

**Table of Specifications (ToS)  
FOR ALL M.S. PROGRAMMES (5-Years Only)**

**Part-II**

**Paper I (Fundamental Principles of Surgery)**

Sr.#	Topics /Sub-Topics	No. of SEQs	No. of MCQs
1.	History of surgery	-	01
2.	Preparing a patient for surgery		01
3.	Principles of operative surgery: asepsis, sterilization and antiseptics	01	-
4.	Surgical infections and antibiotics		01
5.	Basic principles of anaesthesia and pain management		
6.	Acute life support and critical care:		02
	• Pathophysiology and management of shock	01	-
	• Fluids and electrolyte balance/ acid base metabolism		-
7.	• Haemostasis, blood transfusion		-
8.	Trauma: assessment of poly trauma, triage, basic and advanced trauma	01	01
9.	Accident and emergency surgery		01
10.	Wound healing and wound management	-	01
11.	Nutrition and metabolism	-	01
12.	Principles of burn management	-	01
13.	Principles of surgical oncology	-	01
14.	Principles of laparoscopy and endoscopy	-	01
15.	Organ transplantation	-	02
16.	Informed consent and medicolegal issues	-	02
17.	Molecular biology and genetics	-	02
18.	Operative procedures for common surgical manifestations e.g. cysts, sinuses, fistula, abscess, nodules, basic plastic and reconstructive surgery	01	02
<b>Pre-operative assessment and management:</b>			
19.	Cardiorespiratory physiology	01	01
20.	Diabetes mellitus, Hypertension, Ischaemic Heart Disease(IHD)	01	03
21.	Renal failure, Hepatic Evaluation(Functional)		02
22.	Pathophysiology of blood loss	01	02
23.	Pathophysiology of sepsis		02
24.	Risk factors for surgery		02
25.	Principles of day surgery		01
26.	Management of comorbidity		02
<b>Intraoperative care:</b>			
27.	Safety in theatre	-	01
28.	Sharps safety	-	
29.	Diathermy, laser use	-	01
30.	Infection risks	-	01
31.	Radiation use and risks	-	01
32.	Tourniquets	-	01
33.	Principles of local, regional and general anaesthesia	01	-

Sr.#	Topics /Sub-Topics	No. of SEQs	No. of MCQs
<b>Post-operative care:</b>			
34.	Monitoring of postoperative patient	-	01
35.	Postoperative analgesia	-	01
36.	Fluid and electrolyte management	-	01
37.	Detection of impending organ failure	01	-
38.	Initial management of organ failure		-
39.	Complications specific to particular operation	-	01
40.	Critical care	-	01
<b>Blood products:</b>			
41.	Components of blood	-	02
42.	Alternatives to use of blood products	-	02
43.	Management of the complications of blood product transfusion including children	01	01
<b>Total</b>		<b>10 SEQs</b>	<b>50 MCQs</b>