



UNDERGRADUATE (MBBS) ACADEMIC RECORD

Microbiology



**The Tamil Nadu Dr. M.G.R. Medical
University, Chennai**

**The Tamil Nadu
Dr. M.G.R. Medical University
Chennai**



**Under Graduate (MBBS)
Academic Record / Log Book
Department of Microbiology**

Preface

The new Graduate Medical Education Regulations attempts to stand on the shoulders of the contributions and the efforts of resource persons, teachers and students (past and present). It intends to carry forward the process of learning to enable the Indian Medical Graduate, a consummate provider of health care aligned to the evolving needs of the patients in every socio-economic setting.

The thrust in the new regulations is put on the continuation and evolution of thought in medical education making it more learner-centric, patient-centric, gender sensitive, outcome -oriented and environment appropriate. The result is an outcome driven curriculum which conforms to global trends. Emphasis is made on alignment and integration of subjects both horizontally and vertically, while respecting the strengths and necessity of subject-based instruction and assessment.

Learner-centered teaching learning methods shall include early clinical exposure, problem/case-based learning, case studies, community-oriented learning, self-directed, integrated learning, experiential learning & electives.

The importance of ethical values, responsiveness to the needs of the patient and acquisition of communication skills is underscored by providing dedicated curriculum time in the form of a longitudinal program based on Attitude, Ethics and Communication (AETCOM) competencies. Great emphasis has been placed on collaborative and inter-disciplinary teamwork, professionalism, altruism and respect in professional relationships with due sensitivity to differences in thought, social and economic position and gender.

This Academic Record for Undergraduate Medical Students is to be maintained by the student and is part of the learner's personal progress assessment toolkit. The learner shall present the Academic Record to the staff facilitator / mentor at the end of all class room learning / practical sessions / integrated learning sessions / ECE / SDL / AETCOM sessions and feedback sessions as called for by the faculty facilitators / mentors. The progress shall be recorded in the various segments of the record and signed by the facilitator / mentor.

Certificate

This is to certify that

Mr/ Ms. _____

University Registration No. _____ has satisfactorily attended and completed all academic activities (Theory & Practical) as assigned in this record as per the guidelines prescribed under the Tamil Nadu Dr. M. G. R. Medical University in the subject of Microbiology.

Head of Department

Date:

Place:

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1. Background of the course

Subject Goal: The broad goal of teaching Microbiology to undergraduate students is to provide the understanding about the natural history of infectious diseases to deal with the aetiology, pathogenesis, laboratory diagnosis, treatment, control & prevention of infections in the community as per Revised Competency Based Medical Education Curriculum Guidelines, 2024

At the end of Microbiology teaching-learning activities learner should be able to:

- i. Comprehend the immunological mechanisms in health and disease.
- ii. Comprehend the role of microbial agents in health and disease.
- iii. Correlate the natural history, mechanisms and clinical manifestations of infectious diseases as they relate to the properties of microbial agents.
- iv. Comprehend the principles and application of infection control measures.
- v. Comprehend the basis of choice of laboratory diagnostic tests and their interpretation.
- vi. Comprehend the principles of antimicrobial therapy and the control and prevention of infectious diseases.
- vii. Comprehend the mechanisms of antimicrobial resistance (AMR) and its prevention along with concept and application of the antimicrobial stewardship program.
- viii. Demonstrate the knowledge of outbreak investigation and its control.
- ix. Describe commensals, opportunistic and pathogenic organisms and explain host parasite relationship.
- x. Describe the characteristics (morphology, cultural characteristics, resistance, virulence factors, incubation period, mode of transmission etc.) of different microorganisms.
- xi. Explain the various defense mechanisms of the host against the microorganisms which can cause human infection.
- xii. Describe the laboratory diagnosis of microorganisms causing human infections and disease.
- xiii. Describe the prophylaxis for the particular infecting microorganisms.
- xiv. Operate routine and sophisticated instruments in the laboratory.
- xv. Demonstrate respect for patient samples, confidentiality pertaining to patient identity in laboratory results and effective communication skills in patient care

2. Curriculum Vitae

1. Name of the Student		
2. Date of Birth		
3. Permanent Address		
4. Contact Details		
i. Residential Address		
ii. Mobile No.		
iii. Land Line No.		
iv. Email ID		
5. Name of Parent/Guardian Residential Address Land Line No. (Home)		
6. Mobile No. Parents/Guardian		

Signature

3. Continuous Internal Assessment- Theory

3(A) Assignments

Note:

1. The structure for the assignment should include an introduction, main body of the assignment and a conclusion if it is an essay work. Illustrations, flow charts, tables and graphs should be part of the submission, wherever necessary.
2. Plagiarism should be discouraged.

No.	Date	Title of Assignment	Page no.

Assignment No:
Date:
Topic:

Feedback of the facilitator

Signature of the facilitator

Assignment No:
Date:
Topic:

Feedback of the facilitator

Signature of the facilitator

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Feedback of the facilitator

Signature of the facilitator

3(B) Self- Directed Learning

SDL helps in empowering the student to perform an objective self-assessment of knowledge and skills, continue learning, refine existing skills and acquire new skills. It helps to apply newly gained knowledge or skills to the care of the patient, to introspect and utilize experiences, to enhance personal and professional growth and learning, to search (including through electronic means), and critically evaluate the medical literature and apply the information in the care of the patient and to identify and select an appropriate career pathway that is professionally rewarding and personally fulfilling. SDL will build capacity in learners to become Life Long Learner, one of the roles of Indian Medical Graduate.

Note:

1. The session shall be based on the “Desirable to know” areas of the curriculum. Examples: Competencies- MI 2.8, 3.5, 3.11, 3.13, 4.9, 5.5, 6.2, 8.3, 9.5 as per Guidelines of CBME Curriculum 2024.
2. The learner shall be assigned a specific learning objective for each session.
3. They shall record a detailed synopsis of the learning in this section. The student shall also record a list of the books/ journals referred.
4. The completion of such activity shall be recorded in this section by the learner and signed by the facilitator.

No.	Date	Topic	Page no.

SDL
Date:
Topic
Summary of the concept learnt:
Reference
Feedback of the facilitator
Signature of the facilitator

SDL
Date:
Topic
Summary of the concept learnt:
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3(C) Seminar

Date:
Topic
Summary of the concept learnt:
Reference
Feedback of the facilitator
Signature of the facilitator

3(D) Museum study

Date:
Topic
Summary of the concept learnt:
Reference
Feedback of the facilitator
Signature of the facilitator

4. Continuous Internal Assessment- Practical

4(A)Certifiable Skill Based Competencies

Note:

1. This section captures the skills and competencies obtained by the learner during the course work in the department.
2. The facilitator shall assess the learner for the specific certifiable competency and those certifiable competencies which the learner has acquired shall be entered in this section. A record of these is also maintained in the assessment record.

No.	Competencies	
1	MI 1.10, 7.4, 7.5	Perform and identify the causative agents of Infectious Diseases - Gram stain
2	MI 1.10, 7.5	Perform and identify the causative agents of Infectious Diseases: Acid fast staining
3	MI 1.10, 4.4	Perform and identify the causative agents of Infectious Diseases: Stool microscopy
4	MI 10.3	Demonstrate Infection control practices: Hand Hygiene
5	MI 10.3	Demonstrate Infection control practices: Personal Protective equipment (PPE)
6	MI 10.3	Demonstrate Infection control practices: Segregation of Biomedical waste
7	MI 1.6. 3.3	Demonstrate the appropriate method of collection & transport of sample- Blood culture collection
8	MI 1.6	Demonstrate the appropriate method of collection & transport of sample- Nasopharyngeal swab collection
9	MI 1.6	Demonstrate the appropriate method of collection & transport of sample- wound swab collection
10	MI 1.6	Demonstrate the appropriate method of collection & transport of sample- urine sample collection from an indwelling catheter

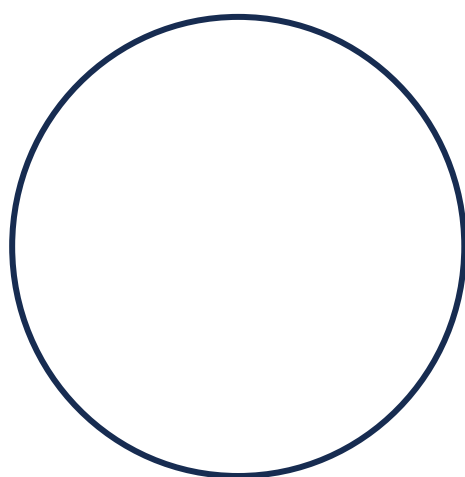
Certifiable skill Exercise – Gram Stain MI 1.10, 7.4, 7.5

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Gram stain

Case study:

Aim:



Observation:

Colour	Shape	Arrangement	Identification

Inference:

Example:

Feedback of the facilitator

Signature of the facilitator

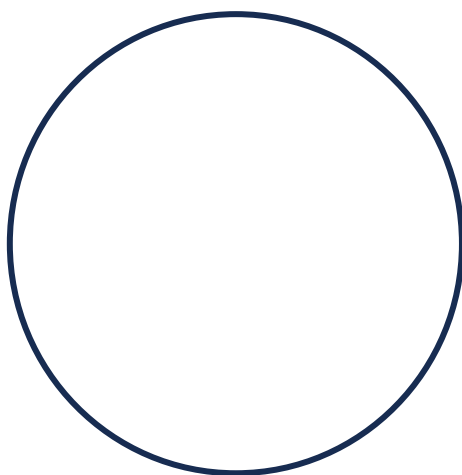
Certifiable skill Exercise – Gram Stain MI 1.10, 7.4, 7.5

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Objective: Perform and identify the causative agents of Infectious Diseases by Gram stain

Case study:

Aim:



Observation:

Colour	Shape	Arrangement	Identification

Inference:

Example:

Feedback of the facilitator

Signature of the facilitator

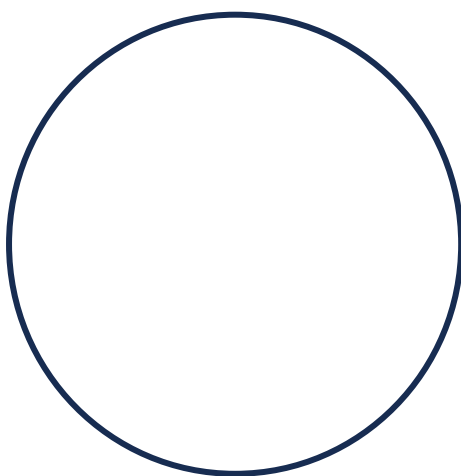
Certifiable skill Exercise – Gram Stain MI 1.10, 7.4, 7.5

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Gram stain

Case study:

Aim:



Observation:

Colour	Shape	Arrangement	Identification

Inference:

Example:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Gram Stain	
Type of skill:	MI 1.10, 7.4, 7.5 – i) Perform Gram staining ii) Identify the causative agents of Infectious Diseases
Type of Assessment:	OSPE: Perform Gram staining DOPS: Identify, draw and label the causative agents
Student's performance:	OSPE: Performs correctly / incorrectly DOPS: i) Identifies correctly / incorrectly ii) Draws correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.10, 7.4, 7.5. Date of Certification: Signature of the facilitator:	

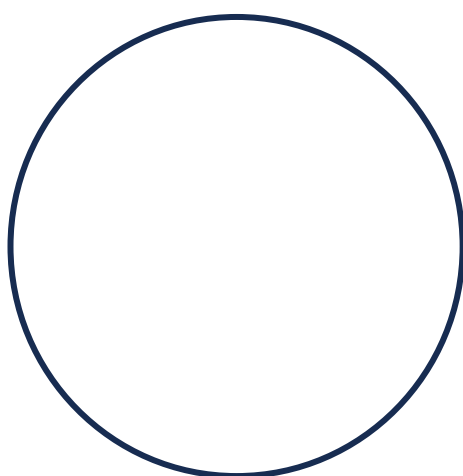
Certifiable skill Exercise – Gram Stain MI 1.10, 7.4, 7.5 (Remedial)

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Gram stain

Case study:

Aim:



Observation:

Colour	Shape	Arrangement	Identification

Inference:

Example:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Gram Stain	
Type of skill:	MI 1.10, 7.4, 7.5 – i) Perform Gram staining ii) Identify the causative agents of Infectious Diseases
Type of Assessment: (Remedial)	OSPE: Perform Gram staining DOPS: Identify, draw and label the causative agents
Student's performance:	OSPE: Performs correctly DOPS: i) Identifies correctly ii) Draws correctly
Decision of the faculty	Completed
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.10, 7.4, 7.5. Date of Certification: Signature of the facilitator:	

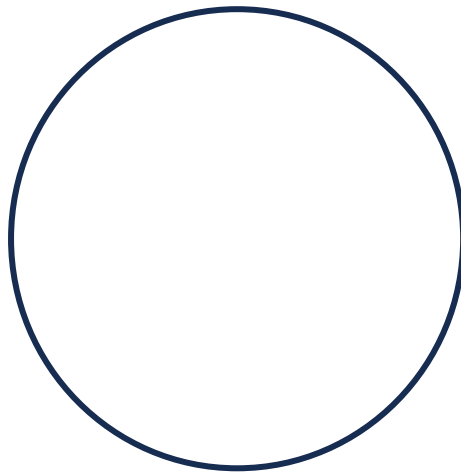
Certifiable skill Exercise – Acid fast Staining MI 1.10, 7.5

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Acid fast staining

Case study:

Aim:



Observation:

Inference:

Example:

Feedback of the facilitator

Signature of the facilitator

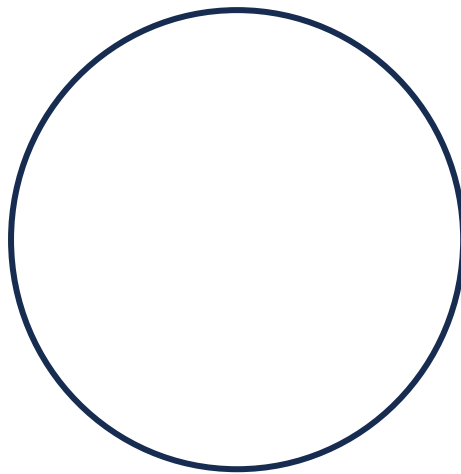
Certifiable skill Exercise – Acid fast Staining MI 1.10, 7.5

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Acid fast staining

Case study:

Aim:



Observation:

Inference:

Example:

Feedback of the facilitator

Signature of the facilitator

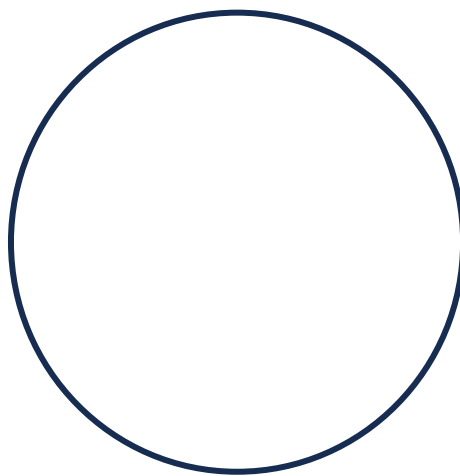
Certifiable skill Exercise – Acid fast Staining MI 1.10, 7.5

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Acid fast staining

Case study:

Aim:



Observation:

Inference:

Example:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Acid fast staining	
Type of skill:	MI 1.10, 7.5 – i) Perform Acid Fast Staining ii) Identify the causative agents of Infectious Diseases
Type of Assessment:	OSPE: Perform Acid Fast Staining DOPS: Identify, draw and label the causative agent
Student's performance:	OSPE: Performs correctly / incorrectly DOPS: i) Identifies correctly / incorrectly ii) Draws correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI1.10, 7.5. Date of Certification: Signature of the facilitator:	

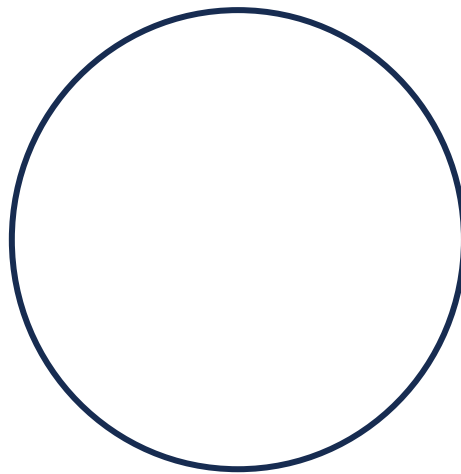
Certifiable skill Exercise – Acid fast Staining MI 1.10, 7.5 (Remedial)

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Acid fast staining

Case study:

Aim:



Observation:

Inference:

Example:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Acid fast staining	
Type of skill:	MI 1.10, 7.5 – i) Perform Acid Fast Staining ii) Identify the causative agents of Infectious Diseases
Type of Assessment: (Remedial)	OSPE: Perform Acid Fast Staining DOPS: Identify, draw and label the causative agent
Student's performance:	OSPE: Performs correctly DOPS: i) Identifies correctly ii) Draws correctly
Decision of the faculty	Completed

Certification of skill:

Certified that the learner has successfully completed the certification of the Skill for competency MI1.10, 7.5.

Date of Certification:

Signature of the facilitator:

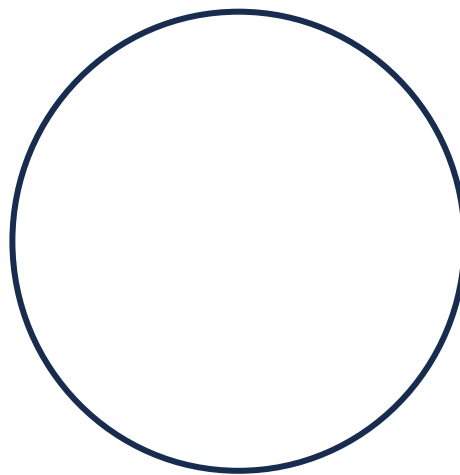
Certifiable skill Exercise – Stool Microscopy MI 1.10, 4.4

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Stool Microscopy

Case study:

Aim:



Points of identification:

Inference:

Feedback of the facilitator

Signature of the facilitator

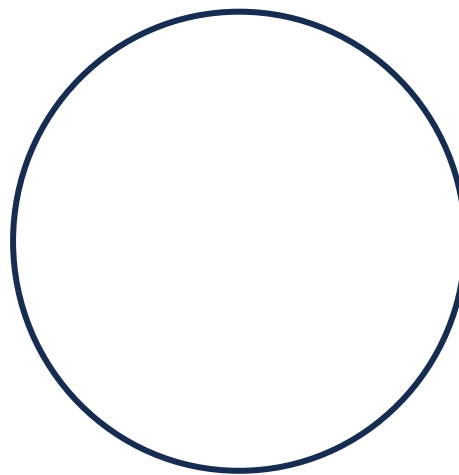
Certifiable skill Exercise – Stool Microscopy MI 1.10, 4.4

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Stool Microscopy

Case study:

Aim:



Points of identification:

Inference:

Feedback of the facilitator

Signature of the facilitator

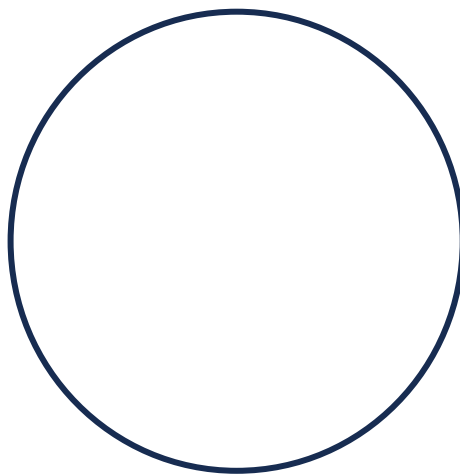
Certifiable skill Exercise – Stool Microscopy MI 1.10, 4.4

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Stool Microscopy

Case study:

Aim:



Points of identification:

Inference:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Stool Microscopy	
Type of skill:	MI 1.10, 4.4 - Identify the causative agents of Infectious Diseases
Type of Assessment:	DOPS: Identify, draw and label the given parasite
Student's performance:	DOPS: i) Identifies correctly / incorrectly ii) Draws correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.10. 4.4, Date of Certification: Signature of the facilitator:	

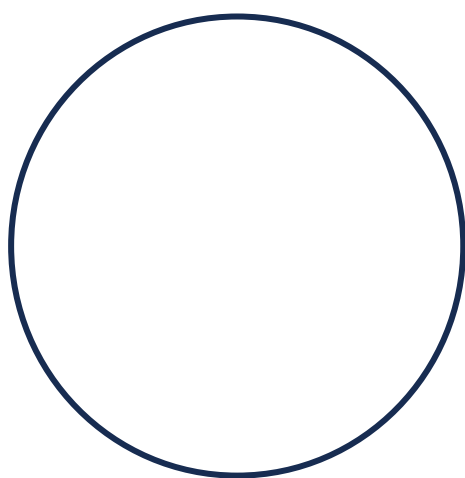
Certifiable skill Exercise – Stool Microscopy MI 1.10, 4.4 (Remedial)

Date:

Objective: Perform and identify the causative agents of Infectious Diseases by Stool Microscopy

Case study:

Aim:



Points of identification:

Inference:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Stool Microscopy	
Type of skill:	MI 1.10, 4.4 - Identify the causative agents of Infectious Diseases
Type of Assessment: (Remedial)	DOPS: Identify, draw and label the given parasite
Student's performance:	DOPS: i) Identifies correctly ii) Draws correctly
Decision of the faculty	Completed
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.10, 4.4. Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Hand hygiene MI 10.3**Objective: Demonstrate Infection control practices: hand hygiene**

Case study:

Checklist:

Date:

Feedback

Signature of the facilitator

Date:

Feedback

Signature of the facilitator

Date:

Feedback

Signature of the facilitator

Skill Certification- Hand Hygiene	
Type of skill:	MI 10.3- Demonstrate Infection control practices: hand hygiene
Type of Assessment:	OSPE: Performs hand hygiene
Student's performance:	OSPE: Performs correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 10.3 Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Hand hygiene MI 10.3 (Remedial)
Date:
Objective: Demonstrate Infection control practices: hand hygiene
Case study:
Checklist:
Feedback of the facilitator
Signature of the facilitator

Skill Certification- Hand Hygiene	
Type of skill:	MI 10.3 - Demonstrate Infection control practices: hand hygiene
Type of Assessment: (Remedial)	OSPE: Performs hand hygiene
Student's performance:	OSPE: Performs correctly
Decision of the faculty	Completed

Certification of skill:

Certified that the learner has successfully completed the certification of the Skill for competency MI 10.3

Date of Certification:

Signature of the facilitator:

Certifiable skill Exercise- Donning & Doffing of Personal Protective Equipments MI 10.3

Objective: Demonstrate Infection control practices: Donning & Doffing of Personal Protective equipments

Case study:

Checklist:

Date:	Date:	Date:
Feedback	Feedback	Feedback
Signature of the facilitator	Signature of the facilitator	Signature of the facilitator

Skill Certification- Personal Protective Equipments	
Type of skill:	MI 10.3 - Demonstrate Infection control practices: Personal Protective equipments
Type of Assessment:	OSPE: Performs Donning and Doffing of Personal Protective equipments
Student's performance:	OSPE: Performs correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 10.3. Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Donning & Doffing of Personal Protective Equipments MI 10.3 (Remedial)

Date:

Objective: Demonstrate Infection control practices: Donning & Doffing of Personal Protective equipments

Case study:

Checklist:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Personal Protective Equipments	
Type of skill:	MI 10.3- Demonstrate Infection control practices: Personal Protective equipments
Type of Assessment: (Remedial)	OSPE: Performs Donning and Doffing of Personal Protective equipments
Student's performance:	OSPE: Performs correctly
Decision of the faculty	Completed

Certification of skill:

Certified that the learner has successfully completed the certification of the Skill for competency MI 10.3.

Date of Certification:

Signature of the facilitator:

Certifiable skill Exercise- Segregation of Biomedical waste MI 10.3

Objective: Demonstrate Infection control practices: Segregation of Biomedical Waste

Case study:

Checklist:

Date:

Feedback

Signature of the facilitator

Date:

Feedback

Signature of the facilitator

Date:

Feedback

Signature of the facilitator

Skill Certification- Segregation of Biomedical waste	
Type of skill:	MI 10.3 - Demonstrate Infection control practices: Segregation of Biomedical waste
Type of Assessment:	OSPE: Performs Segregation of Biomedical waste
Student's performance:	OSPE: Performs correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 10.3. Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Segregation of Biomedical waste MI 10.3 (Remedial)

Date:

Objective: Demonstrate Infection control practices: Segregation of Biomedical Waste

Case study:

Checklist:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Segregation of Biomedical waste	
Type of skill:	MI 10.3 - Demonstrate Infection control practices: Segregation of Biomedical waste
Type of Assessment:	OSPE: Performs Segregation of Biomedical waste
Student's performance:	OSPE: Performs correctly
Decision of the faculty	Completed
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 10.3. Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Blood culture collection MI 1.6, 3.3

Objective: Demonstrate the appropriate method of collection and transport of blood for culture for the detection of microbial agents in a case of sepsis including instructions to be given to patients before sample collection.

Case study:

Checklist:

Date:	Date:	Date:
Feedback	Feedback	Feedback
Signature of the facilitator	Signature of the facilitator	Signature of the facilitator

Skill Certification- Blood culture collection	
Type of skill:	MI 1.6, 3.3 - Demonstrate the appropriate method of collection and transport of blood for culture for the detection of microbial agents in a case of sepsis including instructions to be given to patients before sample collection.
Type of Assessment:	OSPE: Perform blood collection for blood culture
Student's performance:	OSPE: Performs correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.6, 3.3. Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Blood culture collection MI 1.6, 3.3 (Remedial)

Date:

Objective: Demonstrate the appropriate method of collection and transport of blood for culture for the detection of microbial agents in a case of sepsis including instructions to be given to patients before sample collection.

Case study:

Checklist:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Blood culture collection	
Type of skill:	MI 1.6, 3.3 - Demonstrate the appropriate method of collection and transport of blood for culture for the detection of microbial agents in a case of sepsis including instructions to be given to patients before sample collection.
Type of Assessment:	OSPE: Perform blood collection for blood culture
Student's performance:	OSPE: Performs correctly
Decision of the faculty	Completed
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.6, 3.3. Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Nasopharyngeal swab collection MI 1.6

Objective: Demonstrate the appropriate method of collection and transport of Nasopharyngeal swab for the detection of microbial agents including instructions to be given to patients before sample collection.

Case study:

Checklist:

Date:	Date:	Date:
Feedback	Feedback	Feedback
Signature of the facilitator	Signature of the facilitator	Signature of the facilitator

Skill Certification- Nasopharyngeal swab collection	
Type of skill:	MI 1.6- Demonstrate the appropriate method of collection and transport of Nasopharyngeal swab for the detection of microbial agents including instructions to be given to patients before sample collection.
Type of Assessment:	OSPE: Performs Nasopharyngeal swab collection
Student's performance:	OSPE: Performs correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.6 Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Nasopharyngeal swab collection MI 1.6 (Remedial)

Date:

Objective: Demonstrate the appropriate method of collection and transport of Nasopharyngeal swab for the detection of microbial agents including instructions to be given to patients before sample collection.

Case study:

Checklist:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Nasopharyngeal swab collection	
Type of skill:	MI 1.6- Demonstrate the appropriate method of collection and transport of Nasopharyngeal swab for the detection of microbial agents including instructions to be given to patients before sample collection.
Type of Assessment:	OSPE: Performs Nasopharyngeal swab collection
Student's performance:	OSPE: Performs correctly
Decision of the faculty	Completed
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.6 Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Wound swab collection MI 1.6

Objective: Demonstrate the appropriate method of collection and transport of wound swab for the detection of microbial agents including instructions to be given to patients before sample collection.

Case study:

Checklist:

Date:	Date:	Date:
Feedback	Feedback	Feedback
Signature of the facilitator	Signature of the facilitator	Signature of the facilitator

Skill Certification- Wound swab collection	
Type of skill:	MI 1.6 - Demonstrate the appropriate method of collection and transport of wound swab for the detection of microbial agents including instructions to be given to patients before sample collection.
Type of Assessment:	OSPE: Performs wound swab collection
Student's performance:	OSPE: Performs correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.6. Date of Certification: Signature of the facilitator:	

Certifiable skill Exercise- Wound swab collection MI 1.6 (Remedial)
Date:
Objective: Demonstrate the appropriate method of collection and transport of wound swab for the detection of microbial agents including instructions to be given to patients before sample collection.
Case study:
Checklist:
Feedback of the facilitator
Signature of the facilitator

Skill Certification- Wound swab collection	
Type of skill:	MI 1.6 - Demonstrate the appropriate method of collection and transport of wound swab for the detection of microbial agents including instructions to be given to patients before sample collection.
Type of Assessment:	OSPE: Performs wound swab collection
Student's performance:	OSPE: Performs correctly
Decision of the faculty	Completed
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.6. Date of Certification: Signature of the facilitator:	

**Certifiable skill Exercise- Urine sample collection from an indwelling catheter
MI 1.6**

Objective: Demonstrate the appropriate method of collection and transport of urine sample from a patient with indwelling catheter for the detection of microbial agents including instructions to be given to patients before sample collection.

Case study:

Checklist:

Date:	Date:	Date:
Feedback	Feedback	Feedback
Signature of the facilitator	Signature of the facilitator	Signature of the facilitator

Skill Certification- Urine sample collection from an indwelling catheter	
Type of skill:	MI 1.6 - Demonstrate the appropriate method of collection and transport of urine sample from a patient with indwelling catheter for the detection of microbial agents including instructions to be given to patients before sample collection
Type of Assessment:	OSPE: Performs urine sample collection from an indwelling catheter
Student's performance:	OSPE: Performs correctly / incorrectly
Decision of the faculty	Completed / Remedial class suggested
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.6. Date of Certification: Signature of the facilitator:	

**Certifiable skill Exercise- Urine sample collection from an indwelling catheter
MI 1.6 (Remedial)**

Date:

Objective: Demonstrate the appropriate method of collection and transport of urine sample from a patient with indwelling catheter for the detection of microbial agents including instructions to be given to patients before sample collection.

Case study:

Checklist:

Feedback of the facilitator

Signature of the facilitator

Skill Certification- Urine sample collection from an indwelling catheter	
Type of skill:	MI 1.6 - Demonstrate the appropriate method of collection and transport of urine sample from a patient with indwelling catheter for the detection of microbial agents including instructions to be given to patients before sample collection
Type of Assessment:	OSPE: Performs urine sample collection from an indwelling catheter
Student's performance:	OSPE: Performs correctly
Decision of the faculty	Completed
Certification of skill: Certified that the learner has successfully completed the certification of the Skill for competency MI 1.6. Date of Certification: Signature of the facilitator:	

4(B) AETCOM Competencies

The “Indian Medical Graduate” (IMG) shall possess requisite knowledge, skills, attitudes, values and responsiveness, so that he or she may function appropriately and effectively as a doctor of first contact of the community while being globally relevant. In order to fulfill this goal, the IMG must be able to function in the following ROLES appropriately and effectively:

1. Clinician who understands and provides preventive, promotive, curative, palliative and holistic care with compassion.
2. Leader and member of the health care team and system with capabilities to collect, analyse, synthesize and communicate health data appropriately.
3. Communicator with patients, families, colleagues and community.
4. Lifelong learner committed to continuous improvement of skills and knowledge.
5. Professional, who is committed to excellence, is ethical, responsive and accountable to patients, community and profession.

Note:

1. This section includes academic mile stones attained in AETCOM learning. The learner shall be assigned a specific learning objective for each session.
2. The learner shall be given an assignment based on the AETCOM topics of the curriculum.
3. They shall record a detailed synopsis of the skill learnt in this section.
4. The completion of such activity shall be recorded in this section by the learner and signed by the facilitator

Competencies	Topic
AETCOM module 2.1	The foundation of communications- 2
AETCOM module 2.8	What does it mean to be family member of a sick patient?
MI 1.7	Discuss the attitude & behaviors that portray respect & demonstrate respect for patient samples sent to the laboratory for performance of laboratory tests in the detection of microbial agents
MI 1.8	Discuss and demonstrate effective communication skills with patients, relatives and clinicians during sample collection and pre/post test counselling
MI 1.9	Discuss and demonstrate confidentiality pertaining to patient identity in laboratory results

Module 2.1: The foundation of communications- 2

Date:

Objective: Demonstrate ability to communicate to patients in a patient, respectful, non-threatening, non- judgmental and empathetic manner

Summary of the concept learnt:

Reflection:

Feedback of the facilitator

Signature of the facilitator

Module: 2.8: What does it mean to be family member of a sick patient?

Date:

Objective: Demonstrate empathy in patient encounters

Summary of the concept learnt:

Reflection:

Feedback of the facilitator

Signature of the facilitator

MI 1.7: Respect for patient samples sent to the laboratory

Date:

Objective: Discuss the attitude & behaviors that portray respect & demonstrate respect for patient samples sent to the laboratory for performance of laboratory tests in the detection of microbial agents

Summary of the concept learnt:

Reflection:

Feedback of the facilitator

Signature of the facilitator

MI 1.8: Communication skills

Date:

Objective: Discuss and demonstrate effective communication skills with patients, relatives and clinicians during sample collection and pre/ post-test counselling

Summary of the concept learnt:

Reflection:

Feedback of the facilitator

Signature of the facilitator

MI 1.9: Confidentiality pertaining to patient identity

Date:

Objective: Discuss and demonstrate confidentiality pertaining to patient identity in laboratory results

Summary of the concept learnt:

Reflection:

Feedback of the facilitator

Signature of the facilitator

4(C) Case- based Learning

Note:

1. This section includes academic mile stones attained through Case- based learning
2. The learner shall make observation entries as mandated in the record book
 - Model exercises: Clinical Case scenario pertaining to Bacteriology, Immuno-serology, Parasitology, Virology, Mycology, interpretation of antimicrobial susceptibility testing, request writing etc...

No.	Date	Content	Page no.

No.	Date	Content	Page no.

Case-based Learning: Case study 1
Date:
Topic
Case history:
Probable diagnosis:
Discussion:
Feedback of the facilitator
Signature of the facilitator

Case-based Learning: Case study 11
Date:
Topic
Case history:
Probable diagnosis:
Discussion:
Feedback of the facilitator
Signature of the facilitator

Case-based Learning: Case study 21
Date:
Topic
Case history:
Probable diagnosis:
Discussion:
Feedback of the facilitator
Signature of the facilitator

Case-based Learning: Case study 23
Date:
Topic
Case history:
Probable diagnosis:
Discussion:
Feedback of the facilitator
Signature of the facilitator

4(D) Research Project

Note:
The research article should be written in the IMRaD format.
(Introduction, Methodology, Results and Discussion)

The research article should be written in the IMRaD format.
(Introduction, Methodology, Results and Discussion)

ICMR - STS Project / Others
Date:
Topic:
Ethical clearance reference no. (if any)

Reference:
Feedback of the facilitator
Signature of the facilitator