Form for forwarding other than viscera to the Chemical Analysis, Form for viscera for Histopathological examination, Labels for Viscera bottles
10.05.2022, 11.05.2022		PM Report 4 (MI), Tutorial 1- Metallic Irritants
24.05.2022, 25.05.2022		Sickness Certificate, Fitness Certificate, Tutorial 2- Corrosive Poisons + Agricultural poisons, Visit to Casualty
31.05.2022, 01.06.2022		Fitness Certificate (Employment), Tutorial 3- Medical Law & Ethics
07.06.2022, 08.06.2022		MCCD Revision & Visit to Toxicology Garden
14.06.2022, 15.06.2022		PM Report 5 - Decapitation
21.06.2022, 22.06.2022		ML Autopsy Videos
28.06.2022, 29.06.2022		PM Report 6- Head Injury
05.07.2022, 06.07.2022		Injury Report
12.07.2022, 13.07.2022		Examination of weapon
19.07.2022, 20.07.2022		Tutorial 4- Mechanical Injuries & Legal Procedures
26.07.2022, 27.07.2022		Tutorial 5- Sexual Offences
02.08.2022, 03.08.2022		Photographs, Specimen, Documents- I
09.08.2022, 10.08.2022		Tutorial 6- i) Firearm Injuries ii) ML Aspects of wound



Professor & Head

Dept. of Forensic Medicine & Toxicology
MIMER Medical College, Talegaon (D).

02.05.2022, 06.05.2022	CBME II	MCCD
23.05.2022, 27.05.2022		Examination of Skeletal Remains
30.05.2022, 03.06.2022		Skiagram
20.06.2022, 24.06.2022		Demonstration of Age Estimation
13.06.22, 17.06.22, 27.06.22		General Toxicology
04.07.2022, 08.07.2022		Metallic Poisons
18.07.2022, 22.07.2022		Alcohol Organic irritant (Vegetable) poisons & Spinal Poisons
01.08.2022, 05.08.2022		Corrosives, Cardiac poison, Nonmetallic- Phosphorus
08.08.2022, 12.08.2022		Revision- Age, Poison demonstration, Photographs, Documents,


Professor & Head
 Dept. of Forensic Medicine & Toxicology
 MIMER Medical College, Talegaon (D).

DEPARTMENT OF COMMUNITY MEDICINE,

Laboratory activities

Facility provided :-

1. Teaching facilities for UG & PG students at college laboratory
2. Laboratory services at RHTC and UHTC

Teaching activities :-

1. Nutritional demonstration :-
Students are introduced to various Nutritional ingredients such as cereals, pulses, milk, egg, oils, condiments, vegetables etc.
2. Arthropods of Medical importance.
3. Insecticides
4. Instruments used in environmental sanitation such as barometer, thermometer, sling's psychomotor .
5. Water quality monitoring :-
Chlorine demand of water, residual chlorine, water purification.
6. Vaccines and Cold chain
7. Contraceptive methods

Laboratory services at RHTC and UHTC

1. Basic investigations :- HB, Blood sugar, Blood grouping, Urine routine, UPT, OGCT

DEPARTMENT OF COMMUNITY MEDICINE


Undergraduate Practical/ Visit

June 2021 to August 2022

Time :- 1.30pm to 4.30 pm

Date	Topic	Attendance
11/04/2022	Introduction to Community Medicine	52/75
15/04/2022	Introduction to Community Medicine	45/75
18/04/2022	Water collection & estimation chorine demand	63/75
22/04/2022	Water collection & estimation chorine demand	67/75
6/5/2022	Visit: Water Purification Plant	44/75
2/05/2022	Visit: Water Purification Plant	43/75
30/5/2022	Visit: District VBDC office programme DOAP- Demonstration of vectors of public health importance/ Insecticides	51/75
3/6/2022	Visit: District VBDC programme office DOAP- Demonstration of vectors of public health importance/ Insecticides	63/75
13/6/2022	Visit to DHO Office DOAP: Analysis and interpretation of disease outbreak data Preparation of epidemic curve/ spot map	46/75

Date	Topic	Attendance
17/6/2022	Visit to DHO Office DOAP: Analysis and interpretation of disease outbreak data Preparation of epidemic curve/ spot map	68/75
24/6/2022	Visit to DTC/ District Disaster Management office DOAP- Preparation of Disaster preparedness plan	31/75
27/6/2022	Visit to DTC/ District Disaster Management office DOAP- Preparation of Disaster preparedness plan	59/75
4/7/2022	DOAP –Speciman Collection And Transport	61/75
8/7/2022	DOAP -Speciman Collection And Transportation of	28/75
18/7/2022	Visit to Public Health Laboratory	41/75
22/7/2022	Visit to Public Health Laboratory	17/75
1/8/2022	Biomedical Waste Management	16/75
5/8/2022	Biomedical Waste Management	59/75


 Professor & Head
 Department of Family Medicine
 Talagaon Dabhadhe
 Talagaon Dabhadhe



LABORATORY ACTIVITIES- PG STUDENTS
DEPT. OF BIOCHEMISTRY

- 1) Exposure to laboratory equipment & glassware
- 2) Collection & storage of different biological fluids
- 3) Exposure to biomedical waste & quality control in labs
- 4) Qualitative experiments (Carbohydrates & proteins)
- 5) Quantitative experiments- Blood sugar, LFT, RFT, Enzymes,

Lipid profile

- 6) Identification of abnormal constituents in urine
- 7) Urine report
- 8) Exposure to various instruments CCL
- 9) Standardization of various estimations
- 10) Exposure to CCL procedures & hand on training with various equipment.

MD Biochemistry Year wise Block Timetable

III CLINICAL BIOCHEMISTRY

Routine biochemical investigations and various organ function tests i.e. LFT ,RFT etc.

B. PRACTICAL

Proficiency of technological methods should include the following:

1. Fields in which high degree of professional competence and theoretical knowledge is expected:-
 - a) Gross pathology and histopathology
 - b) Haematology
 - c) Cytopathology
 - d) Clinical pathology and Blood banking
2. Fields in which student is expected to achieve reasonable working knowledge and skills to be able to run laboratory services independently
 - a) Clinical chemistry
 - b) Serology
3. Fields in which student is expected to achieve general acquaintance of techniques to understand and interpret data
 - a) Immunopathology
 - b) Histochemistry
 - c) Immunohistochemistry
 - d) Cytogenetics
 - e) Molecular biology
 - f) Medical statistics

POSTING SCHEDULE:

1) Histopathology and Autopsy	:-	15 months
2) Clinical pathology	}	:- 15 months
Haematology		
Cytopathology		
Blood Bank		
3) Biochemistry	:-	1 month
4) Serology	:-	15 days
5) Museum	:-	15 days
6) Revision in all sections	:-	4 months
TOTAL		36 months

RECOMMENDED MINIMUM TEXT BOOKS AND JOURNALS

1 st year	2 nd year	3 rd year
<p>Routine: Basic Biochemistry Chemistry of Lipids, Proteins & Carbohydrates Enzymes Detoxification</p>	<p>Routine: Metabolism of Lipids, Proteins & Carbohydrates Integration of metabolism Micronutrients Endocrinology Nutrition</p>	<p>Routine: Bioenergetics Tissue biochemistry Molecular biology Organ function test Oncogenesis ECM/ protein targeting</p>
<p>Special: Clinical Biochemical Lab techniques & CCL</p>	<p>Special: Clinical Biochemical Lab techniques & CCL</p>	<p>Special: Clinical Biochemical Lab techniques & CCL</p>
<p>Practical: Total quality management of lab Fractionation/ identification of amino acid Routine UG practicals</p>	<p>Practical: Enzymatic activity Enzymatic kinetics Endocrinology Estimation of hormones & VMA – other markers</p>	<p>Practical: Isolation of DNA PCR Lipid profiles estimation Body fluid analysis Iron/ TIBC & other heamatological test</p>

Department of Pathology
Activities of postgraduate students in laboratory

1. Detailed knowledge of phlebotomy
2. Performing phlebotomy
3. Haemogram estimation by haematology analyzer and its Interpretation
4. Peripheral smear preparation, staining, and reporting
5. Body fluid analysis
6. Urine examination- routine and microscopy
7. Stool examination
8. Cytology – FNAC procedure and reporting, liquid based cytology
9. Semen analysis
10. Histopatholgy exercises – grossing, reporting, frozen section
11. Blood bank – blood collection, blood grouping, cross matching, coombs tests, donor selection blood donation camps.

ROTATION OF PG STUDENTS ACCORDING TO NMC

S. No	Section/ Subject	Duration in months
(i)	Surgical Pathology, Autopsy, Immunohistochemistry	11-16
(ii)	Hematology, Laboratory Medicine, and Blood bank	8-10
(iii)	Cytopathology	6-9
(iv)	Basic Sciences, Immunopathology, Cytogenetics, Electron microscopy, Molecular Biology etc. and Research Techniques including Thesis	2-6
	Total	36 (including exam)

PG ACTIVITY IN HISTOPATHOLOGY LABORATORY-
GROSSING



Map of Talegaon Dabhade, Maharashtra, India. The map shows the location of the laboratory and surrounding areas like Tapodham Colony and Rajgurav. A weather overlay shows a sun icon, 27°C (81°F), and the date 2022-11-18(Fri) 02:47(pm).

PG ACTIVITY HISTOPATHOLOGY



Map of Talegaon Dabhade, Maharashtra, India. The map shows the location of the lecture hall. A weather overlay shows a sun and cloud icon, 25°C (77°F), and the date 2022-08-19(Fri) 02:53(pm).

DEPARTMENT OF PHARMACOLOGY
Activities for postgraduate students in laboratory

Animal handling

Evaluation of various drugs e.g. local anesthetics, mydriatics- meiotic skeletal muscle relaxants

To demonstrate effect of nitroglycerine on B.P and H.R in healthy volunteer

To evaluate effect of propranolol on B.P and H.R

TIMETABLE- PG LABORATORY ACTIVITIES

Sr. No	Date	Topic	Teacher Name
1	11/06/2022	Lab Animal Handling & Short Techniques	Dr. R.J. Wagh
2	11/06/2022	Standard Techniques –Feeding Tube Administration	Dr. R.J. Wagh
3	17/06/2022	Eye Experiments –Rabbit	Dr. R.J. Wagh
4	18/06/2022	Blood Sampling Technique	Dr. A.S.Chincholkar
5	21/07/22	Demonstrate analgesic effects of Pentazocine in mice	Dr. R.J. Wagh
6	21/7/22 -	Demonstrate muscle relaxant property of Atracurim in Rats	Dr. A.S.Chincholkar
7	22/07/22	Demonstrate anticonvulsant property of phenytoinagains MES included convulstons in rats -	Dr. A.S.Chincholkar



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DEPT. OF MICROBIOLOGY

PG LABORATORY ACTIVITIES

Collection and transport of specimens, receiving of samples,
Preparation of requisite reagents, chemicals, media and glassware, processing of specimens,
Performing required antimicrobial susceptibility testing and reporting on the specimens,
Interpretation of results, sterilization procedures, bio-safety precautions, Infection control practices, maintenance of equipments, Record keeping and quality control in Microbiology. **3) Suggested schedule of rotation:**

A. Intrinsic rotation:

Bacteriology (Aerobic and anaerobic) - 6 months
Mycobacteriology - 3 months
Hospital infection surveillance - 3 months Serology
/Immunology - 6 months
Mycology - 3 months
Virology/HIV - 3 months
Parasitology - 3 months
Clinical Microbiology (OPD) - 2 months 9. Molecular Diagnostics - 1 month

Extrinsic rotation:


Clinical Pathology - 3 months
Elective posting - 3 months **Total** - 36 months

Intradepartmental Laboratories rotation

Media preparation
Bacteriology – Aerobic & anaerobic culture sensitivity
Serology, Immunology Virology antigen – antibody reaction
Mycology - microscopy & C/S
Mycobacteriology –ZN staining
Quality Control Infection control procedures, Hand washing techniques
Stabilization disinfection procedure
RT-PCR - RNA Extraction, Master Mix, Template addition , PCR

DEPARTMENT OF COMMUNITY MEDICINE
Postgraduate Practical/ Visit
June 2021 to August 2022
Time :- 1.30pm to 4.30 pm

Date	Topic	Attendance
17/6/2022	Visit to DHO Office DOAP: Analysis and interpretation of disease outbreak data Preparation of epidemic curve/ spot map	1/1
24/6/2022	Visit to DTC/ District Disaster Management office DOAP- Preparation of Disaster preparedness plan	1/1
27/6/2022	Visit to DTC/ District Disaster Management office DOAP- Preparation of Disaster preparedness plan	1/1
18/7/2022	Visit to Public Health Laboratory	2/2
22/7/2022	Visit to Public Health Laboratory	2/2
1/8/2022	Biomedical Waste Management	2/2
5/8/2022	Biomedical Waste Management	2/2


Professor & Head
Dept. of Community Medicine
MIMER Medical College
Talgaon Dabhade

DEPARTMENT OF COMMUNITY MEDICINE,

PG LABORATORY ACTIVITIES

Facility provided :-

1. Teaching facilities for UG & PG students at college laboratory
2. Laboratory services at RHTC and UHTC

Teaching activities:-


1. Nutritional demonstration :-
Students are introduced to various Nutritional ingredients such as cereals, pulses, milk, egg, oils, condiments, vegetables etc.
2. Arthropods of Medical importance.
3. Insecticides
4. Instruments used in environmental sanitation such as barometer, thermometer, sling's psychomotor .
5. Water quality monitoring :-
Chlorine demand of water, residual chlorine, water purification.
6. Vaccines and Cold chain
7. Contraceptive methods

Laboratory activities at RHTC and UHTC

1. Basic investigations :- HB, Blood sugar, Blood grouping, Urine routine, UPT, OGCT
2. Samples for other investigations are referred to MIMER Medical College Lab.

UG, PG ACTIVITIES IN SKILL LAB

1. Drug administration by various routes in Simulated environment using mannequins for second MBBS students conducted by department of Pharmacology on 27th to 29th July 2021
2. Hands on training on Basic Life Support" for 1st MBBS Students on the occasion of CPR day on 26th, 27th& 28th July 2021 conducted by Department of Physiology and department of Medicine.
3. Setting of an intravenous fluid drip and administration of a drug by intravenous route in simulated environment using mannequins for second MBBS students conducted by department of Pharmacology on 20th to 22nd July 2021


Dr. Simpa Gurav,
Prof. & HOD,
Reg. No. 68300
Dept. of Physiology
SINHA Pratibha College
Talgaon Dabhade

Skills lab activity



ACTIVITIES IN CENTRAL RESEARCH LABORATORY

The Central Research Lab (CRL) is engaged in research which is at the interface of nanobiomaterials and biotechnology. CRL aims to empower and enable scientists and doctors in pursuing biomedical research and innovations that will benefit society. The major focus of CRL research is development of new nanomaterials as well as platforms for diagnosis and treatment of various ailments including cancer, submucosal fibrosis and noninvasive prenatal prognosis. CRL is also involved in developing clinically important technologies for Covid-19 and wound dressing material for reducing nosocomial infections.

EXPOSURE TO ANIMAL HOUSE

MAEER MIT Pune's

MIMER MEDICAL COLLEGE, TALEGAON (D)

Dept. of Pharmacology

Sr. No	Date	Topic	Teacher Name
1	11/06/2022	Lab Animal Handling & Short Techniques	Dr. R.J. Wagh
2	11/06/2022	Standard Techniques –Feeding Tube Administration	Dr. R.J. Wagh
3	17/06/2022	Eye Experiments –Rabbit	Dr. R.J. Wagh
4	18/06/2022	Blood Sampling Technique	Dr. A.S.Chincholkar
5	21/07/22	Demonstrate analgesic effects of Pentazocine in mice	Dr. R.J. Wagh
6	21/7/22 -	Demonstrate muscle relaxant property of Atracurim in Rats	Dr. A.S.Chincholkar
7	22/07/22	Demonstrate anticonvulsant property of phenytoin against MES induced convulsions in rats -	Dr. A.S.Chincholkar

To demonstrate Standard Techniques of Feeding Tube insertion in animals for post graduate students - department of Pharmacology



EXPOSURE TO IN-HOUSE HERBAL GARDEN

MIMER Medical College & Dr.BSTR Hospital, Talegaon Dabhade, Pune

WORKSHOP ON ORIENTATION TO POST GRADUATE COURSE

MODULE – 1 (FOR ALL PG STUDENTS)

DATE : 17 th MAY 2022 DAY : TUESDAY TIME : 11AM TO 1PM VENUE : SUSHRUT HALL				
Time	Topics	Faculty	Content	Duration
11 TO 11:12 AM	<i>Welcome address</i>	Dr Swati Belsare, Principal MIMER	<ul style="list-style-type: none"> Introduction to MIMER Expectations from PG student 	12 min
11:12 TO 11:47 AM	<i>Introduction of each PG student</i>	-	<ul style="list-style-type: none"> Each PG student will introduce herself/himself in a set format 	45 min
11:47 AM TO 12:02 PM	<i>Introductory remarks</i>	Dr Suchitra Karad-Nagare, Executive Director, MIMER	<ul style="list-style-type: none"> Legacy of MAEER Vision & mission of the institute Discipline & decorum of a 'MIMER-student' 	15 min
12:02 TO 12:14 PM	<i>Working of Dr BSTR Hospital</i>	Dr Prashant Kamath, Med. Supt., Dr.BSTRH Professor, Orthopedics	<ul style="list-style-type: none"> Legacy of MIMER Medical College Overview of the hospital working 	12 min
12:14 TO 12:26 PM	<i>Conduct of a PG student in MIMER</i>	Dr Sachin Naik Incharge PG Curriculum Prof. & Head, Surgery	<ul style="list-style-type: none"> <i>Attitude, Communication & Caring</i> 	12 min
12:26 TO 12:38 PM	<i>Research culture at MIMER</i>	Dr Janice Jaison Head, Dept.of Clinical Research & Incubation Center	<ul style="list-style-type: none"> Various platforms to understand research Opportunities & support provided by MIMER 	12min
12:38 TO 12:50 PM	<i>Social initiatives at MIMER</i>	Dr Darpan Maheshgauri Professor, Orthopaedics	<ul style="list-style-type: none"> Commitment of the institute for the community 	12 min
Total				120 min

MODULE – 2 : FOR SURGICAL SPECIALTY PG STUDENTS (Surgery, Ortho, ObGyn, ENT, Ophthal)

DATE : 18 th MAY 2022 DAY : WEDNESDAY TIME : 11AM TO 1PM VENUE : SUSHRUT HALL				
11 TO 11:45AM	<i>Basic Life Supports & Casualty protocols</i>	Anaesth. Dept	<ul style="list-style-type: none"> Introduction Demonstration 	45 min
11:45 TO 12 NOON	<i>Sanctity of the Operation Theater</i>	Dr Sandesh Gawade	<ul style="list-style-type: none"> General instructions (SOPs) DOs & DON'Ts 	15 min
12 TO 12:15PM	<i>Optimization of patient for Surgery</i>	Dr Sudeep Kumar	<ul style="list-style-type: none"> Considerations in IHD, HTN & DM Patients "Medical fitness" for Anesthesia 	15 min
12:15 TO 12:30PM	<i>Special concerns in managing ANC / PNC patients</i>	Dr Sushma Sharma	<ul style="list-style-type: none"> Special considerations in an ANC patient Drugs/contraindications in ANC/PNC 	15 min
12:30 TO 12:45PM	<i>Optimum Utilization of Radiology Services</i>	Col Dr Thind	<ul style="list-style-type: none"> Requisition for investigations Role of communication with radiologist 	15 min

MODULE – 3 (FOR ALL SURGICAL SPECIALTIES)

(Other PG departments to design their program relevant to their respective departments)

DATE : 19 TH MAY 2022 DAY : THURSDAY TIME : 11AM TO 1PM				
VENUE : SUSHRUT HALL				
	Topics	Faculty	Content	Time
11 TO 11:15 AM	<i>ABCDE of Polytrauma</i>	Dr Santosh Borkar	<ul style="list-style-type: none"> • Triage • Emergency Mx 	15min
11:15 TO 11:30 AM	<i>Thoraco-abdominal injuries</i>	Dr Sachin Naik	<input type="checkbox"/> Diagnosis & Evaluation <input type="checkbox"/> Emergency management	15min
11:30 TO 11:45 AM	<i>Diagnosis of Head Injuries</i>	Dr Vivek Bonde	<input type="checkbox"/> Diagnosis & Evaluation <input type="checkbox"/> Emergency management	15min
11:45 TO 12 NOON	<i>Screening for other Life threatening conditions in trauma</i>	Dr Manas Pusalkar	<ul style="list-style-type: none"> • Diagnoses • Emergency Management 	15min
12 TO 12:15PM	<i>Securing Airway</i>	Dr Santosh Kumar Rajmani	<input type="checkbox"/> Intubation	15min
12:15 TO 12:30PM	<i>Blood components and their indications</i>	Dr Powar	<ul style="list-style-type: none"> • Working of the blood bank • Components & their indications 	15min
12:30 TO 12:45PM	<i>Types of Anesthesia</i>	Anaesthesia dept	<ul style="list-style-type: none"> • GA, SA, EA, Regional blocks etc. • Basics of fluid management 	15min
12:45 TO 1PM	<i>PTSD</i>	Dr Aneesh Bhat	<ul style="list-style-type: none"> • Psychological trauma • Post-traumatic stress disorders 	15 min
	Total			120 min

Module 4- For orthopedic dept.**MODULE – 5**

- VISIT OF ALL PG STUDENTS TO MIMER CENTRAL CLINICAL LABORATORY
- VISIT TO CENTRAL RESEARCH LABORATORY
- VISIT OF ALL PG STUDENTS TO IN-HOUSE HERBAL GARDEN

MIMER MEDICAL COLLEGE TALEGAON (D)
DEPARTMENT OF FORENSIC MEDICINE AND TOXICOLOGY
Time Table - APRIL 2022
IIIrd MBBS - III/I (Vth TERM)
(Jan -2020 Batch-150, CBME- I)

EXPOSURE TO IN-HOUSE HERBAL AND TOXICOLOGY GARDEN

Date	Day	Time	Topic	Name of the Teacher
Week 1 (18.04.2022 to 23.04.2022)				
19.04.2022	Tuesday	9.00 - 10.00 am	L1 – Medical Law and Ethics I	Dr. A.J. Pujari
		1.30- 2.30 pm Batch A,B,C	SGL 1 PM Report 1 (Poisoning)	Dr. V. Z. Lunawat
		2.30- 4.30 pm Batch A,B,C	Visit to Toxicology Garden & Herbal Garden	Dr. A.J. Pujari
20.04.2022	Wednesday	1.30- 2.30 pm Batch D,E,F	SGL 1 PM Report 1 (Poisoning)	Dr. V. Z. Lunawat
		2.30- 4.30 pm Batch D,E,F	Visit to Toxicology Garden & Herbal Garden	Dr. A.J. Pujari
Week 2 (25.04.2022 to 30.04.2022)				
26.04.2022	Tuesday	9.00 - 10.00 am	L2 – Medical Law and Ethics II	Dr. A.J. Pujari
		1.30- 2.30 pm Batch A,B,C	SGL 2 PM Report 2 (Snakebite)	Dr. V. Z. Lunawat
		2.30- 3.30 pm Batch A,B,C	Form for forwarding viscera to the Chemical Analyser	Miss. R.R. Chavan
		4.00- 4.30 pm Batch A,B,C	Summon to Witness	Miss. R.R. Chavan

VISIT TO IN-HOUSE HERBAL GARDEN

