Second MBBS (from October 2020) Subject: Microbiology Theory / Practical

Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. (Vol. 1; page nos. 205-227)

Total Teaching hours: 190
 A. Lectures(hours): 70

B. Self-directed learning (hours):- 10

C. Clinical Postings (Hours): NA

D. Small group teachings/tutorials/Integrated teaching / Practical's (hours): 110

Competency Nos.	Topics and Subtopics
MI1.1	Introduction to Microbiology and historical aspects. Introduction to bacteria, viruses & Bacteriophages, fungi, parasites, host parasite relationship, normal flora.
MI1.2	Morphology of bacteria, microscopy, Gram staining, Z-N staining, stool examination- routine microscopy
MI1.3	Types of infection,_source/ reservoir of infection, modes of transmission, pathogenicity, definition of prevalence, incidence, types of infectious diseases (endemic, epidemic, pandemic, sporadic)
MI1.4	Methods of sterilization and disinfection, their application in the laboratory, clinical and surgical practice, demonstration of working of autoclave
MI1.5	Choose the most appropriate method of sterilization and disinfection to be used in specific situations in the laboratory, in clinical and surgical practice
MI1.6	Mechanism of drug resistance, methods of antibiotic susceptibility testing, definition of MIC, MBC, break points, interpretation of antibiotic susceptibility test report, antimicrobial audit/use, antibiotic policy, antimicrobial stewardship.
MI1.7	Immunity
MI1.8	Antigen, antibodies, immune response and complement, antigen antibody reactions
MI1.9	Vaccines, universal vaccination program, immunoprophylaxis, immunotherapy

Competency Nos.	Topics and Subtopics
MI1.10	Hypersensitivity, autoimmune disorders and immunodeficiency states, laboratory methods used in their detection
MI1.11	Immunological mechanisms of transplantation and tumor immunity
MI2.1	Rheumatic Heart Disease-definition, etiological agent, pathogenesis, clinical features and laboratory diagnosis. Streptococci
MI2.2	Infective endocarditis- classification, etiological agents, pathogenesis, clinical features and laboratory diagnosis. Streptococcus viridans, Streptococcus mutans, HACEK
MI2.3	Blood collection for culture, throat swab collection, blood culture, ASO test, interpretation of the test
MI2.4	Anemia-definition, etiological agents, pathogenesis, clinical features and laboratory diagnosis. Hookworm, Trichuris trich <u>i</u> ura,
MI2.5	Kala_azar, malaria, filariasis and other common parasites prevalent in India Schistosomes, Fasciolopsis buski, Paragonimus westermani,
MI2.6	Peripheral smear staining for malaria, Identify the slide for filarial
MI2.7	HIV- epidemiology, the etio- pathogenesis, evolution, complications, opportunistic infections, diagnosis, prevention and the principles of management of HIV
MI3.1	Microbial agents causing diarrhea and dysentery- epidemiology, morphology, pathogenesis, clinical features and laboratory diagnosis of Shigella, Campylobacter, Vibrio, salmonella, E. hystolytica, Giardia, B. coli, H. nana, Taenia, Intestinal nematodes, Norwalk virus and Rota virus, Coronavirus
MI3.2	Stool examination-routine microscopy, hanging drop preparation,
MI3.3	Septicemia, Enteric fever and Food poisoning Salmonella -Morphology, pathogenesis, clinical features, laboratory diagnosis.
MI3.4	Blood culture, Widal test, Stool culture, Clot culture, Interpretation of the reports
MI3.5	Food poisoning- etiological agents, pathogenesis, clinical features and laboratory diagnosis. Staphylococci, Cl. botulinum, Bacillus cereus
MI3.6	Acid peptic disease (APD)- etio-pathogenesis, clinical course laboratory diagnosis and management H. pylori
MI3.7	Viral hepatitis- etiological agents, pathogenesis, clinical features and laboratory diagnosis. Hepatitis A, B, C, D, E, Cytomegalovirus, Epstein-Barr virus, HSV, VZV, Measles, Rubella
MI3.8	Serological tests for the laboratory diagnosis of viral hepatitis, viral markers, interpretation of reports

Competency Nos.	Topics and Subtopics								
MI4.1	Anaerobic infections- etiological agents, pathogenesis, clinical features and laboratory diagnosis. Spore bearing and non-spore bearing anaerobes, Clostridia								
MI4.2	Bone and joint infections- etio-pathogenesis, clinical features and laboratory diagnosis. Prosthetic joint infections, Staphylococci, Acinetobacter								
MI4.3	Skin and soft tissue infections- etiological agents, pathogenesis, clinical features and laboratory diagnosis. Superficial, cutaneous and sub-cutaneous fungal infections, Mycetoma, Leprosy, Herpes.								
MI5.1	Meningitis- etiological agents, pathogenesis, clinical features and laboratory diagnosis. Meningococci, Leisteria, H. influenzae, Cryptococcus neoformans								
MI5.2	Encephalitis- etiological agents, pathogenesis, clinical features and laboratory diagnosis. Primary amoebic meningo-encephalitis, viral encephalitis, Japanese encephalitis, Rabies, Aseptic meningitis -ECHO viruses								
MI5.3	laboratory diagnosis of meningitis, interpretation of laboratory reports								
MI6.1	Upper respiratory tract infections- etiological agents,_pathogenesis, clinical features and laboratory diagnosis. Orthomyxo virus, Paramyxo virus, Adenovirus, Rhinovirus, Diphtheria, Bordetella and Lower respiratory tract infections-etiological agents, pathogenesis, clinical features and laboratory diagnosis Streptococcus pneumonia, Mycobaterium tuberculosis,								
MI6.2	Gram staining- Interpretation of results								
MI6.3	Z-N staining and Fluorescent staining- Interpretation of results								
MI7.1	Genitourinary infections- etiological agents, pathogenesis, clinical features and laboratory diagnosis. Non-gonococcal urethritis, Trichomoniasis, Bacterial vaginosis								
MI7.2	Sexually transmitted infections- etiological agents, pathogenesis, clinical features and laboratory diagnosis. Syphilis, Gonorrhea, Herpes, Calymmatobacterium, HPV, Molluscum contagiosum								
MI7.3	Urinary tract infections- etiological agents, pathogenesis, significant bacteruria, clinical features and laboratory diagnosis. Ecoli, Klebsiella, Proteus								
MI8.1	Zoonotic diseases- etiological agents, mode of transmission, pathogenesis, clinical features laboratory diagnosis and prevention-Brucella, Yesinia, Leptospira, Anthrax and Arbo viruses, Hydatid disease								
MI8.2	Opportunistic infections- etio-pathogenesis, factors contributing to the occurrence of OI, laboratory diagnosis - Toxoplasma, Pneumocystis jiroveci, Cryptospora, Isospora,								
MI8.3	Oncogenic viruses in the evolution of virus associated malignancy								

Competency Nos.	Topics and Subtopics								
MI8.5	Healthcare Associated Infections (HAI)- definition, types, factors that contribute to the development of HAI and the methods for prevention- Pseudomonas, MOTT, Antibiotic associated diarrhea								
MI8.6	Hand hygiene, bio medical waste management, environmental hygiene, use of equipments, respiratory hygiene and cough etiquette, PEP, spill management, vaccination								
MI8.7	Infection control practices and use of Personal Protective Equipments (PPE)								
MI8.8	Microbiology of food, water and air								
MI8.9	Methods of sample collection and transport								
MI8.10	Collection and transport of specimens								
MI8.11	Respect for patient samples sent to the laboratory for performance of laboratory tests								
MI8.12	Confidentiality pertaining to patient identity in laboratory results								
MI8.13	Appropriate laboratory test in the diagnosis of the infectious disease								
MI8.14	Confidentiality pertaining to patient identity in laboratory results								
MI8.15	Interpret the results of the laboratory tests used in diagnosis of the infectious disease								
MI8.16	National Health Programs in the prevention of common infectious diseases- Vector borne diseases control program, Revised National Tuberculosis Control Program (RNTCP), National AIDS Control Program, National Leprosy Eradication Program, Pulse Polio Program- Poliovirus								
Miscellaneous topics - may be covered in theory or SGT	Burkholderia, Mycoplasma, Borrelia, Actinomyses & Nocardia, Rickettsia, Bortonella, Ehrlichia, Chlamydiae, Ebola virus, Slow viruses								

AETCOM Module no.	Topics and Subtopics
2.5	Bioethics-patient autonomy and decision making
2.6	Bioethics-patient autonomy and decision making
2.7	Bioethics-patient autonomy and decision making

Revision

Paper wise distribution of topics for Prelim & MUHS Annual Examination Year: Second MBBS Subject: MICROBIOLOGY

Paper	Section	Topics
I	Α	MCQs on all topics of the paper I
		General Microbiology and Immunity
		CVS and Blood
		Gastrointestinal and hepatobiliary system
		AETCOM Module No- 2.5,2.6 and 2.7
II	Α	MCQs on all topics of the paper II
		Musculoskeletal system, skin and soft tissue infection
		Central nervous system infections
		Respiratory tract infections
		Genitourinary and sexually transmitted infections
		Zoonotic diseases and miscellaneous

Second MBBS Internal Assessment Subject: Microbiology

Applicable w.e.f October 2020 onwards examination for batches admitted from June 2019 onwards

	I-Exam	(After 3 months	s , Jan)	II-Exam	(After 7 months	s, May)	Prelims (July)			
Phase	Practical (Including 10 Theory Marks for		Total Marks	Theory	Practical Including 10 Marks for Journal & Log Book	Total Marks	Theory	Practical	Total Marks	
Second MBBS	50	50	100	50	50	100	Paper 1 -100 Paper 2 -100	100	300	

- 1. There will be 3 internal assessment examinations in Microbiology. The structure of the internal assessment theory examinations should be similar to the structure of University examinations.
- 2. It is mandatory for the students to appear for all the internal assessment examinations.
- 3. First internal assessment examination will be held in January, second internal assessment examination will be held in May and third internal assessment examination will be held in July.
- 4. A student who has not taken minimum required number of tests for Internal Assessment each in theory and practical will not be eligible for University examinations.
- 5. There will be only one additional examination for absent students (due to genuine reason) after approval by the Institutional Grievances Committee. It should be taken after preliminary examination and before submission of internal assessment marks to the University.
- 6. Internal assessment marks for theory will be out of 300 and practical will be out of 200.

- 7. Reduce total theory internal assessment to 40 marks and total practical internal assessment to 40 marks.

 Students must secure at least 50% marks of the total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) to be eligible for appearing University examination
- 8. Conversion Formula for calculation of marks in internal assessment examinations

	First	Second	Third IA	Total	Internal	Eligibility to	appear for final		
	IA	IA	(Prelim)		assessment	University examination			
					marks: Conversion	(after conve	rsion out of 40)		
					formula	(40% separa	ately in Theory &		
					(out of 40)	Practical, 50% Combined)			
Theory	50	50	200	300	Total marks	16	Total of Theory		
					obtained 7.5	(Minimum)	Total of Theory + Practical Must be		
Practical	50	50	100	200	Total marks	16	40.		
					obtained 05	(Minimum)	70.		

While preparing Final Marks of Internal Assessment, the rounding-off marks shall done as illustrated in following table

Internal Assessment Marks	Final rounded marks
15.01 to 15.49	15
15.50 to 15.99	16

- 9. Internal assessment marks will reflect as separate head of passing at the summative examination.
- 10. Internal assessment marks will not to be added to marks of the University examinations and will be shown separately in mark list.

Second MBBS Practical Mark's Structure Internal Assessment Examinations

(Applicable w.e.f October 2020 onwards examination for batches admitted from June 2019 onwards)

	Subject : MICROBIOLOGY Practical											
Seat			I Term		II Term							
No.	Gram Stain	P.S. for M.P.	Journal/Log book	Viva	Total	Z-N stain	Stool - Routine microscopy	Journal/Log book	Viva	Total		
Max. Marks	10	10	10	20	50	10	10	10	20	50		

Second MBBS Practical Mark's Structure (Prelim)

Applicable w.e.f October 2020 onwards examination for batches admitted from June 2019 onwards

Subject: MICROBIOLOGY											
	Practical							Oral/Viva			
Seat No.	Gram/ Z-N staining	P.S. for M.P./ Stool –routine microscopy	Use of PPE/ Hand hygiene		Journal/ Log book Total		Viva-I	ı-l Viva-II To		Practical & Oral (F + I)	
Max. Marks			10	20	10	70	15	15	30	100	

Second MBBS Practical Mark's Structure (M.U.H.S Examination)

Applicable w.e.f October 2020 onwards examination for batches admitted from June 2019 onwards

	Subject: MICROBIOLOGY										
	Practical								Oral/Viva		
Seat	Gram/ Z-N staining	STACE FOLITION	Use of PPE/ Hand hygiene	Interpretation of reports	Journal/ Log book			Viva-II		Practical & Oral	
No.						Total	Viva-I		Total	(F + I)	
	Α	В	С	D	Е	F	G	Н	ı	J	
Max. Marks	15	15	10	20	10	70	15	15	30	100	

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK FORMAT / SKELETON OF QUESTION PAPER

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3.	Short A	nswer	Questions		(An:	swer Any 3	out o	f 4)				(7x3=21)
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4.	Structured Long Answer Questions (Compulsory) (12x1=12)							(12x1=12)				
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	a)											
_	Chart A	action	Questions		(Ano	swer Any 4	out of	F 5)				(7x4=28)
5.					(AllS	swei Ally 4	out 01	3)				(/Д-20)
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MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK FORMAT / SKELETON OF QUESTION PAPER

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Instructions: 1) Use blue/black ball point pen only. 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means. 3) All questions are compulsory. 4) The number to the right indicates full marks. 5) Draw diagrams wherever necessary. 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question p Students cannot claim that the Question is out of syllabus. As It is only for the placement sake, the distribution has done. 7) Use a common answerbook for all sections.						paper.	:																	
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5.	Structu	red L	ong Ar	iswer (Questio	ons	(Con	npuls	ory)												(12x	x1=12))

Competency Based Medical Education

Year: Second MBBS
Subject: Microbiology
Learning Resource Material

Books recommended:

- 1. Textbook of Microbiology R. Ananthanarayan C. K. Jayaram Panikar
- 2. A Textbook of Microbiology P. Chakraborty
- 3. Textbook of Medical Microbiology Rajesh Bhatia & Itchpujani
- 4. Textbook of Medical Microbiology Arora and Arora
- 5. Textbook of Medical Parasitology C. K. Jayaram Panikar
- 6. Textbook of Medical Parasitology Arora and Arora
- 7. Textbook of Medical Parasitology S.C.Parija
- 8. Microbiology in clinical practice D. C. Shanson
- 9. A Textbook of Parasitology Dr. R.P. Karyakarte and Dr. A.S. Damle
- 10. Essentials of Medical Microbiology Apurba shashtry

Reference books:

- 1. Mackie McCartney practical Medical Microbiology- Colle JG, Fraser AG
- 2. Principles of Bacteriology, Virology & Immunology vol. 1, 2, 3, 4, 5-Topley Wilsons
- 3. Medical Mycology (Emmons)- Kwon Chung
- 4. Review of Medical Microbiology (Lange)- Jawetz
- 5. Immunology- Weir DM
- 6. Medical Microbiology- David Greenwood, Richard Stack, John Pentherer
- 7. Parasitology- KD Chatterjee
- 8. Medical virology- Timbury MC
- 9. Mackie McCartney Medical, Microbiology vol.1- Duguid JP
- 10. Microbial infections- Marmion BP, Swain RHA
- 11. Bailey & Scott's Diagnostic Microbiology
- 12. Textbook of Mycology Jagdish Chander

Maharashtra University of Health Sciences Nashik



MICROBIOLOGY LOGBOOK

For
PHASE II MBBS STUDENTS
AS PER
COMPETENCY BASED CURRICULUM

First Edition: 2020

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Preface

The Medical Council of India has revised the undergraduate medical education curriculum so that the Indian Medical Graduate (IMG) is able to recognize "Health for all" as a national goal. He/she should also be able to fulfil his/her societal obligations. The revised curriculum has specified the competencies that a student must attain and clearly defined teaching learning strategies for the same. With this goal in mind, early clinical exposure, integrated teaching, skill development, AETCOM and self-directed learning have been introduced. There would be emphasis on communication skills, basic clinical skills and professionalism. There is a paradigm shift from the traditional didactic classroom-based teaching to learning environments where there is emphasis on learning by exploring, questioning, applying, discussing, analysing, reflecting, collaborating and doing. The recognition of this need is enshrined by a greatly enhanced allocation of time to these methods and also the assessment techniques. With this view in mind the log book has been designed as per the guidelines of competency Based curriculum.

Name of the College

Admission Year :	
<u>CERTIFICATE</u>	
This is to certify that,	
Mr/Ms	
Roll No has satisfactorily attended/completed all assignments mentione in this logbook as per the guidelines prescribed by Medical Council of India, for Phase II MBBS Competency Based Curriculum in the subject of Microbiology.	
Date:// Place:	
Teacher-in-Charge Professor and Head Department of Microbiology	

Instructions

- This logbook is prepared as per the guidelines of MCI for implementation of Competency based curriculum for Phase II MBBS students in the subject of Microbiology.
- 2) Students are instructed to keep their logbook entries up to date.
- 3) Students are expected to write minimum 1 reflections on Self-Directed Learning (SDL).
- 4) Students also have to write reflections on AETCOM Modules 2.5, 2.6 and 2.7.
- 5) Reflections should be structured using the following guiding questions:
- What happened? (What did you learn from this experience)
- So what? (What are the applications of this learning)
- What next? (What knowledge or skills do you need to develop so that you can handle

this type of situation?)

- 6) The logbook assessment will be based on multiple factors like
- Attendance
- Active participation in the sessions,
- Timely completions
- Quality of write up of reflections
- Overall presentation

INDEX

Sr. No	Description	Page No's	Status	Signature of Teacher
			Complete/ Incomplete	
1	Self-Directed Learning, skill assessment, participation in Group discussions			
2	*AETCOM Module No. 2.5, 2.6, 2.7			
3	Attendance Records			
4	Records of Internal Assessment			

^{*}AETCOM – Competencies for IMG, 2018, Medical Council of India.

Section 1. Self-Directed Learning, skill assessment, participation in Group discussions

Sr. No	Self-Directed Learning, skill assessment, participation in Group discussions	Date	Signature of Teacher

Sr. No	Self-Directed Learning, skill assessment, participation in Group discussions	Date	Signature of Teacher

Reflection on Self-directed learning Experience

Topic:	Date:
	Signature of Teacher-in- charge

Reflection on Self-directed learning Experience

Topic:	Date:
	Signature of Teacher-in- charge

Section 2

Reflection on AETCOM Module - 2.5

Topic:	Date:

Signature of Teacher-in- charge

Reflection on AETCOM Module - 2.6

Topic:	Date:
	Signature of Teacher-in- charge

Reflection on AETCOM Module - 2.7

Topic:	Date:
	Signature of Teacher-in- charge

Section 3

Section 3A: Attendance Record of the Student

S. No	Term	Theory (%)	Practical (%)	Signature of student	Signature of Teacher
Α	I Term				
В	II Term				
С	III Term				
D	Ovei	rall attend	ance		

Note: Above information is for the benefit of students and parents. In case of any discrepancy departmental record will be treated as final.

SECTION 3B: Details of attending extra classes [For poor attendance (if any)]

S. No	Date	Period	Total hours	Signature of Student	Signature of Teacher
		Total hours			

Note: Above information is for the benefit of students and parents. In case of any discrepancy departmental record will be treated as final.

Section 4 Records of Internal Assessment Examinations

Sr. No	Exam no	Theory	Practical including Viva	Signature of student	Signature of Teacher
1	I Internal Assessment	/50	/50		
2	II Internal Assessment	/50	/50		
3	III Internal Assessment	/200	/100		
4	Internal assessment (1+2+3)	/100	/100		
5	Betterment exam (If Any)	/200	/100		
6	Final Internal Assessment	/100	/100		

Note: Above information is for the benefit of students and parents. In case of any discrepancy departmental record will be treated as final.