THE WEST BENGAL UNIVERSITY OF HEALTH SCIENCES



WBUHS

PATHOLOGY LOGBOOK FOR 2ND PROFESSIONAL MBBS STUDENT

AS PER
COMPETENCY BASED CURRICULUM

DEPARTMENT OF PATHOLOGY...... <u>CONTENTS</u>

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Personal details

Name of the student :		
Date of admission to MBBS Cours	se:	
Date of beginning of the current P	hase :	
College ID(Roll No):		
Reg. No. (University ID):		
Permanent Address :		
Present Address:		
	y.	
E mail ID:		
Mobile Number:		
Father's/Guardian's contact no	o:	
	Student's Signature:	

MBBS BATCH:

LOGBOOK CERTIFICATE

DEPARTMENT	OF	PATHOLOGY

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LOGBOOK CERTIFICATE

This is to certify that the candidate Mr/ Ms, R	teg No.
admitted in the year in Medical C	
and Hospital has satisfactorily completed / has not completed all assign	
/requirements mentioned in this logbook for second year MBBS course	in the
subject of Pathology during the period from to to	
She / He, is / is not, eligible to appear for the summative (University) assess	ssment
as on	

Signature of Faculty

Countersigned by Head of the Department . Name and Designation

Principal/Dean of the College

Place:

Date:

DEPARTMENT OF PATHOLOGY.....

GENERAL INSTRUCTIONS FOR STUDENTS

- 1) The log book is a record of the academic / non academic activities of the student. Each medical student is responsible for maintaining their logbook.
- 2) This logbook is prepared as per the guidelines of NMC for implementation of Competency based curriculum for Phase II MBBS students in the subject of Pathology.
- 3) Students are instructed to keep their logbook entries up to date. It is the responsibility of the student to enter their activity in respective pages & get them duly singed by the supervising faculty (within a week).
- 4) Entries in the logbook will be in accordance with activities done in the para-clinical departments & have to be scrutinized by the Head/ In-charge of the concerned department.
- 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 participation & performance and Acquisition of selected competencies
- 6) The logbook shall be kept as documentation of performance of the candidate for that department and should be submitted to department as a bonafide record of the candidate before appearing for the University examination.
- The undergraduate medical education program is designed with a goal to create an "Indian Medical Graduate" (IMG). The IMG must be able to function in the following ROLES appropriately and effectively: (A) Clinician who understands and provides preventive, promotive, curative, palliative and holistic care with compassion. (B) Leader and member of the health care team and system with capabilities to collect analyze, synthesize and communicate health data appropriately. (C) Communicator with patients, families, colleagues and community. (D) Lifelong learner committed to continuous improvement of skills and knowledge. (E) Professional who is committed to excellence, is ethical, responsive and accountable to patient's community and the profession.

DEPARTMENT OF PATHOLOGY

DURATION OF COURSE & ELIGIBILITY CRITERIA

- 1. Every learner shall undergo a period of certified study extending over 4 ½ academic years, divided into nine semesters from the date of commencement of course to the date of completion of examination which shall be followed by one year of compulsory rotating internship.
- 2. Para-clinical phase [(Phase II) Second Professional (12 months)]: will consist of Para-clinical subjects namely Pathology, Pharmacology, Microbiology, Community Medicine, Forensic Medicine and Toxicology, Professional development including Attitude, Ethics & Communication (AETCOM) module and introduction to clinical subjects ensuring both horizontal and vertical integration.
- 3. The second Professional examination shall be held at the end of second professional training (11 months), in the subjects of Pathology, Microbiology, and Pharmacology. Eligibility to appear for Professional examinations:
 - a. Attendance requirements are 75% in theory and 80% in practical for eligibility to appear for the examinations in that subject.
 - b. Learners 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) assigned for internal assessment in a particular subject in order to be eligible for appearing at the final University examination of that subject.
 - c. In subjects that have two papers, the learner must secure at least 40% marks in each of the papers with minimum 50% of marks in aggregate (both papers together) to pass in the said subject.

4. Internal Assessment

- a) Minimum 3 internal assessment examinations will be conducted in each Para clinical subject.
- b) Day to day practical records & log book will be given importance in internal assessment.
- c) Learners 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 a particular subject in order to be eligible for appearing at the final University examination of that subject.
- d) Results of IA will be displayed in notice board within 1-2 weeks of test. The internal assessment records will be kept in the department as a separate document.
- e) Students will be made aware of the results and their signature will be documented against results.
- f) Internal assessment marks will reflect as separate head of passing at the summative/university examination and will not be incorporated with the marks obtained in summative/university exam.
- g) Summative Assessment will be under the supervision of University.

OVERVIEW TEACHING SCHEDULE IN PATHOLOGY

Lectures (in hours)	Tutorials/ Seminars /Integrated Teaching (in hours)	Self- Directed Learning (hours)	Total (hours)
80	138	12	230

OVERVIEW INTERNAL ASSESSMENT SCHEDULE IN PATHOLOGY

1 st Internal Assessement	3(three) IA in a academic year
	Theory 100 marks
	Practical 100 marks
2 nd Internal Assessement	*20% of marks from formative assessment documented in log book will be added to the internal assessment marks.
3 rd Internal Assessement	1 1 tour Comment of the last

OVERVIEW OF UNIVERSITY EXAMINATION

Subjects	Theory Total	Practicals /Orals	Pass Criteria
Pharmacology 2 Papers	200	100	Internal Assessment: 50% combined in theory and practical (not less than 40% in each) for eligibility for
Pathology 2 papers	200	100	appearing for University Examinations University Examination: Mandatory 50% marks
Microbiology 2 papers	200	100	separately in theory and practical (practical = practical+ viva)

GLOSSARY

Logbook: is a *verified record* of the progression of the learner documenting the acquisition of the requisite knowledge, skills, attitude and/ or competencies.

Portfolio is an evidence events documented in the logbook. It includes selected assignments, self assessment, feedback, work-based and in-training formative assessments, reflections and learning from planned activity in the curriculum.

Activity: This term refers to a predefined task performed by learners that contributes to the achievement of stated objectives or competencies.

Attempt at activity by learner: Indicate if:

- a. First attempt (or) only attempt
- b. Repeat (R) of a previously done activity
- c. Remedial activity (Re) based on the determination by the faculty

Rating - Use one of three grades:

- a. Below expectations (B);
- b. Meets expectations (M)
- c. Exceeds expectations (E)

Decision of faculty

- a. C: activity is completed, therefore closed and can be certified
- b. R: activity needs to be repeated without any further intervention
- c. Re: activity needs remedial action (usually done after repetition did not lead to satisfactory completion)

Feedback: Feedback is a formal active interaction performed at the completion of an observed activity (or activities) intended to facilitate positive change, growth and improvement of the learner through guided reflection of activity (ies) performed.

INDEX OF COMPETENCIES

Sr.	Topics/Systems	No of	Page numbers		
No		Competencies	From	То	
1	Cell Injury and Adaptation	1			
2	Amyloidosis	1		Ser	
3	Inflammation	1			
4	Hemodynamic disorders	1			
5	Basic diagnostic cytology	1			
6	Introduction to Hematology	1			
7	Microcytic Anemia	1			
8	Macrocytic Anemia	1			
9	Haemolytic Amemia	1			
10	Lymph node and spleen	3			
11	Plasma cell disorders	1			
12	Clinical Pathology	2			
13	Hepatobiliary System	1			
14	Cardiovascular System	1			
15	Breast	1			
16	Skin	1		= 1/	
17	Central nervous system	1			

Competency		Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 2.8	Identify and describe various forms of cell injuries, their manifestations and consequences in gross and microscopic specimens					Self room	St. St.
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 3.2	Identify and describe amyloidosis in a pathology specimen			ge .			
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Competency addressed	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 4.4	Identify and describe acute and chronic inflammation in gross and microscopic specimens		F				
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 6.7	Identify and describe the gross and microscopic features of infarction in a pathologic specimen						
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 13.5	Perform, identify and describe the peripheral blood picture in anemia			¥ 1			# R H S
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Competency addressed	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 14.3	Identify and describe the peripheral smear in microcytic anemia						- 21
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 15.3	\$1 145 OV						
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Competency addressed	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 16.6	Prepare a peripheral blood smear and identify hemolytic anemia from it						
PA 16.6.1	a. the student should be able to prepare a peripheral blood smear from a given sample						
PA 16.6.2	b. the student should be able to identify morphological features of haemolytic anemia from PBS		8				
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COMPETENCY ACQUIRING CERTIFICATE DEPARTMENT OF PATHOLOGY MBBS BATCH:

This is to certify that the candidate Mr/ Ms	Reg
No admitted in the year in Medical (
and Hospital has satisfactorily completed and acquired the competency PA	A 16.6:
Prepare a peripheral blood smear and identify hemolytic anemia from it.	

Countersigned by Head of the Department

Signature of Faculty Name and Designation

Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation (E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 19.3	Identify and describe the features of tuberculosis lymphadenitis in a gross and microscopic specimen	= 5					
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation (E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 19.5	Identify and describe the features of Hodgkin's lymphoma in a gross and microscopic specimen						
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation (E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 19.7	Identify and describe the gross specimen of an enlarged spleen						
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation (E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 20.1	Describe the features of plasma cell myeloma			į.			
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation (E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 23.1	Describe abnormal urinary findings in disease states and identify and describe common urinary abnormalities in a clinical specimen						
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation (E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 23.3	Describe and interpret the abnormalities in a panel containing function tests, renal function tests or liver function tests						
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 25.6	Interpret liver function and viral hepatitis serology panel. Distinguish obstructive from non – obstructive jaundice based on clinical features and liver function tests						
PA 25.6.1	The student should be able to interpret liver function test		12				
PA 25.6.2	The student should be able to interpret serological findings in viral hepatitis						
PA 25.6.3	The student should be able to distinguish obstructive from non - obstructive jaundice from clinical features and LFT						

COMPETENCY ACQUIRING CERTIFICATE DEPARTMENT OF PATHOLOGY MBBS BATCH:

This is to certify that the candidate Mr/ Ms Reg
No
and Hospital has satisfactorily completed and acquired the competency PA 25.6
Interpret liver function and viral hepatitis serology panel. Distinguish obstructive
from non – obstructive jaundice based on clinical features and liver function tests.

Countersigned by Head of the Department

Signature of Faculty Name and Designation

Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 27.8	Interpret abnormalities in cardiac function testing in acute coronary syndromes		.c				1
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 31.3	Describe and identify the morphologic and microscopic features of carcinoma of the breast						
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Competency	Name of activity	Date of completion	Attempt at activity First(F) Repeat (R) Remedial(Re)	Rating Below expectation(B) Meets expectation(M) Exceeds expectation(E)	Decision of faculty Completed(C) Repeat(R) Remedial(Re)	Remarks and Initial of Faculty and date	Feedback received Initial of student
PA 35.3	Identify the etiology of meningitis based on given CSF parameters		<i>3</i>				
PA 35.3.1	The student able to identify the normal parameters in CSF						
PA 35.3.2	The student able to identify the abnormal parameters of CSF in different type of meningitis						
PA 35.3.3	The student should be able to differentiate the various types meningitis based abnormal CSF findings						×
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COMPETENCY ACQUIRING CERTIFICATE DEPARTMENT OF PATHOLOGY MBBS BATCH: 2019

This is to certify that the candidate Mr/ Ms	Reg
No admitted in the year in Medical C	College
and Hospital has satisfactorily completed and acquired the competency PA	35.6:
Identify the etiology of meningitis based on given CSF parameters.	

Countersigned by Head of the Department

Signature of Faculty Name and Designation

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Competency # addressed	Name of Activity	Date completed: dd-mm-yy	Rating B/M/E OR Numerical Score	Initial of faculty and date	Feedback Received Initial of learner
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WBUHS: Pathology

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Competency # addressed	Name of Activity	Date completed: dd-mm-yy	Rating B/M/E OR Numerical Score	Initial of faculty and date	Feedback Received Initial of learner
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Competency # addressed	Name of Activity	Date completed: dd-mm-yy	Rating B/M/E OR Numerical Score	Initial of faculty and date	Feedback Received Initial of learner
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Seminar/Project Topic	
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ATTENDANCE RECORD

Phase	Theory Class Total	Theory Class Attended	Percentage Theory Class Attended	Practical Total	Practical Attended	Percentage Practical Class Attended
Professional Year II (Term I)						11111111
Professional Year II (Term II)		27		.2		
Professional Year II (Term III)						
Professional Year II (Total)						

Signature of the Student

Signature of Faculty in Charge

Signature of Professor and Head Department of Pathology

RECORDS OF INTERNAL ASSESSMENT EXAMINATIONS

Assessment	Date	Theory	Date	Practical including viva	Signature of student	Signature of teacher
1 st Internal Assessment			22		v	
2 nd Internal Assessment						
3 rd Internal Assessment						
Total Aggregate of Internal Assessment Assessment Marks (Part I&II)		3				= "
Remedial examination if any		1		*		
Marks from FA log book						
Final Internal Assessment Marks (to be submitted to University)						

Signature of Professor and Head Department of Pathology