

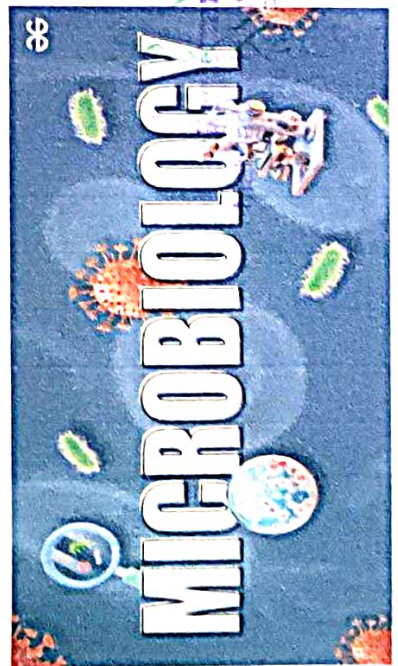


Index Department of Physiotherapy & Paramedical Sciences

Malwanchal University, Indore



Enhance Skills in Microbiology:



ABOUT

"Enhance Skills in Microbiology: Developing expertise in microbial identification, isolation, and characterization, and applying microbiological principles to prevent infections, diagnose diseases, and promote public health and safety."

Eligibility Criteria :

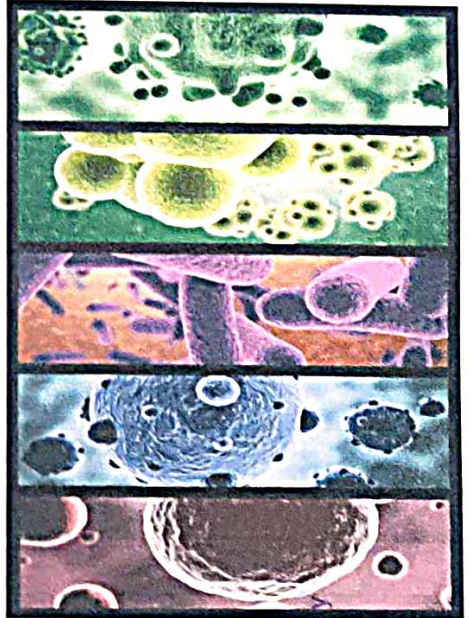
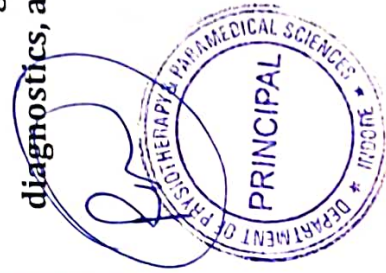
BMLT Students.
Resource Person
Mr. Durgesh Yadav
Registration Fees: 0
Start Date:- 14/11/23 To 16
Schedule:- 09:00 to 04:00

Module

1. Microbial taxonomy and classification
2. Laboratory techniques (staining, culturing, PCR)
3. Microbial metabolism and genetics
4. Immunology and vaccine development
5. Antimicrobial resistance and therapy
6. Microbiome analysis and bioinformatics"

Course Outcome

Upon completion, students will demonstrate expertise in microbiological techniques, critically evaluate microbial data, and apply microbiological principles to real-world scenarios, enhancing skills in research, diagnostics, and infection control."





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Department of Physiotherapy & Paramedical Sciences



MALWANCHAL UNIVERSITY, INDORE

Campus : Index City, NH-59A, Nemawar Road, District: Indore- 452016 (M.P.) Ph.: + 91 9755008280, +91 7024107465
Email : principalparamed@indexgroup.co.in, paramedical@indexgroup.co.in Website. Www.malwanchaluniversity/paramedical.co.in
City Office : 104, Trishul Apartment., 5, Sanghi Colony, A.B. Road, Indore M.P. -452008 (M.P.)

REF.NO.- IDOPT/PO/2023/

DATE: 04/11/2023

CIRCULAR

Index Department of Physiotherapy and Paramedical Sciences, Malwanchal University is conducting **Enhance skills in Microbiology for BMLT students**: the course will provide a depth knowledge on given topic

*Topic: -Enhance skills in Microbiology for BMLT students

*Date: 14/11/2023 - 16/11/2023

*Venue: Index department of physiotherapy and paramedical sciences.

*Resource Person: MR. Durgesh Yadav


You are expected to attend the above mentioned course to facilitate in-depth understanding of the topic and enhance the skills.

Faculties can enroll the names to Course Coordinator on or before 08/11/2023


COURSE COORDINATOR
DR. SURBHI RAJPUT




PRINCIPAL
PARAMEDICAL COURSES


Malwanchal University
Indore (M.P.)



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Department of Physiotherapy and Paramedical Sciences

MALWANCHAL UNIVERSITY, INDORE

Ref: - IDOPT/PO/2023/6057

Date: 17/11/2023

Report: Enhance Skills in Microbiology for BMLT Students

Date :- 14/11/23-15/11/23

Introduction and Overview

Microbiology is a vital component of medical laboratory technology, playing a crucial role in disease diagnosis, treatment, and prevention. Medical laboratory technologists (MLTs) must possess comprehensive knowledge of microbiological principles, techniques, and safety protocols to provide accurate and reliable test results. This two-day workshop aimed to enhance the skills of BMLT students in microbiology, focusing on theoretical and practical aspects.

The objectives of this workshop were:

- To understand the fundamental principles of microbiology, including microbial classification, growth, and metabolism
- To learn laboratory techniques for microbial isolation, identification, and characterization
- To develop skills in microscope handling and staining procedures
- To apply microbiological principles to clinical scenarios and case studies

The workshop combined lectures, discussions, and hands-on laboratory sessions to provide students with a comprehensive understanding of microbiological concepts.

Day 1:

The first day of the workshop began with an overview of microbial classification, morphology, and growth. Students learned about:

- Bacterial cell structure and function
- Microbial metabolism and genetics
- Laboratory safety protocols and biosafety levels

Key Takeaways:

1. Microscopic examination of microorganisms
2. Staining techniques (Gram staining, acid-fast staining)
3. Cultivation and isolation of microorganisms

Practical Session:

Students participated in a hands-on laboratory session, focusing on:

- Microscope handling and staining procedures
- Cultivation of microorganisms on selective media
- Isolation and identification of microorganisms using biochemical tests

Day 2:

The second day of the workshop focused on:

- Immunology and vaccine development
- Antimicrobial susceptibility testing
- Molecular diagnostic techniques (PCR, RFLP)



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Case Study Presentations:

Students presented case studies, applying microbiological principles to real-world scenarios. Discussions focused on:

- Microbial identification and characterization
- Antibiotic resistance and treatment options
- Laboratory safety and quality control

Conclusion:

This workshop enhanced the skills of BMLT students in microbiology, providing a solid foundation for future practice. By applying microbiological principles, students will provide accurate and reliable test results, contributing to effective disease diagnosis, treatment, and prevention.

Assessment:

Students demonstrated proficiency through:

- Practical assessments (60%)
- Written quizzes (20%)
- Case study presentations (20%)

Resource Persons:

- Mr. Durgesh Yadav

Duration:

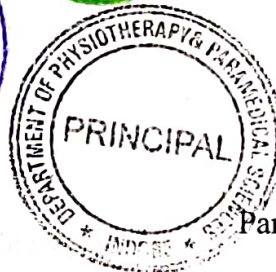
Two days (16 hours)

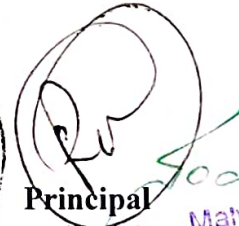
This workshop equipped BMLT students with essential knowledge and skills to excel in microbiology, ensuring accurate and reliable test results in clinical settings.

Summary of Key Takeaways:

- Microbial classification, morphology, and growth
- Laboratory techniques for microbial isolation and identification
- Microscope handling and staining procedures
- Application of microbiological principles to clinical scenarios and case studies


Report Made by:
Dr. Surbhi Rajput




Principal
Matwanchal University
Indore (M.P.)
Paramedical Courses



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Department of Physiotherapy and Paramedical Sciences Malwanchal University Indore

Value Added Course: Enhance Skills in Microbiology for BMLT Students

Date: 14th-16th November 2023

Venue: Index Department of Physiotherapy and Paramedical Sciences College, Indore

Resource Person: Mr. Durgesh Yadav

Course Overview:

This 3-day value-added course aims to enhance the skills of BMLT students in microbiology, focusing on practical applications and advanced techniques.

Day 1: Foundations of Microbiology

The first day covers:

- Review of Microbial Anatomy and Physiology
- Classification and Identification of Microorganisms
- Microbial Cultivation and Staining Techniques
- Biochemical Tests for Microbial Identification
- Laboratory Safety and Biosafety Protocols

Day 2: Advanced Microbiology Techniques and Applications

The second day focuses on:

- Molecular Diagnostic Techniques: PCR, RAPD, and DNA Sequencing
- Immunological Techniques: ELISA, Western Blot, and Immunofluorescence
- Microbial Resistance and Antibiotic Sensitivity Testing
- Bioinformatics and Microbial Genomics
- Case Studies and Group Discussions: Applying Microbiology Principles to Clinical Scenarios

Day 3: Practical Sessions and Project Work

The third day involves:

- Hands-on Training in Microbial Cultivation and Identification
- Molecular Diagnostic Technique Practicals
- Project Work: Designing and Presenting Microbiology Research Projects
- Viva Voce and Feedback Session

Course Objectives:

Upon completion, participants will:

1. Understand microbial anatomy, physiology, and identification techniques.
2. Apply advanced microbiology techniques, including molecular diagnostics.
3. Recognize microbial resistance and antibiotic sensitivity testing.
4. Integrate microbiology principles with clinical applications.

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Assessment and Certification:

Participants will be assessed through written quizzes, practical sessions, and project presentations. Successful completion will result in a certificate from Index Department of Physiotherapy and Paramedical Sciences College, Indore.

Course Materials:

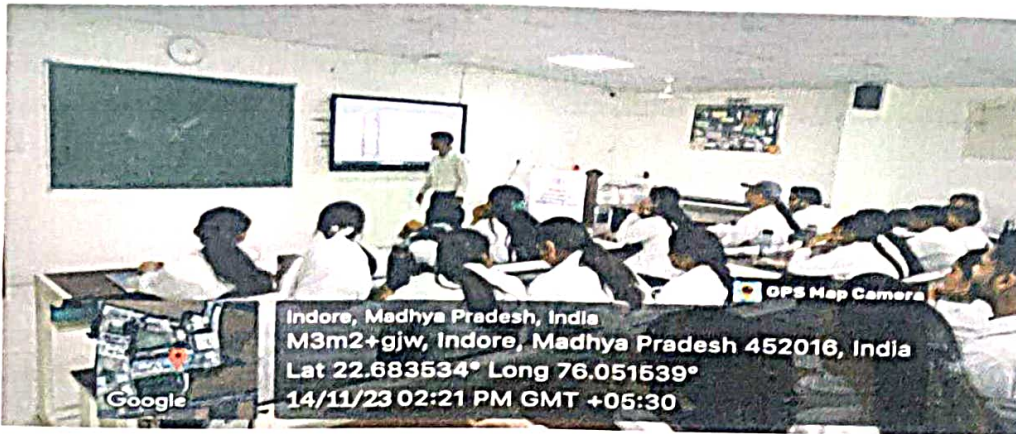
- Workshop manual
- PowerPoint presentations
- Handouts and worksheets
- Relevant journals and research articles

Course Material
Workshop manual
PowerPoint presentations
Handouts and worksheets
Relevant journals and research articles



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Matwanchal University
Indore (I.I.P.)

Enhance skills in microbiology for BMLT students



Mr. Durgesh sir telling about skills in microbiology



Mr. Durgesh sir giving introduction on enhancement [microbiology]



Mr. Durgesh sir teaching with smart board



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Department of Physiotherapy and Paramedical Sciences Malwanchal University Indore

Topic: - Enhance skills in microbiology for BMLT students

Resources Person: - Mr. Durgesh Yadav

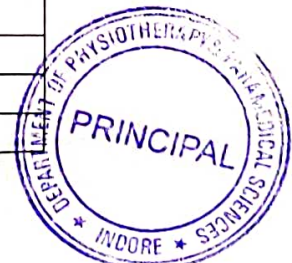
Date: - 14/11/2023-15/11/2023

Student Attendance List (BMLT)

S.No	Students Name	Signature
1	Roshni Rathod	Roshni
2	rajni sisodiya	Rajni
3	Yashoda jadhav	Yashoda
4	Nikita panchal	Nikita
5	Kali bariya	Kali
6	Anil Chauhan	Anil
7	Ankit vaidya	Ankit
8	Hariom Dangi	Hariom
9	Satish Manik	Satish
10	Yuvraj waskle	Yuvraj
11	Anand devda	Anand
12	Uzma Ali	Uzma
13	Basanti khanna	Basanti
14	Arzeena khan	Arzeena
15	Pawan solanki	Pawan
16	Durgesh solanki	Durgesh
17	Deepak kag	Deepak
18	Shivam Deshmukh	Shivam
19	Neeraj ahirwal	Neeraj
20	Mayanka singh	Mayanka
21	Pushpa jamle	Pushpa
22	Komal bhanwar	Komal
23	Pratima chouhan	Pratima
24	Radha alawa	Radha
25	Priyanka vasuniya	Priyanka
26	Abhishek kaushik	Abhishek
27	Abhishek makwana	Abhishek
28	Atul jadam	Atul
29	Anushi verma	Anushi
30	Anuj Patel	Anuj
31	Hasmat Ali	Hasmat
32	Ilma Khan	Ilma
33	Iqra Abbasi	Iqra

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P.S.



34	krishnapal solanki	<u>Kri</u>
35	Prashant chauhan	<u>Prashant</u>
36	Rohit panwar	<u>Rohit</u>
37	Nikita solanki	<u>Nikita</u>
38	Mahesh baghel	<u>Mahesh</u>
39	Vijay mujalde	<u>Vijay</u>
40	Birja waskle	<u>Birja</u>
41	Rekha rawat	<u>Rekha</u>
42	Renuka Patel	<u>Renuka</u> ..
43	Ranu gavliya	<u>Ranu</u>
44	Rameshwar Dangi	<u>Rameshwar</u> ...
45	Kamal Dangi	<u>Kamal</u> ..
46	Sangeeta chouhan	<u>Sangeeta</u> ...
47	Sadhana randhawa	<u>Sadhana</u> ..
48	Raj Nandini Patel	<u>Raj</u> ..
49	Saniya ali	<u>Saniya</u> ..
50	Naman Achale	<u>Naman</u> ..

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Durgesh

Resource Person
 Mr. Durgesh Yadav



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 Paramedical Courses



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Department of Physiotherapy and Paramedical Sciences Malwanchal University Indore

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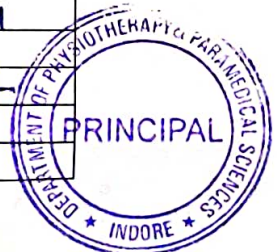
Student Certificate List

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24	Radha alawa	Radha
25	Priyanka vasuniya	Priyanka
26	Abhishek kaushik	Abhishek
27	Abhishek makwana	Abhishek
28	Atul jadam	Atul
29	Anushi verma	Anushi
30	Anuj Patel	Anuj
31	Hasmat Ali	Hasmat
32	Ilma Khan	Ilma
33	Iqra Abbasi	Iqra

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Resource Person
Mr. Durgesh Yadav



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