Course Content

Second MBBS (from October 2020) Subject:

PHARMACOLOGY Theory / Practical

Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. (Vol. 1; page nos. 136-159)

1. Total Teaching hours: 230

2. A. Lectures(hours):80 B. Self directed learning (hours):-12

C. Clinical Postings (Hours): NA

D. Small group teachings/tutorials/Integrated teaching/Practicals (hours): 138

Competency Nos.	Topics & Subtopics			
PH1.1				
PH1.2				
PH1.3	Introduction to Pharmacology			
PH1.9				
PH1.11	Routes of drug administration			
PH1.4	Pharmacokinetics – Absorption, Distribution, Metabolism, Excretion			
PH1.5	Pharmacodynamics			
PH1.6	Adverse drug reactions —Types, mechanisms and precautions			
PH1.7	Adverse drug reactions –Types, mechanisms and precautions			
PH1.52	Principles of management of Poisoning			
PH1.8	Drug interactions- Mechanisms and clinical relevance			
PH1.59	Essential medicines, Fixed dose combinations Over the counter drugs Herbal medicines			
PH1.60	Pharmacogenomics, Pharmacoeconomics			
PH1.63	Drug Regulations			
PH1.64	Drug development, Good Clinical Practice			

Competency Nos.	Topics & Subtopics
PH1.10	Prescription writing
PH1.12	Factors modifying drug dose- Dose calculation 1 of 34

PH1.13	Pharmacology of Adrenergic drugs, Pharmacology of Anti adrenergic drugs			
PH1.14	Pharmacology of Cholinergic drugs, Pharmacology of Anticholinergic drugs			
PH1.15	Pharmacology of Skeletal muscle relaxants			
	Pharmacology of Histamine and antihistaminics,			
PH1.16	Pharmacology of Serotonin and drugs acting on serotonergic pathways, Pharmacotherapy of MigrainePharmacology			
1111.10	of NSAIDSPharmacotherapy of Gout and Rheumatoid arthritis			
PH1.17	Pharmacology of Local anaesthetics			
PH1.18	Pharmacology of General anaesthetics and Preanesthetic drugs			
	Pharmacology of Sedatives & hypnotics			
	Pharmacology of Antiepileptics			
	Pharmacology of Anti depressants and anti anxiety drugs			
PH1.19	Pharmacology of Antipsychotics and anti manic drugs			
	Pharmacology of Drugs used for neurodegenerative disorders			
	Pharmacology of Opioids			
PH1.20	— Pharmacology of Alcohol and alcohol poisoning			
PH1.21	Thatmacology of Alcohol and dicohol poisoning			
PH1.22	Dharmacology of drug dependence, drug abuse and Deaddiction			
PH1.23	Pharmacology of drug dependence, drug abuse and Deaddiction			
PH1.24	Pharmacology of Diuretics and antidiuretics			
	Pharmacology of coagulants and anticoagulants			
PH1.25	Pharmacology of antiplatelets			
1111.25	Pharmacology of thrombolytics and antifibrinolytics			
	Pharmacology of plasma expanders			
PH1.26	Pharmacology of Renin Angiotensin-Aldosterone system			
	Pharmacology of calcium channel blockers Pharmacology of			
PH1.27	other vasodilators and sympatholytics Pharmacotherapy of			
	Hypertension, Pharmacotherapy of Shock			

Competency Nos.	Topics & Subtopics					
	Pharmacology of Antianginal drugs					
PH1.28	Pharmacotherapy of IHD					
	Pharmacology of Drugs for PVD					
PH1.29	Pharmacology of Drugs used in CCF					
PH1.30	Pharmacology of Antiarrhythmics					
PH1.31	Pharmacology of Drugs for dyslipidemia					
PH1.32	Pharmacology of Drugs for bronchial asthma and COPD					
PH1.33	Pharmacology of Drugs for cough					
	Pharmacology of Drugs for acid peptic diseases					
PH1.34	Pharmacology of Antiemetics and prokinetics					
	Pharmacology of Drugs for diarrhea and constipation					
PH1.35	Pharmacotherapy of anemias					
	Pharmacology of Antidiabetic drugs Pharmacology of					
PH1.36	Drugs for thyroid dysfunction Pharmacology of Drugs					
	affecting calcium metabolism					
	Pharmacology of Estrogen and antiestrogens					
PH1.37	Pharmacology of Progestins and antiprogestins					
PH1.57	Pharmacology of Androgens and antiandrogens					
	Pharmacology of Anterior Pituitary hormones and their antagonists					
PH1.38	Pharmacology of Corticosteroids and antagonists					
PH1.39	Pharmacology of Hormonal contraceptives					
PH1.40	Pharmacotherapy of infertility and erectile dysfunction					
PH1.41	Pharmacology of Oxytocics and tocolytics					
	Introduction to Chemotherapy-General principles, Pharmacology of Sulfonamides and Timethoprim					
PH1.42	Pharmacology of Fluoroquinolones, Pharmacology of Penicillin and its derivatives					
	Pharmacology of Cephalosporins, Pharmacology of other Beta lactam antibiotics					
	Pharmacology of Aminoglycosides, Pharmacology of Macrolides					
PH1.43	Pharmacology of Broad spectrum antibiotics, Pharmacology of newer antibacterials					

Competency Nos.	Topics & Subtopics				Topics & Subtopics	
PH1.44	Pharmacology of Antitubercular drugs including MDR and XDR TB					
PH1.45						
PH1.46	Pharmacology of Antileprotics Page 3 of 34					

	Pharmacology of Antimalarials			
PH1.47	Pharmacology of Antiamoebic and other Antiprotozoal drugs			
1111.47	Pharmacology of Anthelminthics			
	Pharmacotherapy of UTI			
PH1.48	··			
F11.40	Pharmacotherapy of STD			
D114_40	Pharmacology of Antiretroviral drugs			
PH1.49	Pharmacology of Anticancer drugs			
PH1.50	Pharmacology of Immunomodulators			
PH1.51	Occupational and environmental toxicology			
PH1.53	Pharmacology of Chelating agents			
PH1.54	Vaccines and Antisera			
PH1.55	National health programs			
PH1.56	Geriatric and Pediatric pharmacology			
PH1.57	Drugs used in skin disorders			
PH1.58	Drugs used in Ocular disorders			
PH1.61	Dietary supplements and Nutraceuticals			
PH1.62	Antiseptics and Disinfectants			
Competency Nos.	Topics & Subtopics			
	CLINICAL PHARMACY			
PH2.1	Drug dosage forms (Oral, local, parenteral)			
PH2.2	ORS preparation			
PH2.3	Intravenous drip setting			
PH2.4	Dosage calculation			
	CLINICAL PHARMACOLOGY			

Competency Nos.	Topics & Subtopics				
	CLINICAL PHARMACY				
PH3.1					
PH3.8	Prescription writing and communication				
PH5.1					
PH3.2	Critical appraisal of Prescription				
PH3.3	Evaluation of Promotional Drug literature				
PH3.4	Adverse drug reaction-Identification and reporting				
PH3.5	Introduction to the concept of P – drugs and preparation of P-drug list				
PH3.6	Interaction with a pharmaceutic representative and critical evaluation of Drug information				
PH3.7	Introduction to the concept of Essential medicines				
	EXPERIMENTAL PHARMACOLOGY				
PH4.1	Drug administration on Maniquins				
PH4.2	Study of effects of drugs on blood pressure using software				
	COMMUNICATION TOPICS				
PH5.2	Importance of optimal use of drug therapy, storage of medicines				
PH5.3	Instrumentary on af David Consultary on				
PH5.4	Importance of Drug Compliance				
PH5.5	Problems associated with prescribing drugs with dependence liability				
PH5.6	Problems associated with use of OTC drugs				
PH5.7	Prescription: legal and ethical aspects				
2.1	AETCOM-1				
2.2	AETCOM-2				
2.3	AETCOM-3				

Paper wise distribution of topics for Prelim & MUHS Annual Examination

Year: Second MBBS Subject: Pharmacology

Paper	Section	Topics		
I	Α	MCQs on all topics of the paper I		
	В	General Pharmacology		
		Autonomic Nervous system including skeletal muscle relaxants		
		Cardiovascular system		
		Haematology		
		Gastro intestinal drugs		
		Respiratory system		
		AETCOM- 2.1, 2.2, 2.3 (section B one SAQ)		
II	Α	MCQs on all topics of the paper II		
	В	Central Nervous system including general/local anaesthesia		
		Endocrine system		
		Chemotherapy system		
		Autacoids		
		MISC. TOPICS: Chelating agents, Vaccines and Antisera,		
		ocular pharmacology, dermatological pharmacology,		
		nutraceuticals, occupational and environmental		
		pharmacology, toxicology)		

Second MBBS Internal Assessment Subject: Pharmacology

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

		IA-1 - Exam	<mark>(Jan)</mark>		IA – 2 -Exam	(May)		Prelim (Ju	ly)
Phase	Theory	Practical (Including 10 Marks for Journal & Log Book)	Total Marks	Theory	Practical Including 10 Marks for Journal & Log Book	Total Marks	Theory	Practical	Total Marks
Second MBBS	100	100	200	100	100	200	Paper 1 -100 Paper 2 -100	100	300

Assessment in CBME is ONGOING PRCESS,

No Preparatory leave is permitted.

- 1. There shall be 3 internal assessment examinations in Pharmacology.
- 2. The suggested patterns of question paper for first two internal assessment theory examinations can be similar to any of the two papers for final examination. Pattern of the prelims examinations should be similar to the University examinations.
- **3.** Internal assessment marks for theory and practical will be converted to out of 40 (theory) + 40 (practical). Internal assessment marks, after conversion, should be submitted to university within the stipulated time as per directives from the University. **Conversion Formula for calculation of marks in internal assessment examinations.**

Phase	Theory	Practical	
IA 1	100	100	
IA 2	100	100	
Prelim	200	100	
Total	400	300	
Conversion out of	40	40	
Conversion formula	Total marks in 3 IA theory examinations /10	Total marks in 3 IA Practical examinations /7.5	
Eligibility criteria	16	16	
after conversion	Combined theo	ry + Practical = 40	

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

Total Internal Assessment Marks	Final rounded marks
33.01 to 33.49	33
33.50 to 33.99	34

5. Students must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40 % marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the final University examination of that subject.

6. Internal assessment marks will not to be added to marks of the University examinations and will be shown separately in mark list.

7. Remedial measures

A. Remedial measures for non-eligible students

- i) At the end of each internal assessment examination, students securing less than 50% marks shall be identified. Such students should be counseled at the earliest and periodically.
- ii) Extra classes for such students may be arranged. If majority of the students found to be weak in a particular area then extra classes must be scheduled for all such students. Even after these measures, if a student is failed to secure 50% marks combined in theory and practical (40% separately in theory and practical) after prelim examination, the student shall not be eligible for final examination.
- iii) Non eligible candidates are offered to reappear for repeat internal assessment examination/s, which must be conducted 2 months before next University examination. The pattern for this repeat internal assessment examination shall be similar to the final University examination. Only the marks in this examination shall be considered for deciding the eligibility criteria. Following conversion formula shall be used for converting the marks.

	Theory	Practical	
Remedial examination	200	100	
(pattern as per final			
examination)			
Conversion out of	40	40	
Conversion formula	Marks in remedial theory examinations /5	Marks in remedial Practical examinations /2.5	
Eligibility criteria after	16	16	
conversion	Combined theory + Practical = 40		

B. Remedial measures for absent students:

If any of the students is absent for any of the 3 IA examinations due to any reasons, following measures shall be taken.

- i. The student is asked to apply to the academic committee of the college for reexamination, through HOD, to ascertain the genuineness of the reason for absentee.
- ii. If permitted by academic committee, an additional examination for such students is to be conducted after prelims examination. Marks for such additional examination shall be equal to the missed examination.
- iii. Even if a student has missed more than one IA examination, he/she can appear for only one additional IA examination. In such scenario, eligibility should be determined by marks obtained in internal assessment examinations for which the candidate has appeared, without changing the denominator.

Practical marks Distribution:

- A. For I st and II nd IA examinations
 - 1. Journal / Logbook 10 Marks
 - 2. Viva 20 marks
 - 3. Clinical Pharmacy (20 marks)
 - a. Dosage form- 10 marks,
 - b. ORS preparation/ IV drip setting- 5 marks
 - c. Dose calculation 5 marks
 - 4. Clinical Pharmacology (30 marks)
 - a. Prescription writing- 10 marks
 - b. Prescription criticism and rewriting / justification of FDC 10 marks
 - c. ADR identification / ADR reporting- 5 marks
 - d. P- drug list- 5 marks.
 - 5. Experimental Pharmacology (10 marks) OSPE
 - a. Drug administration using maniquin / drug effect using CAL software (or any other)- 10 marks
 - 6. Communication (10 marks) OSPE
 - a. prescription communication / ethics- legal drug storage/ use of device/drug adherence-compliance/ drug dependence/OTC/ interaction with Medical representative- 10 marks

B. For Preliminary examinations

- 1. Viva 30 marks
 - a. Viva I- 15 marks
 - b. Viva II- 15 marks
- 2. Clinical Pharmacy (20 marks)
 - a. Dosage form- 10 marks,
 - b. ORS preparation/ IV drip setting- 5 marks
 - c. Dose calculation 5 marks
- 3. Clinical Pharmacology (30 marks)
 - a. Prescription writing- 10 marks
 - b. Prescription criticism and rewriting / justification of FDC 10 marks
 - c. ADR identification / ADR reporting- 5 marks
 - d. P- drug list- 5 marks.
- 4. Experimental Pharmacology (10 marks) OSPE
 - a. Drug administration using maniquin / drug effect using CAL software (or any other)- 10 marks
- 5. Communication (10 marks) OSPE
 - a. prescription communication / ethics- legal drug storage/ use of device/drug adherence-compliance/ drug dependence/OTC/ interaction with Medical representative- 10 marks

Second MBBS Practical Mark's Structure (I, II & Prelim Exam.)

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

	Subject: PHARMACOLOGY								
		Р	\/I\/A	Log Book/	Practical & Oral				
Seat No.	Clinical Pharmacy	Clinical Pharmacology	Experimental Pharmacology	Communication	Total	VIVA	Journal	Practical & Oral	
Max. Marks	20	30	10	10	70	20	10	100	

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

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

	Subject: PHARMACOLOGY									
			Practical		Oral/Viva	Total				
Seat No.	Clinical Pharmacy	Clinical Pharmacology	Experimental Pharmacology	Communication	Total	VIVA 1 VIVA 2 Total			Practical & Oral (E + H)	
	Α	В	С	D	E	F	G	Н	ı	
Max. Marks	20	30	10	10	70	15	15	30	100	

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

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

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Competency Based Medical Education Year: Second MBBS

Subject: Pharmacology Learning Resource Material

Books recommended:

- 1. Basic & Clinical Pharmacology. Katzung BG (Ed), Publisher: Prentice Hall International Ltd., London.
- 2. Pharmacology & Pharmacotherapeutics. Satoskar RS, Bhandarkar SD (Ed), Publisher: Popular Prakashan, Bombay.
- 3. Essentials of Medical Pharmacology. Tripathi KD (Ed), Jaypee Brothers, publisher: Medical Publishers (P) Ltd.
- 4. Clinical Pharmacology. Laurence DR, Bennet PN, Brown MJ (Ed). Publisher: Churchill Livingstone

Reference books:

- Goodman & Gilman s The Pharmacological Basis of Therapeutics. Hardman JG & Limbird LE (Ed), Publisher: McGraw-Hill, New York.
- 2. A Textbook of Clinical Pharmacology. Roger HJ, Spector RG, Trounce JR (Ed), Publisher: Hodder and Stoughton Publishers.

Maharashtra University of Health Sciences Nashik



PHARMACOLOGY LOGBOOK For PHASE SECOND MBBS STUDENTS AS PER COMPETENCY BASED CURRICULUM

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, 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 :	
CER	TIFICATE
This is to certify that,	
Mr/Ms	
Roll No has satisfactorily at mentioned in this logbook as per the gindia, for Phase I MBBS Competency B Pharmacology.	guidelines prescribed by Medical Council of
Date: / /	
Date:/	
Teacher Incharge	Professor and Head Department of Pharmacology

Instructions

- 1) 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 Pharmacology.
- 2) Students are instructed to keep their logbook entries up to date.
- 3) Students are expected to write minimum 2 reflections on any two activities each of Clinical Pharmacology skills & Self-Directed Learning (SDL).
- 4) Students also have to write reflections on AETCOM Module 2.1, 2.2, 2.3) 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?)
- 5) 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 Complete/ Incomplete	Signature of Teacher
1	Clinical Pharmacology Skills			
2	Self-Directed Learning, Seminars, Projects, Quizzes			
3	AETCOM Module * 2.1 , 2.2, 2.3			
4	Attendance Records			
5	Records of Internal Assessment			

 $^{^{\}ast}$ AETCOM – Competencies for IMG, 2018, Medical Council of India.

Record of Clinical Pharmacology Skills

S.No	Skill	Setting	Correlation	Date	Signature of Teacher
1	Critical appraisal of prescription / audit				
2	Critical evaluation of promotional literature				
3	Filling and interpretation of ADR report				
4	Prepare and explain P drug list				
5	Optimised Interaction with pharmaceutical representative				
6	Prepare essential drug list for health care facility				

Reflection on Clinical Pharmacology Skills

Topic:	Date:

Reflection on Clinical Pharmacology Skills

Topic:	Date:

Reflection on Clinical Pharmacology Skills

Topic:	Date:
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2. Self Directed Learning, Seminars, Tutorials, Projects, Quizzes

S.No	Self Directed Learning, Seminars, Tutorials, Projects, Quizzes	Date	Signature of Teacher

Reflection on self directed learning activities

Topic:	Date:
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Reflection on self directed learning activities		

Topic: Date:

Reflection on self directed learning activities

Topic:	Date:
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3: AETCOM Module

- 2.1 Foundation of communication 2
- 2.2 Foundation of bioethics
- 2.3 Health care as a right

Reflection on AETCOM module

Topic:	Date:

Reflection on AETCOM module

Торіс:	Date:

Reflection on AETCOM module

Горіс:	Date:

SECTION 4B: Details of attending extra classes [For poor attendance (if any)]

S.No	Date	Period	Total hrs	Signature of student	Signature of Teacher
		Total hou	rs		

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