

Subject name – Surgery

Subject code- HomUG -Sur -I

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1. Preamble

Surgery involves addressing acute or chronic injuries, deformities, or diseases through physical intervention such as removal, repair, or reconstruction of a specific part or organ. Specialized fields like ENT, Ophthalmology, Dentistry, and Orthopedics, as well as super specialties like cardiac, neuro, and oncosurgery, have gained prominence.

Homoeopathy has proven to play a significant role in preventing several surgical interventions, provided that the physician can diagnose the condition early and administer the appropriate treatment while also considering supplementary measures. Therefore, a homoeopathic physician should possess a solid understanding of surgery. A student of homoeopathy should be able to diagnose clinical conditions to effectively address the scope and limitations of homoeopathy in surgical cases. It is essential for students to learn the Hahnemannian concept of surgical diseases, chronic diseases, and susceptibility for the effective management of surgical conditions.

The management of surgical cases according to both modern medicine and Organon is a crucial part of the education and training of homoeopathic students. A comprehensive understanding and application of Homoeopathic principles, along with the correct knowledge of Homoeopathic medicines, can extend the use of Homoeopathy to a range of acute and chronic surgical conditions that were previously considered beyond its scope. Understanding surgical conditions enables students to provide continuity of care, particularly when patients transition between surgical interventions and homeopathic management. Equipping homeopathic students with knowledge of surgical conditions allows them to make informed decisions and recommend suitable treatment options, whether surgical or non-surgical. By studying surgical conditions, homeopathic students can offer comprehensive and integrated healthcare to their patients, leading to improved health outcomes and patient satisfaction.

2. Course outcomes

At the end of BHMS course, the student shall be able to-

- i) Diagnose common surgical conditions.
- ii) Understand the role of Homoeopathic treatment in pseudo-surgical and true surgical diseases.
- iii) Record the surgical case history that is complete and relevant to disease identification, help to find the correct Homoeopathic medicine that can be used for treating the condition.

- iv) Understand the fundamentals of examination of a patient with surgical problems.
- v) Demonstrate the ability to perform the bedside clinical procedures and the physical examination that is relevant for diagnosis and management of the disease.
- vi) Demonstrate ability to advise appropriate diagnostic tests (including radio-diagnosis) and interpretation of the test in the individual surgical case.
- vii) Perform basic management procedures of general surgery like wound dressing, ABC management, suturing, transport of the injured and fluid therapy etc.
- viii) Discuss causation, manifestations, management and prognosis of surgical conditions.
- ix) Understand the miasmatic background of surgical disorders, wherever applicable.
- x) Apply Materia medica (therapeutics) and posology in common surgical conditions.
- xi) Understand the use of repertory in Homoeopathic prescriptions for surgical conditions.

3. Learning objectives (to be edited according to the II BHMS content)

At the end of II BHMS course, the learner shall be able to-

- i. Understand surgical case taking.
- ii. Understand common surgical symptomatology and its differential approach.
- iii. Demonstrate the basic management procedures of general surgery. Eg. dressing, ABC management and fluid therapy
- iv. Describe the concepts required to diagnose surgical clinical conditions taught in II BHMS.
- v. Understand the role of examination and investigation in diagnosing surgical disorders.
- vi. Identify referral criteria for medical emergencies and surgical conditions.
- vii. Classify symptoms and integration with repertory.
- viii. Understand applied Materia Medica and posology in common surgical conditions (taught in II BHMS) which can be managed with Homoeopathy.

4. Course content and its term-wise distribution

Sl. No.	Topic
Term I	
1.	Introduction to surgery, Scope and limitations of Homoeopathy in surgical conditions, Surgical diseases explained in relation to organon of medicine
2.	Trauma/Injury; different types of injuries- head injury; road traffic accident; injury to chest and abdomen
3.	Wound and wound healing; scars and keloids
4.	Haemorrhage and blood transfusion
5.	Shock; various types of shock
6.	Fluid, electrolyte and acid- base balance
7.	Burns and Skin grafting
8.	Nutrition
9.	Common surgical infections
Term II	
10.	Special infections
11.	Tumours and Cysts (Swellings)
12.	Hernia
13.	Ulcers
14.	Sinus and fistula

5. Teaching hours

5.1. Gross division of teaching hours

Surgery		
Year	Teaching hours- Lectures	Teaching hours- Non-lectures
II BHMS	92	24

5.2. Teaching hours theory

Sl. No.	Topic	Teaching hours
1.	Introduction to surgery, Scope and limitations of Homoeopathy in surgical conditions	3
2.	Injury – types Head injury; Road traffic accident; injury to chest, abdomen	10
3.	Wound & wound healing; Scar, keloid	5
4.	Haemorrhage Blood transfusion	4
5.	Shock	6
6.	Fluid, electrolytes and acid-base balance	6
7.	Burn, skin grafting	7
8.	Nutrition – consequents of malnutrition in surgical patients, nutritional requirement in surgical patients and methods of providing nutritional support	3
9.	Common surgical infections- Boil, Carbuncle, Abscess, Cellulitis, and erysipelas, Hidradenitis suppurativa, septicaemia, pyaemia	8
10.	Special infections-	8

	Tuberculosis, syphilis, acquired immunodeficiency syndrome, actinomycosis, leprosy, tetanus, infective gangrene	
11.	Concept of swellings- Tumours: Benign-Lipoma, fibroma, adenoma, neuroma, Neurilemmoma, Neurofibroma, Haemangioma Malignant-Carcinoma, sarcoma, fibrosarcoma; naevus, melanoma Cysts – Classification	12
12.	Hernia - Aetiology, General Classification, Abdominal hernias- Basic anatomy, Types, clinical features, management	10
13.	Ulcers	8
14.	Sinus and fistula	2
Total		92

5.3. Teaching hours Non-lecture

Sl No	Clinical	Hours
1	Case taking of surgical case	2
2	Examination of Trauma case, Transport of the injured	2
3	Examination of head injury case	2
4	Examination of wound, suture technique	1
5	Examination of haemorrhagic case	1
6	Examination of shock	1
7	Fluid, electrolytes and acid base balance - Clinical Examination and evaluation	1
8	Burns - Clinical Examination	1
9	Common surgical infections - Clinical Examination	2
10	Special infections - Clinical examination	2
11	Examination of swelling- cysts and tumours	2
12	Examination of hernia	2

13	Examination of ulcer	2
14	Examination of sinus, fistula	1
15	ABC management, wound dressing, fluid therapy	2
	Total	24

6. Content mapping (competencies tables)

6.1. Introduction to Surgery, scope and limitations of Homoeopathy in surgical conditions and surgical case taking -

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 1.1	HO	KH	Introduction to surgery	Describe surgical disease according to Hahnemann. Explain the importance of knowledge of surgical diseases for Homoeopathic practice	C/2	Must know	Lecture Small group discussion	Viva	MCQ SAQ	Organon
Hom UG-Sur-I 1.2	HO	KH	Scope and limitations of Homoeopathy in surgical conditions	Explain scope and limitations of Homoeopathy in surgical conditions	C/2	Must know	Lecture Small group discussion	Viva	SAQ	Organon

Hom UG- Sur-I 1.3	HO	KH	Homoeopathic perspective of surgical diseases	Classification of Disease Hahnemannian: Surgical disease	C/2	Must know	Lecture	Viva	LAQ	Organon
Hom UG- Sur-I 1.4	HO	KH	Homoeopathic perspective of surgical diseases	Explain the nature and significance of surgical disease on the basis of organon of medicine	C/2	Must know	Lecture	Viva	LAQ	Organon
Hom UG- Sur-I 1.5	KS	KH	Case taking of surgical cases	Discuss the steps of case taking in surgical conditions	C/2	Must know	Lecture, small group discussion	Viva	--	Organon Repertory and case taking
Hom UG- Sur-I 1.6	PC	SH	Case taking of surgical case	Observe surgical case taking in clinical set up	P/1	Must know	Observation Small group discussion	DOPS		--

6.2. Trauma/ Injury and examination of trauma case-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 2.1	KS	KH	Types of injury	Classify different types of injury/trauma according to causation and be effects	C/2	Must know	Lecture Audiovisual mode	Viva	MCQ SAQ	FMT
Hom UG-Sur-I 2.2	HO	KH	Homoeopathic therapeutics of injury	List homeopathic remedies that are commonly used for specific types of injuries	C/1	Must know	Lecture Small group discussion	Viva	SAQ	Materia Medica
Hom UG-Sur-I 2.3	KS	KH	Principles in the management of road traffic accident	Describe the components of primary survey in victims of road traffic accidents	C/2	Must know	Lecture/ small group discussion	Viva OSCE	SAQ LAQ	--

				Describe the components of Secondary survey in victims of road traffic accidents	C/2	Must know	Lecture/ small group discussion			
Hom UG-Sur-I 2.4	PBL	SH	Resuscitation in trauma cases	Demonstrate the steps of Basic life support - Initiation of resuscitation Opening of airway Defibrillation High quality CPR Ventilation-compression ratio Vascular access Termination of CPR	P/2	Must know	Skill lab training Audio visual aids DOPS	DOPS Viva	DOPS	---
Hom UG-Sur-I 2.5	KS	KH	Resuscitation of trauma case	Discuss the principles of ATLS – advance trauma care management	C/2	Must know	Skill lab training Audio visual aids Small group discussion DOPS	Viva DOPS	MCQ SAQ LAQ DOPS	--

Hom UG- Sur-I 2.6	KS	KH	Management of trauma case	Discuss the principles of pre-hospital care and causality management of a trauma victim including principles of triage	C/2	Must know	Skill lab training Audio visual aids Small group discussion Small project	Viva OSCE	MCQ SAQ LAQ	--
Hom UG- Sur-I 2.7	PBL	SH	Resuscitation in trauma cases	Demonstrate the steps of Basic life support	P/2	Must know	Skill lab training Audiovisual aid DOPS	Viva OSCE Small project	OSC E	---
Hom UG- Sur-I 2.8	PBL	SH	Management of trauma – Transport of injured	Demonstrate the transport of the injured in simulated setting	P/2	Desirable to know	Skill lab training Audiovisual aid	OSCE	OSC E	

6.3. Head injury; Examination of head injury case-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/ Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 3.1	KS	K	Head injury and intracranial pressure	State the Monro Kellie doctrine about intracranial pressure	C/1	Nice to know	Lecture	Viva	SAQ	--
				Enumerate the causes of raised intracranial pressure	C/2	Must know	Lecture		SAQ	
Hom UG-Sur-I 3.2	KS	KH	Head injury pathophysiology, types	Describe Pathophysiology of head injuries	C/2	Must know	Lecture Audiovisual aid	Viva Clinical simulation	MCQ SAQ	
				Explain different types of head injuries like concussion, skull fracture, intracranial haemorrhage and diffuse axonal injuries	C/2	Must know	Small group discussion Case based discussion			
Hom UG-Sur-I 3.3	KS	KH	Assessment of head injury	Describe Glasgow coma scale	C/1	Must know	Lecture/ small group discussion	Viva OSCE Mini-CEX	MCQ SAQ LAQ	

				Discuss the neurological assessment of a patient with head injuries	C/2	Must know	Audiovisual mode Clinical simulation			
Hom UG- Sur-I 3.4	KS	KH	Investigations and management of head injury	Enumerate the appropriate investigations to be done in case of head injury	C/2	Must know	Lecture/ small group discussion Audio visual aid	Viva Audiovisual aids	LAQ	Radiology
	HO	KH	Homoeopathic therapeutics for head injury	Discuss the Homoeopathic therapeutics for head injuries	C/1	Must know			SAQ	Materia Medica

6.4. Injury to chest and abdomen; Examination of chest and abdominal injury -

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 4.1	KS	KH	Clinical features, investigations and management of chest injuries	Describe the clinical features of chest injuries	C/2	Must know	Lecture Audiovisual aid Case based studies	Viva OSCE	SAQ LAQ	
				List the appropriate investigations required in a case of chest injury	C/2	Must know				
				Discuss the management of chest injury	C/2	Desirable to know				
Hom UG-Sur-I 4.2	KS	KH	Chest injuries - flail chest and stove-in chest	Define flail chest	C/1	Must know	Lecture Audiovisual aid	Viva	MCQ SAQ	
				Explain the clinical features of flail chest	C/2	Must know				
				Discuss the management of flail chest	C/2	Desirable to know				
				Explain stove-in chest	C/2	Nice to know				

Hom UG- Sur-I 4.3	KS	KH	Chest injuries -tension pneumothorax	<p>Define tension pneumothorax</p> <p>Enumerate the cause of tension pneumothorax</p> <p>Discuss the clinical features of tension pneumothorax</p> <p>Discuss the management of tension pneumothorax</p>	<p>C/1</p> <p>C/2</p> <p>C/2</p> <p>C/2</p>	<p>Must know</p> <p>Must know</p> <p>Must know</p> <p>Must know</p>	<p>Lecture</p> <p>Small group discussion</p> <p>Audiovisual aid</p> <p>Skill lab simulation</p>	<p>Viva</p> <p>OSCE</p>	<p>SAQ</p> <p>LAQ</p> <p>MCQ</p>	
Hom UG- Sur-I 4.4	KS	KH	Chest injury - Thoracotomy	<p>Enumerate the indications for Emergency thoracotomy</p>	C/2	Desirable to know	Lecture	Viva	SAQ	
Hom UG- Sur-I 4.5	KS	KH	Abdominal injury - Clinical features, investigations and management of abdominal injuries	<p>Explain the clinical presentations of blunt abdominal trauma</p> <p>Enumerate the relevant investigations to be advised in a case of blunt abdominal trauma</p>	<p>C/2</p> <p>C/2</p>	<p>Must know</p> <p>Must know</p>	<p>Lecture</p> <p>Audiovisual aid</p> <p>Small group discussion</p>	<p>Viva</p> <p>OSCE</p>	<p>MCQ</p> <p>SAQ</p> <p>LAQ</p>	

				Discuss the surgical management of blunt abdominal trauma	C/2	Desirable to know				
Hom UG-Sur-I 4.6	KS	KH	Abdominal injuries-splenic trauma	Describe the clinical presentation of splenic trauma	C/2	Must know	Lecture Audio visual aid Small group discussion	Viva OSCE	MCQ SAQ LAQ	
				Discuss the diagnosis of splenic trauma	C/2	Must know				
				Discuss the management of splenic trauma	C/2	Desirable to know				
Hom UG-Sur-I 4.7	KS	KH	Abdominal injuries-Hepatic trauma	Describe the clinical presentation of Hepatic trauma	C/2	Must know	Lecture Audiovisual aid Small group discussion	Viva	MCQ SAQ LAQ	
				Discuss the diagnosis of Hepatic trauma	C/2	Must know				
				Discuss the management of Hepatic trauma	C/2	Desirable to know				
Hom UG-Sur-I 4.8	KS	KH	Abdominal injuries-pancreaticoduodenal trauma	Describe the clinical presentation of pancreaticoduodenal trauma	C/2	Must know	Lecture Audiovisual aid	Viva	MCQ SAQ LAQ	

				Discuss the diagnosis of pancreaticoduodenal trauma	C/2	Desirable to know	Small group discussion			
				Discuss the management of pancreaticoduodenal trauma	C/2	Nice to know				
Hom UG- Sur-I 4.9	KS	KH	Abdominal injuries- Renal trauma	Explain the clinical presentations of renal trauma	C/2	Must know	Lecture Audiovisual aid Small group discussion	Viva	MCQ SAQ LAQ	
				Discuss the diagnosis of renal trauma	C/2	Desirable to know				
				Discuss the management of renal trauma	C/2	Nice to know				

6.5. Wounds and wound healing; Scar and keloid; Examination of wounds-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 5.1	KS	K	Types of wounds	Discuss various types of closed wounds Discuss various types of open wounds	C/1	Must know Must know	Lecture Small group discussion	Viva	MCQ SAQ	FMT
Hom UG-Sur-I 5.2	KS	KH	Wound healing process and its types	Discuss the various stages of wound healing Discuss the factors affecting the wound healing Discuss the types of wound healing	C/1 C/2 C/2	Must know Desirable to know Must know	Lecture Audiovisual aid Small project	Viva	SAQ MCQ	Pathology
Hom UG-Sur-I 5.3	PBL	SH	Examination of wound	Demonstrate the evaluation and assessment of wound	P/2	Must know	Audiovisual aid Case based discussion DOPS	Viva Clinical performance OSCE		

Hom UG- Sur-I 5.4	KS PBL	KH SH	Wound manageme nt	Describe the principles acute wound management Demonstrate cleaning and dressing of wound	C/2 P/2	Must know	Lecture Audio-video mode Skill lab simulation Clinical Demonstration Wound dressing Audiovisual aid Small group discussion DOPS Small project	Viva Clinical performanc e OSCE	SAQ	--
Hom UG- Sur-I 5.5	KS	K KH KH	Surgical site infections	Classify surgical site infections. Enumerate the risk factors of surgical site infections Discuss the clinical presentation of surgical site infections	C/1 C/2 C/ 2	Must know Must know Must know	Lecture Audiovisual aid Small group	Viva	MCQ SAQ LAQ	Pathology

	HO	KH	Homeopathic management of surgical site infections	Discuss the scope of Homoeopathy in surgical site infections. Discuss the Homeopathic therapeutics for surgical site infections	C/1 C/1	Must know Must know				
Hom UG-Sur-I 5.6	HO	KH	Wound management	Discuss the homoeopathic therapeutics for various types of injuries	C/2	Must know	Lecture	Viva	SAQ	Materia Medica Repertory
Hom UG-Sur-I 5.7	PBL	K SH KH	Wound management	Enumerate different types of Suture materials Demonstrate different types of Suture / knotting techniques Discuss the Principles of anastomosis	C/2 P/2 C/2	Desirable to know Nice to know Nice to know	Tutorial Small project Skill lab simulation Audiovisual aid DOAP Tutorial Audiovisual aid	Viva	SAQ	

Hom UG- Sur-I 5.8	KS	KH	Scars and keloid	Describe hypertrophic scar and keloid	C/2	Must know	Lecture	Viva	SAQ	
	HO			Discuss the management of Scars and Keloid along with Homoeopathic Therapeutics	C/2	Must know	Lecture	Viva	SAQ	Materia Medica

6.6. Haemorrhage, blood transfusion; Examination of a haemorrhagic case -

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/ Guilbe rt	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG- Sur-I 6.1	KS	K	Types of haemorrha ge	Enumerate types of haemorrhage	C/2	Must know	Lecture	Viva	MCQ SAQ	
Hom UG- Sur-I 6.2	KS	KH	Manageme nt of haemorrha ge	Explain the basic concepts of hemostasis and mechanism of Haemostasis	C/1	Nice to know	Lecture Audiovisual aid	Viva	SAQ LAQ	Physiology
Hom UG- Sur-I 6.3	HO	KH	Management of haemorrhage with homoeopathy	Discuss homoeopathic therapeutics for haemorrhage	C/2	Must know	Lecture	Viva	SAQ	Materia Medica Repertory

Hom UG- Sur-I 6.4	KS	KH	Blood transfusion and blood products	Enumerate the Indications for blood transfusion	C/1	Must know	Lecture Small group discussion OSCE Small project	Viva	SAQ	Pathology
				Explain the complications of blood transfusion	C/2	Must know		Viva	MCQ SAQ	
				Describe various blood products and appropriate indications for their use	C/2	Desirable to know				
Hom UG- Sur-I 6.5	KS	KH	Examination of haemorrhagic case	Discuss the assessment of patient with haemorrhage	C/1	Must know	Audiovisual aid Clinical demonstration Small group discussion DOPS	Viva OSCE	SAQ	
	PBL	SH		Demonstrate examination of a haemorrhagic case	P/2					
Hom UG- Sur-I 6.6	PBL	S	Blood transfusion procedure	Observe blood transfusion procedure	P/1	Nice to know	Observing blood transfusion procedure	Logbook	--	--

6.7. Shock; Examination of shock -

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 7.1	KS	KH	Shock types, pathophysiology	Define shock	C/1	Must know	Lecture	Viva	MCQ SAQ LAQ	Pathology Physiology
				Enumerate the various types of shock	C/2	Must know	Lecture			
				Explain the pathophysiology of shock	C/2	Desirable to know	Lecture Audiovisual aid			
Hom UG-Sur-I 7.2	KS	KH	Clinical features, investigations and management of shock	Explain the clinical features of shock	C/2	Must know	Lecture Audiovisual aid Small group discussion	Viva OSCE	MCQ SAQ LAQ	Pathology Practice of Medicine
				Discuss the diagnosis of various types of shock	C/2	Must know				
				Explain the complications of shock.	C/2	Must know				

				Discuss the management of shock	C/2	Must know				
Hom UG-Sur-I 7.3	HO	KH	Homeopathic therapeutics for shock	Discuss the homoeopathic therapeutics for shock	C/1	Must know	Lecture Small group discussion	Viva	SAQ	Materia Medica

6.8. Fluid, electrolyte and acid base balance; Clinical examination and evaluation-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 8.1	KH	K	Fluid, electrolyte and acid base balance	Describe the fluid compartments of the body	C/1	Desirable to know	Tutorial	Viva	MCQ SAQ	Pathology Physiology
Hom UG-Sur-I 8.2	KH	KH	Fluid, electrolyte and acid base balance	Identify the indications of fluid replacement	C/2	Must know	Lecture Small group discussion Small project	Viva OSCE	SAQ	Biochemistry
				Discuss the methods of estimation and replacement the Fluid and electrolyte in the surgical patient	C/2	Desirable to know				

Hom UG- Sur-I 8.3	KH	KH	Acid base balance	Enumerate the causes of metabolic acidosis	C/2	Must know	Lecture Small group discussion	Viva	MCQ SAQ	Biochemistry Pathology
				Describe the clinical features and laboratory findings of metabolic acidosis	C/2	Must know				
				Discuss the management of metabolic acidosis	C/2	Must know				
Hom UG- Sur-I 8.4	KH	KH	Acid base balance	Enumerate the causes of metabolic alkalosis	C/2	Must know	Lecture Small group discussion	Viva	MCQ SAQ	Biochemistry Pathology
				Describe the clinical features and laboratory findings of metabolic alkalosis	C/2	Must know				
				Discuss the management of metabolic alkalosis	C/2	Must know				

Hom UG- Sur-I 8.5	KS	KH	Acid base balance	Enumerate the causes of respiratory acidosis Describe the clinical features and laboratory findings of respiratory acidosis Discuss the management of respiratory acidosis	C/2 C/2 C/2	Must know Must know Must know	Lecture Small group discussion	Viva	MCQ SAQ	Biochemistry Pathology
Hom UG- Sur-I 8.6	KS	KH	Acid base balance	Enumerate the causes of respiratory alkalosis Describe the clinical features and laboratory findings of respiratory alkalosis Discuss the management of respiratory alkalosis	C/2 C/2 C/2	Must know Must know Must know	Lecture Audiovisu al aid	Viva	MCQ SAQ	Biochemistry Pathology

Hom UG- Sur-I 8.7	KS	KH	Electrolyte balance – Potassium	Enumerate causes of Hyperkalemia Describe the clinical features and diagnosis of hyperkalemia Discuss the management of Hyperkalemia	C/2 C/2 C/2	Must know Must know Must know	Lecture Small group discussion	Viva	SAQ	Biochemistry Practice of Medicine
Hom UG- Sur-I 8.8	KS	KH	Electrolyte balance – Potassium	Enumerate causes of Hypokalemia Describe the clinical features and diagnosis of hypokalemia Discuss the management of Hypokalemia	C/2 C/2 C/2	Must know Must know Must know	Lecture Small group discussion	Viva	SAQ	Biochemistry Practice of Medicine
Hom UG- Sur-I	KS	KH	Electrolyte balance – Sodium	Enumerate causes of Hypernatremia	C/2	Must know	Lecture	Viva	SAQ	Biochemistry Practice of Medicine

8.9				Describe the clinical features and diagnosis of hypernatremia	C/2	Must know	Small group discussion			
				Discuss the management of Hyponatremia	C/2	Must know				
Hom UG-Sur-I 8.10	KS	KH	Electrolyte balance – Sodium	Enumerate causes of Hyponatremia	C/2	Must know	Lecture Small group discussion	Viva	SAQ	Biochemistry Practice of Medicine
				Describe the clinical features and diagnosis of hyponatremia	C/2	Must know				
				Discuss the management of Hyponatremia	C/2	Must know				
Hom UG-Sur-I 8.11	KS	K	Electrolyte balance – Calcium	Enumerate causes of Hypercalcemia	C/2	Must know	Lecture Small group discussion	Viva	SAQ	Biochemistry Practice of Medicine
				Describe the clinical features and	C/2	Desirable to know				

				diagnosis of hypercalcemia	C/2	Nice to know				
				Discuss the management of Hypercalcemia						
Hom UG- Sur-I 8.12	KS	K	Electrolyte balance – Calcium	Enumerate causes of Hypocalcemia	C/2	Must know	Lecture	Viva	SAQ	Biochemistry Practice of Medicine
				Describe the clinical features and diagnosis of hypocalcemia	C/2	Desirable to know				
				Discuss the management of Hypocalcemia	C/2	Nice to know				

Hom UG- Sur-I 8.13	PBL	KH	Fluid, electrolyte and acid base balance	Describe the assessment of fluid, electrolyte and acid base balance in a surgical case	P/2	Must know	Case demonstrat ion	Clinical performanc e Case based discussion Assignment s	----	
		SH		Fluid replacement therapy	P/2		Skill lab, Simulation Clinical bedside training DOPS		----	

6.9. Burns, skin grafting; Clinical examination-

SL No	Competency	Miller	Content	SLO	Bloom/ Guilbe rt	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG- Sur-I 9.1	KS	K	Burns and skin grafting	Describe the pathophysiolo gy of burns	C/2	Must know	Lecture Audiovisual aid Skill lab simulation	Viva OSCE	MCQ SAQ LAQ	Physiology
		KH		Discuss the assessment of burn wound. Assessing size and depth of burns	C/2	Must know				

				Explain the principles of fluid resuscitation in burns cases	C/2	Desirable to know				
				Discuss the management of burn wound	C/2	Must know				
Hom UG-Sur-I 9.2	HO	KH	Burns and skin grafting	Discuss the scope of Homoeopathy in the management of burns Discuss the homoeopathic therapeutics for burns	C/2	Must know	Lecture small group discussion	Viva	SAQ	Materia Medica Repertory
Hom UG-Sur-I 9.3	PBL	SH	Burns and skin grafting	Examination of case of burns Assessment of burn wound	P/2	Desirable to know	Simulation and skill lab training DOPS	Logbook OSCE	--	--

Hom UG- Sur-I 9.4	KS	K	Burns and skin grafting	Enumerate the indications for skin grafting Describe the various types of skin grafting	C/2	Desirable to know	Lecture Audiovisual aid	Viva	SAQ	
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6.10. Nutrition-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/ Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG- Sur-I 10.1	KS	KH	Nutrition	Enumerate the causes of malnutrition in surgical patients	C/1	Must know	Lecture Small group discussion	Viva	SAQ	Physiology
				Discuss the consequences of malnutrition in surgical patient.	C/2	Desirable to know		Viva	SAQ	
Hom UG- Sur-I 10.2	KS	KH	Nutrition	Discuss the nutritional requirements of surgical patients	C/2	Must know	Lecture Audiovisual aid	Viva	SAQ	Physiology

				Explain the methods of providing nutritional support.			Skill lab simulation			
Hom UG-Sur-I 10.3	PBL	SH	Nutrition	Demonstrate various types artificial nutritional support in surgical patients	P/2	Desirable to know	Simulation skill lab Small project DOPS	Viva OSCE DOPS		

6.11. Common surgical infections; Examination of common surgical infections-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 11.1	KS	K	Boil	Define boil	C/1	Must know	Lecture	Viva	MCQ SAQ	Pathology
		KH		Discuss clinical features complications of boil	C/2					
Hom UG-Sur-I 11.2	KS	KH	Carbuncle	Define carbuncle	C/1	Must know	Lecture Audiovisual mode	Viva	MCQ SAQ	Pathology
				Describe the pathology of carbuncle	C/2	Must know				
				Discuss the clinical features complications of carbuncle	C/2	Must know				

Hom UG- Sur-I 11.3	KS	KH	Abscess	Define abscess Enumerate the various types of abscesses Explain clinical features of abscess Discuss the management of abscess	C/1 C/2 C/2 C/2	Must know	Lecture Audiovisual aid	Viva	MCQ SAQ	Pathology
Hom UG- Sur-I 11.4	KS	KH	Cellulitis and erysipelas	Define cellulitis Explain clinical features of cellulitis Define erysipelas Explain the clinical features of erysipelas	C/1 C/2 C/1 C/2	Must know Must know Must know Must know	Lecture Audiovisual aid	Viva	SAQ MCQ	Pathology

				Discuss the difference between cellulitis and erysipelas	C/2	Must know				
Hom UG-Sur-I 11.5	KS	KH	Hidradenitis suppurativa	Discuss the pathology of Hidradenitis suppurativa Explain the clinical features of Hidradenitis suppurativa	C/2 C/2	Must know Must know	Lecture	Viva	SAQ MCQ	Pathology
Hom UG-Sur-I 11.6	KS	K	Septicaemia and pyaemia	Define septicaemia. Enumerate the causes of septicemia discuss the clinical features of septicaemia	C/1 C/2	Must know Must know	Lecture Small group discussion	Viva	LAQ SAQ MCQ	Pathology
Hom UG-Sur-I 11.7	KS	K	Systemic inflammatory response syndrome	Define systemic inflammatory response syndrome (SIRS)	C/1	Must know	Lecture Audiovisual aid	Viva	LAQ SAQ MCQ	Pathology

		KH		Discuss the pathophysiology of SIRS	C/2	Desirable to know				
Hom UG-Sur-I 11.8	PBL	SH	Common surgical infections	Demonstrate the examination of a case of common surgical infections like boil, carbuncle, cellulitis, erysipelas, hidradenitis suppurativa etc	P/2	Must know	Small group discussion Clinical demonstration DOPS	Viva OSCE DOPS	Case based discussion Log book	
Hom UG-Sur-I 11.9	HO	K	Common surgical infections	Discuss the therapeutics with specific indications for common surgical infections like boil, carbuncle, cellulitis, erysipelas and hidradenitis suppurativa	C/2	Must know	Lecture	Viva	SAQ MCQ	Materia Medica Repertory

Hom UG- Sur-I 11.10	HO	KH	Common surgical infections Septicaemia and pyaemia	Discuss the role of Homoeopathy in septicemia and pyaemia Discuss the homoeopathic therapeutics for septicemia and pyaemia	C/2	Must know	Lecture Small group discussion	Viva	SAQ	Materia Medica Repertory
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6.12. Special infections; Clinical examination-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Gilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG- Sur-I 12.1	KS	KH	Tuberculosis	Describe the pathology of tuberculosis	C/1	Desirable to know	Lecture Audiovisual aid Small group discussion	Viva	LAQ SAQ MCQ	Pathology Practice of Medicine
				Explain the clinical features of tuberculosis	C/2	Must know				
					C/2	Must know				

				Discuss the diagnosis of tuberculosis						
Hom UG-Sur-I 12.2	KS	KH	Syphilis	Describe the pathology of syphilis Explain the types and clinical features of Syphilis	C/1 C/2	Desirable to know Must know	Lecture Audiovisual aid	Viva	LAQ SAQ MCQ	Pathology Practice of Medicine
Hom UG-Sur-I 12.3	KS	KH	AIDS	Discuss the pathogenesis of AIDS Explain the clinical features of AIDS	C/1 C/2	Desirable to know Must know	Lecture	Viva	LAQ SAQ MCQ	Pathology Practice of Medicine
Hom UG-Sur-I 12.4	KS	KH	Actinomycosis	Discuss the pathogenesis of Actinomycosis Describe the clinical features of Actinomycosis	C/2 C/2	Desirable to know Must know	Lecture	Viva	LAQ SAQ MCQ	Pathology Practice of Medicine
Hom UG-Sur-I 12.5	KS	KH	Leprosy	Discuss the pathogenesis of leprosy	C/1	Desirable to know	Lecture	Viva	LAQ SAQ MCQ	Pathology Practice of Medicine

				Explain the types and clinical features of leprosy	C/2	Must know				
Hom UG-Sur-I 12.6	KS	KH	Tetanus	Discuss the pathogenesis of Tetanus	C/1	Desirable to know	Lecture	Viva	LAQ SAQ MCQ	Pathology Practice of Medicine
				Explain the clinical features of Tetanus	C/2	Must know				
Hom UG-Sur-I 12.7	KS	KH	Infective gangrene	Define gangrene.	C/1	Must know	Lecture Audiovisual aid Small group discussion Case based discussion	Viva	LAQ SAQ MCQ	Pathology Practice of Medicine
				Enumerate the causes of gangrene	C/2	Must know				
				Discuss the clinical types of gangrene.	C/2	Must know				
				Describe the clinical features	C/2	Must know				
				Discuss the management of gangrene	C/2	Must know				

Hom UG-Sur-I 12.8	HO	K	Special infections	Discuss the homoeopathic therapeutics for special infections like Tuberculosis, Syphilis, AIDS, Actinomycosis, Leprosy and tetanus	C/2	Must know	Lecture/ small group discussion	Viva	SAQ MCQ	Materia Medica Repertory
Hom UG-Sur-I 12.9	HO	KH	Special infections – gangrene	Discuss the Homoeopathic therapeutics for Gangrene	C/1	Must know	Lecture/ small group discussion	Viva	SAQ MCQ	Materia Medica Repertory
Hom UG-Sur-I 12.10	PBL	SH	Special infections – gangrene	Demonstrate the Examination of case of gangrene	P/2	Must know	Clinical demonstration Audiovisual aid Skill lab training	Case based discussion OCSE	OSCE	

6.13. Concept of swelling- Tumours and Cysts; Clinical examination of swelling-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/ Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 13.1	KS	K	Swelling concept	Define Tumour	C/1	Must Know	Lecture	Viva	MCQ	Pathology

Hom UG- Sur-I 13.2	KS	KH	Tumours	Discuss the differences between benign and malignant tumours Differentiate different tumours like sarcoma, Fibrosarcoma, Naevus, Melanoma etc	C/2	Must Know	Lecture Audiovisual aid	Viva	SAQ LAQ	Pathology
Hom UG- Sur-I 13.3	HO	K	Tumours	Discuss Homoeopathic Therapeutics of Tumour	C/2	Must Know	Lecture	Viva	MCQ SAQ	Pathology Organon: Miasm Materia Medica
Hom UG- Sur-I 13.4	KS	K	Cyst	Define Cyst	C/1	Must Know	Lecture	Viva	MCQ	Pathology
Hom UG- Sur-I 13.5	KS	KH	Cyst	Explain Types of Cyst	C/2	Must Know	Lecture Audiovisual aid	Viva	SAQ LAQ	Pathology

Hom UG- Sur-I 13.6	HO	K	Cyst	Discuss the homoeopathic therapeutics for Cyst	C/2	Must Know	Lecture	Viva	MCQ SAQ	Pathology Organon: Miasm Materia Medica
Hom UG- Sur-I 13.7	KS	KH	Lipoma, Fibroma, Adenoma, Neuroma, Neurofibro ma, Haemangio ma	Explain Lipoma, Fibroma, Adenoma, Neuroma, Neurofibroma, Haemangioma	C/2	Must Know	Lecture Audiovi sual aid	Viva	SAQ LAQ MCQ	Pathology
Hom UG- Sur-I 13.8	HO	KH	of Lipoma, Fibroma, Adenoma, Neuroma, Neurofibr oma, Haemangi oma	Discuss the Homoeopathic therapeutics of Lipoma, Fibroma, Adenoma, Neuroma, Neurofibroma, Haemangioma	C/2	Must Know	Lecture Small group discussi on	Viva	MCQ SAQ LAQ	Pathology Organon: Miasm Materia Medica
Hom UG- Sur-I 13.9	PBL	SH	Tumour & Swelling	Demonstrate examination of Tumour and swelling of different types	P/2	Must Know	Clinical demonstra tion DOPS Small group discussion	OSCE	Mini- cex OSCE	

6.14. Hernia - Abdominal hernias, Basic Anatomy, Types causes, Clinical features Complications, Management; Examination of hernia case-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 14.1	KS	K KH	Hernia	Define Hernia Enumerate the causes of hernia Discuss the clinical classification of hernias Discuss the principles of management of hernias Discuss the operative approaches to hernias	C/1 C/2 C/2 C/2 C/2	Must Know Must know Must know Desirable to know Nice to know	Lecture Audiovisual aids Small group discussion	Viva	MCQ SAQ LAQ	Anatomy , Pathology
Hom UG-Sur-I 14.2	KS	KH	Inguinal hernia	Describe the basic anatomy of inguinal canal	C/1	Must know	Lecture Audiovisual aid Small group discussion	Viva	MCQ SAQ LAQ	Anatomy

				Discuss the types, clinical presentation and diagnosis of inguinal hernia	C/2	Must know				
				Discuss the surgical management of inguinal hernia	C/2	Nice to know				
Hom UG-Sur-I 14.3	KS	KH	Femoral hernia	Describe the basic anatomy of femoral canal Discuss the clinical features and diagnosis of femoral hernia Discuss the surgical management of Femoral hernia	C/1 C/2 C/2	Must know Must know Nice to know	Lecture Audiovisual aids Small group discussion	Viva	MCQ SAQ LAQ	Anatomy
Hom UG-Sur-I 14.4	KS	KH	Umbilical hernia	Describe the various types of umbilical hernia Discuss the clinical features and diagnosis of Umbilical hernia	C/2 C/2	Must know Must know	Lecture Audiovisual aids	Viva	MCQ SAQ LAQ	

Hom UG- Sur-I 14.5	KS	KH	Epigastric hernia	Explain the pathology of epigastric hernia Describe the clinical features of epigastric hernia	C/2 C/2	Must know Must know	Lecture Audiovisual aids	Viva	MCQ SAQ LAQ	
Hom UG- Sur-I 14.6	KS	KH	Incisional hernia	Describe etiology of incisional hernia Discuss the clinical features of incisional hernia Discuss the management of incisional hernia	C/2 C/2 C/2	Must know Must know Nice to know	Lecture Audiovisual aids	Viva	MCQ SAQ LAQ	
Hom UG- Sur-I 14.7	KS	KH	Spigelian hernia	Explain spigelian hernia	C/2	Desirable to know	Lecture Audiovisual aids	Viva	MCQ SAQ	
Hom UG- Sur-I 14.8	KS	KH	Lumbar hernia	Explain lumbar hernia	C/2	Desirable to know	Lecture Audiovisual aids	Viva	MCQ SAQ	

Hom UG- Sur-I 14.9	KS	KH	Traumatic hernia	Explain traumatic hernia	C/2	Desirable to know	Lecture Audiovisual aids	Viva	MCQ SAQ	
Hom UG- Sur-I 14.10	KS	KH	Obturator hernia	Explain obturator hernia	C/2	Desirable to know	Lecture Audiovisual aids	Viva	MCQ SAQ	
Hom UG- Sur-I 14.11	HO	KH	Hernia	Discuss the Homoeopathic Therapeutics for Hernia	C/2	Must Know	Lecture Small group discussion	Viva	MCQ/ SAQ/ LAQ	Pathology Organon: Miasm Materia Medica
Hom UG- Sur-I 14.12	PBL	SH	Hernia	Demonstrate examination of hernia	P/2	Must Know	Clinical demonstration DOPS Small group discussion	OSCE Mini-cex	Mini-cex	

6.15. Ulcers; Clinical examination of ulcer-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG-Sur-I 15.1	KS	K	Ulcer	Define Ulcer	C/1	Must Know	Lecture	Viva	MCQ	Pathology Organon: Miasm Materia Medica
Hom UG-Sur-I 15.2	KS	KH	Ulcer	Describe different classification of Ulcer	C/2	Must Know	lecture	Viva	MCQ SAQ LAQ	Pathology
Hom UG-Sur-I 15.3	HO	KH	Ulcer	Explain therapeutics of ulcer	C/1	Must Know	Lecture/ Small group discussion	Viva	MCQ/SAQ/LAQ	Pathology Organon: Miasm Materia Medica
Hom UG-Sur-I 15.4	PBL	SH	Ulcer	Demonstrate examination of ulcer	P/2	Must Know	Clinical demonstration DOPS OSCE Small group discussion	OSCE Mini-cex	OSCE Mini-cex	

6.16. Sinus and Fistula; Clinical examination of Sinus and Fistula-

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom/ Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
Hom UG- Sur-I 16.1	KS	K	Sinus and Fistula	Define sinus and fistula	C/1	Must Know	Lecture	Viva	MCQ	Pathology
Hom UG- Sur-I 16.2	KS	KH	Sinus and Fistula	Explain sinus and fistula	C/2	Must Know	Lecture	Viva	MCQ SAQ LAQ	Pathology Organon: Miasm Materia Medica
Hom UG- Sur-I 16.3	PBL	SH	Sinus and Fistula	Demonstrate examination of sinus and fistula	P/2	Must Know	Clinical demonstration DOPS Small group discussion	OSCE	OSCE	
Hom UG- Sur-I 16.4	HO	K	Sinus and Fistula	Explain therapeutics of sinus and fistula	C/1	Must Know	Lecture Small group discussion	Viva	MCQ SAQ LAQ	Organon: Miasm Materia Medica

7. Teaching learning methods

Lectures (Theory)	Non-lectures (Practical/Demonstrative)
Lectures	Clinical demonstration
Small group discussion	Problem based discussion
Integrated lectures	Case based learning
	Assignments
	Library reference
	Self-learning

8. Details of assessment

Note- The assessment in II BHMS shall be done only as Internal Assessment (IA) in terms of Periodical Assessments (PA) and Term Tests (TT) as detailed below. There shall not be any Final University Examination (FUE) at this level. The marks obtained in IA during II BHMS will be added to the marks of IA in the III BHMS University Examination.

Overall Scheme of Internal Assessment (IA)*

Professional Course/ Subject	Term I (1-6 Months)		Term II (7-12 Months)	
II BHMS/	PA I (end of 3 months)	TT I (end of 6 months)	PA II (end of 9 months)	TT II (end of 12 months)

Practice of Medicine	20 Marks Viva- A	100 Marks Clinical/Practical and Viva - E i) Viva voce -50 marks ii) Clinical/practical- 50 Surgical Case taking - 25marks (Mandatory); Examination of wound/Cleaning and dressing of wound/Demonstration of Steps of Basic life support/Transport of the injured /Demonstration of suturing technique. (<i>Demonstration of any one of the procedures mentioned</i>) – 25 marks	20 Marks Viva- B	100 Marks Clinical/Practical and Viva - F i) Viva voce -50 marks ii) Clinical/practical- 50 Surgical case taking and Examination of surgical case – 15+15=30 marks; Surgical case file (5 cases)-20 marks
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***Method of Calculation of Internal Assessment Marks in II BHMS for Final University Examination to be held in III BHMS:**

Marks of PA I	Marks of PA II	Periodical Assessment Average PA I+ PA II /2	Marks of TT I	Marks of TT II	Terminal Test Average TT I + TT II / 200 x 20	Final Internal Assessment Marks
A	B	D	E	F	G	D+G/2

9. List of recommended text/reference books

- Williams, N., O'Connell, P. R., & McCaskie, A. (2018).
- *Bailey and Love's Short Practice of Surgery, 27th Edition: the Collector's Edition*. Chapman and Hall/CRC.
- Sriram Bhat. (2019). *SRB's manual of surgery*. Jaypee Brothers.
- A concise text book of surgery, 11th edition – S Das
- Das, S. (2024). *A Manual on Clinical Surgery*. Jaypee Brothers Medical Publishers Pvt Limited.
- Sriram, B. M. (2019). *SRB's clinical methods in surgery*. Jaypee Brothers Medical Publishers.
- Kulkarni, S. (2002). *Surgery Therapeutics*. B. Jain Publishers.
- Lilienthal, S. *Homoeopathic Therapeutics*.
- Willis Alonzo Dewey. (2018). *Practical Homeopathic Therapeutics*. B. Jain Publishers.

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