

# Women Medical College, Abbottabad

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## STUDY GUIDE

Class Name: 4<sup>th</sup> Year & Final Year MBBS

Department Name: Surgery & Allied

### Description:

This departmental study guide line summarizes all the relevant information (surgery & allied) regarding the course content as per KMU modular system, contact hours, faculty involved, internal examination and assessments of 4<sup>th</sup> year & Final Year MBBS program.

### Overview:

Program	Bachelor of Medicine, Bachelor of Surgery
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Contact Hours total	e.g 250
Infrastructure Requirements	Lecture Hall Museum Histology Lab

Contact Hours/ Surgery & Allied/Year	
4 <sup>th</sup> Year MBBS	Lectures: 39 hrs, Wards: 80 hrs
5 <sup>th</sup> year MBBS	Lectures: 49 hrs, Wards: 165 hrs



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## Faculty Responsible for Course Conduction:

Sr. No	Faculty	Designation
01	Prof. Dr. Mohammad Nawaz	Professor/ HOD- Surgery
02	Dr. Talat Shahazad	Associate Professor (Surgery)
03	Dr. Nadir Saifullah Khan	Associate Professor (Surgery)
04	Dr. Saman Naz	Associate Professor (Surgery)
05	Dr. Ulas Khan	Associate Professor (Surgery)
06	Dr. Hamza Ashraf	Assistant Professor (Urology)
07	Dr. Faryal Saeed	Sr. Registrar (Surgery)
08	Dr. Saqib Khalil	Assistant Professor (Neurosurgery)
09	Prof. Dr. Shahid Sultan	Professor/ HOD (Orthopedics)
10	Dr. Azhar Azeem	Assistant Professor (Orthopedics)

## Details of Supporting Staff:

Sr. No	Staff	Designation
01	Mudassar Khan	Computer Operator/ Support Staff

Objectives & Learning Strategies/TOS:



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S.No	Classes	Topic	Module	Learning Outcomes	Teaching Hours	Mode of Teaching	Assessment Tools
1	4 <sup>th</sup> Year MBBS	Management	Neuroscience-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
2	4 <sup>th</sup> Year MBBS	Traumatic Paraplegia Spinal Tumor	Neuroscience-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
3	4 <sup>th</sup> Year MBBS	Management of Traumatic Paraplegia	Neuroscience-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
4	4 <sup>th</sup> Year MBBS	Peripheral Nerve Injury	Neuroscience-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
5	4 <sup>th</sup> Year MBBS	Introduction to the subject General Anesthesia	Neuroscience-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
6	4 <sup>th</sup> Year MBBS	Neuroaxis block Regional Anesthesia	Neuroscience-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
7	4 <sup>th</sup> Year MBBS	Preoperative evaluation & risk assessment	Neuroscience-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
8	4 <sup>th</sup> Year MBBS	Monitoring in anesthesia	Neuroscience-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
9	4 <sup>th</sup> Year MBBS	Tumors of esophagus Para-esophageal hiatus hernia	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
10	4 <sup>th</sup> Year MBBS	Gastric Cancer	GIT-II	LO provided by KMU in the PRIME	1	Lecture	Summative Assessment MCQ



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				Module			
11	4 <sup>th</sup> Year MBBS	Gastric Outlet obstruction	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
12	4 <sup>th</sup> Year MBBS	Gall Bladder & Pancreas Carcinoma of gall bladder	GIT-II	LO provided by KMU in the PRIME Module	2	Lecture	Summative Assessment MCQ
13	4 <sup>th</sup> Year MBBS	Liver Abscess Hydatid liver cysts	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
14	4 <sup>th</sup> Year MBBS	Acute Appendicitis	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
15	4 <sup>th</sup> Year MBBS	Intestinal Obstruction	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
16	4 <sup>th</sup> Year MBBS	Ulcerative Colitis	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
17	4 <sup>th</sup> Year MBBS	Crohn's Disease	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
18	4 <sup>th</sup> Year MBBS	Diverticular Disease	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
19	4 <sup>th</sup> Year MBBS	Anal Diseases: Fistula, Fissures & Hemorrhoids	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
20	4 <sup>th</sup> Year MBBS	Colorectal Cancers	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
21	4 <sup>th</sup> Year MBBS	Ischemic Colitis	GIT-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
22	4 <sup>th</sup> Year	Renal Transplant	Renal-II	LO provided by KMU in	1	Lecture	Summative Assessment



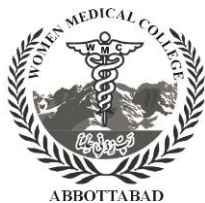
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	MBBS	Surgery		the PRIME Module			MCQ
<b>23</b>	4 <sup>th</sup> Year MBBS	Kidney Stones	Renal-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>24</b>	4 <sup>th</sup> Year MBBS	Renal Trauma Pelvic Ureteric junction obstruction in adult (PUJO)	Renal-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>25</b>	4 <sup>th</sup> Year MBBS	Anomalies of renal fusion and ascent Renal Cell Carcinoma	Renal-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>26</b>	4 <sup>th</sup> Year MBBS	Carcinoma of urinary bladder	Renal-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>27</b>	4 <sup>th</sup> Year MBBS	Enlarged Prostate Carcinoma Prostate	Renal-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>28</b>	4 <sup>th</sup> Year MBBS	Urinary Inconsistence	Renal-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>29</b>	4 <sup>th</sup> Year MBBS	Urethral Strictures Posterior urethral valve	Renal-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>30</b>	4 <sup>th</sup> Year MBBS	Cryptorchidism Hydrocele and varicocele	Endocrine-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>31</b>	4 <sup>th</sup> Year MBBS	Behign Prostatic hyperplasia Carcinoma of prostate	Endocrine-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>32</b>	4 <sup>th</sup> Year MBBS	Investigation of Breast Diseases Benign Breast Diseases	Endocrine-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>33</b>	4 <sup>th</sup> Year MBBS	Malignant	Endocrine-II	LO provided	2	Lecture	Summative



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	Year MBBS	Breast Diseases		by KMU in the PRIME Module			Assessment MCQ
<b>34</b>	4 <sup>th</sup> Year MBBS	Causes of male infertility	Endocrine-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>35</b>	4 <sup>th</sup> Year MBBS	Surgical Management of pituitary adenoma	Endocrine-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>36</b>	5 <sup>th</sup> Year MBBS	Basic surgical skills	Foundation-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>37</b>	5 <sup>th</sup> Year MBBS	Laparoscopic & robotic surgery	Foundation-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>38</b>	5 <sup>th</sup> Year MBBS	Surgical informed consent	Foundation-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>39</b>	5 <sup>th</sup> Year MBBS	Nutrition and fluid therapy	Foundation-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>40</b>	5 <sup>th</sup> Year MBBS	Post operative care	Foundation-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>41</b>	5 <sup>th</sup> Year MBBS	Dignostic imaging	Foundation-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>42</b>	5 <sup>th</sup> Year MBBS	Surgical management of disabling rheumatoid arthritis	Musculoskeletal System-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>43</b>	5 <sup>th</sup> Year MBBS	Tuberculous/ Septic arthritis	Musculoskeletal System-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
<b>44</b>	5 <sup>th</sup>	Deformaties	Musculoskeletal	LO provided	2	Lecture	Summative



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	Year MBBS	& congenital disorders	al System-III	by KMU in the PRIME Module			Assessment MCQ
45	5 <sup>th</sup> Year MBBS	Structural spine & abnormalities	Musculoskeletal System-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
46	5 <sup>th</sup> Year MBBS	Osteomyelitis / Caries spine	Musculoskeletal System-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
47	5 <sup>th</sup> Year MBBS	Poliomyelitis	Musculoskeletal System-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
48	5 <sup>th</sup> Year MBBS	Burns (Classification, Assessment, Management & Complications)	Musculoskeletal System-III	LO provided by KMU in the PRIME Module	3	Lecture	Summative Assessment MCQ
49	5 <sup>th</sup> Year MBBS	Chest trauma hemothorax	Cardio respiratory	LO provided by KMU in the PRIME Module	2	Lecture	Summative Assessment MCQ
50	5 <sup>th</sup> Year MBBS	Thoracostomy and chest intubation	Cardio respiratory	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
51	5 <sup>th</sup> Year MBBS	Nephrolithiasis	Renal-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
52	5 <sup>th</sup> Year MBBS	Dysuria/ Hematuria	Renal-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
53	5 <sup>th</sup> Year MBBS	Testicular Torsion/ Hydrocele	Renal-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
54	5 <sup>th</sup> Year MBBS	Testicular tumors/ Epididymo-orchitis	Renal-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ





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	5 <sup>th</sup> Year MBBS	Male infertility	Renal-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
55	5 <sup>th</sup> Year MBBS	Thyroid Nodule	Endocrine & reproduction- III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
56	5 <sup>th</sup> Year MBBS	Diabetic Foot Ulcers	Endocrine & reproduction- III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
57	5 <sup>th</sup> Year MBBS	Breast Diseases	Endocrine & reproduction- III	LO provided by KMU in the PRIME Module	2	Lecture	Summative Assessment MCQ
58	5 <sup>th</sup> Year MBBS	Intracranial space occupying lesions	Neurosciences -III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
59	5 <sup>th</sup> Year MBBS	Head Injury	Neurosciences -III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
60	5 <sup>th</sup> Year MBBS	Syringomyelia	Neurosciences -III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
61	5 <sup>th</sup> Year MBBS	Diseases of the vertebrate and intervertebral discs	Neurosciences -III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
62	5 <sup>th</sup> Year MBBS	Kyphoscoliosi s	Neurosciences -III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
63	5 <sup>th</sup> Year MBBS	Dysphagia	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
64	5 <sup>th</sup> Year	Obstructive Jaundice	GIT-III	LO provided by KMU in	1	Lecture	Summative Assessment



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	MBBS			the PRIME Module			MCQ
65	5 <sup>th</sup> Year MBBS	Acute Appendicitis & Pain abdomen	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
66	5 <sup>th</sup> Year MBBS	Intestinal obstruction	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
67	5 <sup>th</sup> Year MBBS	Intestinal perforation	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
68	5 <sup>th</sup> Year MBBS	Hernias	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
69	5 <sup>th</sup> Year MBBS	Constipation	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
70	5 <sup>th</sup> Year MBBS	Ulcerative colitis	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
71	5 <sup>th</sup> Year MBBS	Crohn's Disease	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
72	5 <sup>th</sup> Year MBBS	Colorectal Cancer	GIT-III	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
73	5 <sup>th</sup> Year MBBS	Bariatric surgery	Multisystem-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
74	5 <sup>th</sup> Year MBBS	Vitamins deficiencies (Thiamine deficiency, Pyridoxine deficiency, B12)	Multisystem-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ



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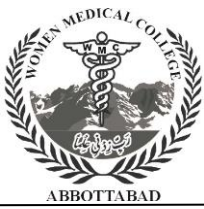
		deficiency and pernicious anemia)					
75	5 <sup>th</sup> Year MBBS	Vitamin A, D, E, K deficiency	Multisystem-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ
76	5 <sup>th</sup> Year MBBS	Nutritional support/ Enteral and parenteral nutrition	Multisystem-II	LO provided by KMU in the PRIME Module	1	Lecture	Summative Assessment MCQ

## Learning Resources:

Sr. No	Text/ Reference Books	Edition
01	Bailey & Love's Short Practice of Surgery (Volume-I & Volume-II)	27 <sup>th</sup> Edition
02	Browse's Introduction to Symptoms & signs of Surgical Diseases	5 <sup>th</sup> Edition
03	The Washington Manual of Surgery	8 <sup>th</sup> Edition
04	Netter's Orthopaedics	1 <sup>st</sup> Edition

## Additional Learning Resources:

Hands on	<b>Surgical Instruments, Tubings, Sutures &amp; Intubation, Specimen, History taking of admitted patients, OPD &amp; OT procedures observation</b>
Skills Lab	No skill lab at DHQ, Abbottabad
Videos	As per need of topic
Internet Resources	Yes



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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 scenarios 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 power point to enhance their understanding of the topic.

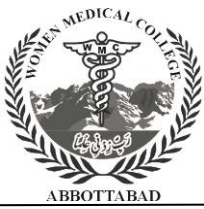
## Internal Assessment Criteria:

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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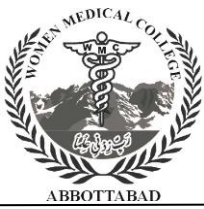
## Examination Rules & Regulations:

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 for 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.

➤ ***The department of surgery will fully assist the DMER & exam section in terms of mcqs submission, osce static/interactive stations & associated academic activities from time to time for the successful completion of the desired academic & assessment tasks.***



## Model Questions:

### Multiple Choice Question

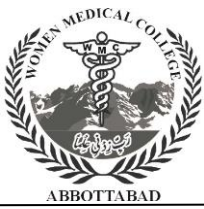
#### MCQ- Surgery

1. Which of the following is good indicator of tissue perfusion?
  - a) pulse
  - b) blood pressure
  - c) urine output**
  - d) CVP
  - e) GCS

## Suggestions for Next Academic Year:

The suggestions for the next academic year are as following;

- a. 4<sup>th</sup> Year & Final Year clinical topics should also be shared in accordance with concerned module
- b. Some topics included in the modular systems are at postgraduate level, which are not essential for students at this level



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- c. The concerned faculty members should be consulted about the credit hour needed for any topic before the start of module
- d. Many topics of 4<sup>th</sup> Year & Final Year are not addressing the direct surgical problems like; **“Vitamin deficiencies”** etc. has been allotted 2-3 hours & **“Hernias”** has been allotted only 1 hour in the year. Hernias are essential part of general surgery and requires more than 1 hour lecture. Similarly, **“Surgical Informed Consent”** has been allotted 1 hour of teaching however the students must only know the importance & required information in the consent form. Any other important topics like **“surgical anatomy of different organs like esophagus, gall bladder, pancreas, small intestine, large intestine, spleen & kidneys”** etc. must be included in the modular system

**Prepared By:**

*Surgical Unit  
WMC, BBS Teaching Hospital, Abbottabad*