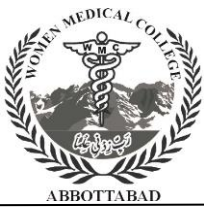


# Women Medical College, Abbottabad

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## STUDYGUIDE

### Class Name

### Department Name

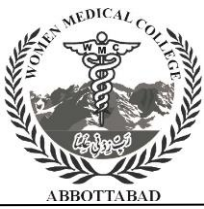
#### Description:

#### Overview:

|         |   |
|---------|---|
| Program | Bachelor of Medicine, Bachelor of Paediatrics |
|---------|---|

|                            |                                 |
|----------------------------|---------------------------------|
| ContactHours total         | e.g 250                         |
| InfrastructureRequirements | LectureHall<br>Ward and N.I.C.U |

| Contact Hours/Year        |  |
|---------------------------|--|
| 1 <sup>st</sup> year MBBS |  |
| 2 <sup>nd</sup> Year MBBS |  |
| 3 <sup>rd</sup> year MBBS |  |
| 4 <sup>th</sup> Year MBBS |  |
| 5 <sup>th</sup> year MBBS |  |



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## Faculty Responsible for Course Conduction:

| Sr.No | Faculty             | Designation         |
|-------|---------------------|---------------------|
| 1.    | Dr. Zardad Muhammad | H.O.D               |
| 2.    | Dr. Ambreen Sultan  | Professor           |
| 3.    | Dr.Nasir            | Assistant Professor |
| 4.    | Dr.Fiaz             | Assistant Professor |
| 5.    | Dr.Saira            | Senior registrar    |

## Details of Supporting Staff:

| Sr.No | Staff            | Designation       |
|-------|------------------|-------------------|
| 1.    | Muhammad Shahzad | Computer Operator |
| 2.    | Riaz             | Office attendant  |

## Objectives & Learning Strategies/TOS:

| S. No | Classes                   | Topic                                   | Module                   | Learning Outcomes  | Teaching Hours | Mode of Teaching                                 | Assessment Tools |
|-------|---------------------------|---|--------------------------|--|----------------|--|------------------|
| 1.    | 4 <sup>th</sup> Year MBBS | Cerebellar ataxias                      | Neurosciences-II         | Describe the clinical features and management of Friedreich's Ataxia   | 1              | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE   |
| 2.    | 4 <sup>th</sup> Year MBBS | Meningitis                              | Neurosciences-II         | Explain the aetiology, pathogenesis, investigation and management of Acute pyogenic meningitis in children and neonates        | 1              | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE   |
| 3.    | 4 <sup>th</sup> Year MBBS | TBM                                     | Neurosciences-II         | Explain the aetiology, pathogenesis, clinical presentation, investigation and management of tuberculous meningitis in children | 1              | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE   |
| 4.    | 4 <sup>th</sup> Year MBBS | Hereditary Neuropathies                 | Neurosciences-II         | Describe the Types clinical features and management of hereditary neuropathies   | 1              | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE   |
| 5.    | 4 <sup>th</sup> Year MBBS | Hereditary hyperbilirubinemias          | GIT and Hepatobiliary-II | Classification, investigations and management of hereditary hyperbilirubinemias  | 1              | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE   |
| 6.    | 4 <sup>th</sup> Year MBBS | Acute Hepatitis A                       | GIT and Hepatobiliary-II | Explain the aetiology, pathogenesis, investigation, management and prevention of Acute viral Hepatitis A infection             | 1              | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE   |
| 7.    | 4 <sup>th</sup> Year MBBS | Lactase deficiency/ Infectious diarrhea | GIT and Hepatobiliary-II | Describe the aetiology, clinical features and management of lactase deficiency and infectious diarrhea                         | 1              | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE   |



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|    |                                 |   |  |   |   |   |                   |
|----|---------------------------------|---|--|---|---|---|-------------------|
| 8. | 4 <sup>th</sup><br>Year<br>MBBS | Celiac<br>Disease   | GIT and<br>Hepatobili<br>ary-II                      | Describe the aetiology,<br>clinical features<br>investigations,<br>complications and<br>management of Celiac<br>disease   | 1 | Lectures<br>Ward round<br>Clinical<br>Demonstration | MCQ's and<br>OSCE |
| 9. | 4 <sup>th</sup><br>Year<br>MBBS | Acute post<br>streptococ<br>cal<br>glomerulone<br>phritis<br>(ApGN) | Renal-II,<br>Endocrine<br>and<br>Reproduct<br>ion-II | Define AGN and APGN,<br>clinical features,<br>differential diagnosis,<br>management and<br>treatment  | 1 | Lectures<br>Ward round<br>Clinical<br>Demonstration | MCQ's and<br>OSCE |
| 10 | 4 <sup>th</sup><br>Year<br>MBBS | Nephrotic<br>Syndrome<br>(NS)                                       | Renal-II,<br>Endocrine<br>and<br>Reproduct<br>ion-II | Describe<br>pathophysiology,<br>Classifications, clinical<br>features, outline<br>treatment steps in<br>management of NS  | 1 | Lectures<br>Ward round<br>Clinical<br>Demonstration | MCQ's and<br>OSCE |
| 11 | 4 <sup>th</sup><br>Year<br>MBBS | Urinary tract<br>infection<br>(UTI)                                 | Renal-II,<br>Endocrine<br>and<br>Reproduct<br>ion-II | Describe the etiology,<br>investigation, prevention<br>and management of UTI<br>in children   | 1 | Lectures<br>Ward round<br>Clinical<br>Demonstration | MCQ's and<br>OSCE |
| 12 | 4 <sup>th</sup><br>Year<br>MBBS | Short<br>stature  | Renal-II,<br>Endocrine<br>and<br>Reproduct<br>ion-II | Describe the method to<br>measure and plot height<br>and calculate height<br>velocity, and<br>midparental, target<br>height to allow early<br>diagnosis of growth<br>disorder in paediatrics<br>patient | 1 | Lectures<br>Ward round<br>Clinical<br>Demonstration | MCQ's and<br>OSCE |
| 13 | 4 <sup>th</sup><br>Year<br>MBBS | Congenital<br>hypothyroidi<br>sm                                    | Renal-II,<br>Endocrine<br>and<br>Reproduct<br>ion-II | Discus the types, clinical<br>features, investigation<br>and treatment of<br>hypothyroidism   | 1 | Lectures<br>Ward round<br>Clinical<br>Demonstration | MCQ's and<br>OSCE |
| 14 | 4 <sup>th</sup><br>Year<br>MBBS | Managemen<br>t of type 1<br>Diabetes<br>mellitus in<br>children     | Renal-II,<br>Endocrine<br>and<br>Reproduct<br>ion-II | Enumerate the blood<br>glucose parameters and<br>the clinical signs for an<br>early diagnosis of<br>Diabetes in children  | 1 | Lectures<br>Ward round<br>Clinical<br>Demonstration | MCQ's and<br>OSCE |
|    |                                 |   |  |   |   |   |                   |
|    |                                 |   |  |   |   |   |                   |



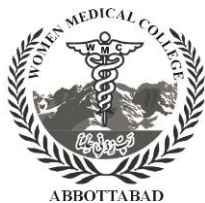
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|    |                 |  |                          |  |   |  |                |
|----|-----------------|--|--------------------------|--|---|--|----------------|
| 1. | Final year MBBS | History taking and physical examination  | Foundation-III           | Take history from parents from neonatal age to pediatric age.  | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 2. | Final Year MBBS | Anemia   | Blood and Immunology-III | Evaluate a neonate, Congenital/ Acquired Anemia . Explain the diagnostics  | 2 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 3. | Final Year MBBS | .Thalassemia,<br>. Sick cell anemia,<br>.Hereditary spherocytosis,<br>.G6PD deficiency | Blood and Immunology-III | Manage a child with anemia from bone marrow failure, Aplastic anemia,<br>Perform physical examination of a neonate with anemia | 2 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 4. | Final Year MBBS | Orthopedic evaluation of a child management of pediatric arthritides                   | MSK-III                  | Perform orthopedic evaluation of a neonate and child   | 2 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 5. | Final Year MBBS | Management of common arthritic disorder in children                                    | MSK-III                  | Presentation complications with Juvenile idiopathic arthritis  | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 6. | Final Year MBBS | Rickets and Osteomalacia   | MSK-III                  | Discuss the etiology, clinical, radiological, and laboratory feature of Rickets and Osteomalacia and their treatments          | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 7. | Final Year MBBS | Muscular dystrophies   | MSK-III                  | Explain the pathogenesis, clinical features, differential diagnosis, management and prognosis of duchenne muscular dystrophy   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |



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|     |                 |  |                    |   |   |  |                |
|-----|-----------------|--|--------------------|---|---|--|----------------|
| 8.  | Final Year MBBS | Acyanotic heart disease VSD, ASD, Coarctation of aorta | Cardio Respiratory | Discuss the clinical presentation and diagnostic workup for Acyanotic heart disease, Ventricular septal defect, Atrial septal defect, and Coarctation of aorta. | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 9.  | Final Year MBBS | Cyanotic heart disease                                 | Cardio Respiratory | Discuss the clinical presentation and diagnostic workup needed for Cyanotic heart disease in paediatrics patients   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 10. | Final Year MBBS | Congestive Cardiac Failure (CCF)                       | Cardio Respiratory | Discuss the clinical presentation and diagnostic workup and management needed for Congestive Cardiac Failure in paediatrics patients                            | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 11. | Final Year MBBS | Cardiomyopathy   | Cardio Respiratory | Discuss the management algorithm of an infant and child with Cardiomyopathy   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 12. | Final Year MBBS | Rheumatic fever  | Cardio Respiratory | Discuss the clinical presentation and diagnostic workup and management needed for Rheumatic fever in paediatrics patients                                       | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 13. | Final Year MBBS | Acute Respiratory infection (ARI)                      | Cardio Respiratory | Explain the clinical presentation and diagnostic workup needed for Acute Respiratory Infection  | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 14. | Final Year MBBS | Infective Endocarditis                                 | Cardio Respiratory | Discuss the clinical presentation and diagnostic workup and management needed for Infective Endocarditis in paediatrics patients                                | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 15. | Final Year MBBS | Myocarditis  | Cardio Respiratory | Discuss the clinical presentation and diagnostic workup and management needed for Myocarditis   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |



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|    |                 |                             |                                |  |   |  |                |
|----|-----------------|-----------------------------|--------------------------------|--|---|--|----------------|
| 16 | Final Year MBBS | Nephrotic Syndrome          | Renal                          | Discuss the clinical presentation, the diagnostic workup and management for suspected GN and Nephrotic Syndrome in paediatrics patients    | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 17 | Final Year MBBS | Acute Kidney Injury (AKI)   | Renal                          | Discuss the clinical presentation, the diagnostic workup and management for suspected GN and Acute Kidney Injury in paediatrics patients   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 18 | Final Year MBBS | Chronic Renal Failure (CKD) | Renal                          | Discuss the clinical presentation, the diagnostic workup and management for suspected GN and Chronic Renal Failure in paediatrics patients | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 19 | Final Year MBBS | Short Stature               | Endocrine and Reproduction-III | Discuss the diagnostic approach and management of a child with short stature   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 20 | Final Year MBBS | Thyroid disorders           | Endocrine and Reproduction-III | Explain the neonatal screening for hypothyroidism, Diagnostic approach and management with suspected Cretinism                             | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 21 | Final Year MBBS | Type-1 DM                   | Endocrine and Reproduction-III | Explain the Diagnostic approach, screening, and management of a child with suspected Type-1 Diabetes Mellitus                              | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 22 | Final Year MBBS | The Neonate                 | Endocrine and Reproduction-III | Discuss the types and management of common problems of preterm and term babies   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 23 | Final Year MBBS | Epilepsy                    | Neurosciences-III              | Discuss the Diagnostic workup and management Counsel and educate the parents/ guardian of a child with seizures and Epilepsy, of           | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |





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|    |                 |                                  |                   |   |   |  |                |
|----|-----------------|----------------------------------|-------------------|---|---|--|----------------|
| 24 | Final Year MBBS | Meningitis                       | Neurosciences-III | Discuss the Diagnostic workup and management for children suspected of Meningitis   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 25 | Final Year MBBS | Hereditary neuropathies          | Neurosciences-III | Classify hereditary neuropathies and discuss their clinical feature, investigations, and management   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 26 | Final Year MBBS | Vomiting                         | GIT               | Explain the Diagnostic and therapeutic approach to a neonate and infant with persistent vomiting  | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 27 | Final Year MBBS | Hyperbilirubinemia               | GIT               | Discuss the Diagnostic approach and management of a neonate and infant with jaundice, Counsel a child and his parents with Gilbert syndrome | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 28 | Final Year MBBS | Malabsorption and celiac disease | GIT               | Explain the diagnostic workup and management of a patient with Malabsorption due to celiac disease  | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 29 | Final Year MBBS | Acute and Chronic Diarrhea       | GIT               | Explain the diagnostic workup and management of a patient with acute / chronic diarrhea   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 30 | Final Year MBBS | Protein calorie malnutrition     | Multisystem-II    | Discuss the causes of malnutrition in developing countries, Different forms and symptoms of severe protein-energy                           | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 31 | Final Year MBBS | Porphyria                        | Multisystem-II    | Classify porphyria, Explain the etiology, pathogenesis, clinical features and treatment of different types of porphyria                     | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |



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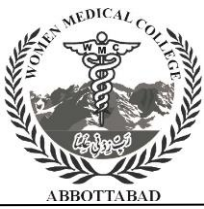
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|----|-----------------|---------------------------|----------------|---|---|--|----------------|
| 32 | Final Year MBBS | Down Syndrome             | Multisystem-II | Explain the risk factor, chromosomal aberrations, clinical features and complications of Down Syndrome  | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 33 | Final Year MBBS | Glycogen storage diseases | Multisystem-II | Classify glycogen storage disease and their clinical features   | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |
| 34 | Final Year MBBS | Kawasaki disease          |                | Explain the clinical feature investigations management prognosis and complications of Kawasaki Syndrome | 1 | Lectures<br>Ward round<br>Clinical Demonstration | MCQ's and OSCE |

## Learning Resources:

| Sr.No | Text/Reference Books            | Edition |
|-------|---------------------------------|---------|
| 1.    | Pervaiz Akber                   |         |
| 2.    | Nelson Text Book of Paediatrics |         |
| 3.    | Forfar text book of Paediatrics |         |

## Additional Learning Resources:

|                    |                                |
|--------------------|--------------------------------|
| Handson            | <b>Clinical Demonstrations</b> |
| SkillsLab          | Ward Practice                  |
| Videos             | Lectures                       |
| Internet Resources | Google                         |



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## Assessment Methods:

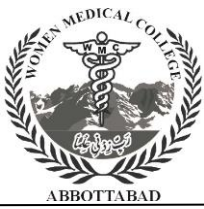
- **MCQs: Multiple Choice questions;** Single best Type
- **OSPE/OSCE:** Objective Structured Practical/Clinical Examination
- **Presentation:**

## Multiple Choice Questions:

1. Single best type MCQs having five options with one correct answer and four distractors are part of assessment.
2. Correct answer carries one mark, and incorrect will be marked zero. Rule of negative marking is not applicable.
3. Students mark their responses on specified computer-based designed sheet.

## Objective Structured Practical/Clinical Examination

1. **OSPE/OSCE** stations are used for formative as well as summative assessment.
2. Time allocated for each station is five minutes as per Examination rules of Khyber Medical University, Peshawar.
3. All students are rotated through the same stations.
4. Stations used are unobserved, observed, interactive and rest stations.
5. On unobserved stations, models, lab reports, radiographs, flowcharts, case scenario may be used to assess cognitive domain.
6. On observed station, examiners don't interact with candidate and just observe the performance of skills/procedures.
7. On interactive station, examiner ask questions related to the task within the allocated time.
8. On rest station, students are not given any task. They just wait to move to the next station.



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## Presentation:

Students are given topics for presentation either individually or in groups. They are encouraged to prepare presentations on powerpoint to enhance their understanding of the topic.

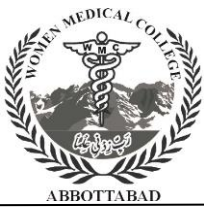
## Internal Assessment Criteria:

1. Internal Assessment of each block according to the policy of Khyber Medical University is given below.

|                    |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|
| <b>Total Marks</b> | <b>Paper A = 14</b> | <b>Paper D = 14</b> | <b>Paper G = 14</b> |
|                    | <b>Paper B = 13</b> | <b>Paper E = 13</b> | <b>Paper H = 13</b> |
|                    | <b>Paper C = 13</b> | <b>Paper F = 13</b> | <b>Paper I = 13</b> |
| <b>Total Marks</b> | <b>Paper J = 13</b> | <b>Paper L = 14</b> |                     |
|                    | <b>Paper K = 13</b> | <b>Paper M = 13</b> |                     |

2. This Internal Assessment will comprise of following components

- a) Attendance
- b) Block Examination Results
- c) Logbooks
- d) Short Cases (in case 5<sup>th</sup> Year MBBS)
- e) Long Cases (in case 5<sup>th</sup> Year MBBS)
- f) Ward Tests (in case 5<sup>th</sup> Year MBBS)



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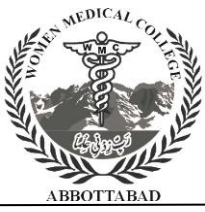
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## Examination Rules & Regulations:

1. Exam Cell conducts the End of Module and Block Assessments according to the blueprint provided by the Khyber Medical University, marks of which will be included in internal assessment.
2. The minimum passing marks in each subject shall be 50% in theory and practical. A student who fails in theory or practical examination of a subject shall be considered to have failed in the subject.
3. No student is eligible for university examination without attending at least 75% of lectures, demonstrations, tutorials, and practical/clinical work in both in-patient and out-patient departments in that academic session.

## Feedback on Examination:

1. Students' feedback on assessment strategies will be taken in a preformed proforma or feedback at the end of the session.
2. Department of Medical Education & Quality Enhancement Cell in collaboration with Exam Cell of WDC is responsible to conduct this exercise.



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## Model Questions:

### Multiple Choice Question

MCQ

## Suggestions for Next Academic Year:

## Prepared By: