ANAESTHESIOLOGY (CODE: AS)

COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical integration	Horizontal integration
		ANA	ESTH	ESIOLOGY	1			
aesthesiology as a specialty Number	er of comp	petencie	s: (04)	Number	of procedures that rec	quire certificati	on: (NIL)	
Describe the evolution of Anaesthesiology as a modern specialty	К	K	N	Lecture	Written/ Viva voce			
Describe the roles of Anaesthesiologist in the medical profession (including as a peri-operative physician, in the intensive care and high dependency units, in the management of acute and chronic pain, including labour analgesia, in the resuscitation of acutely ill)	К	К	N	Lecture	Written/ Viva voce			
Enumerate and describe the principle of ethics as it relates to Anaesthesiology	К	К	N	Lecture	Written/ Viva voce		AETCOM	
Describe the prospects of Anaesthesiology as a career	К	K	N	Lecture	Written/ Viva voce			
Enumerate the indications, describe the steps and demonstrate in a simulated environment, Basic Life Support in adults, children and neonates	er of com	n petenci SH	es: (02) Number	of procedures that req	uire certificati	on : (NIL) General Medicine, Pediatrics	
Enumerate the indications, describe the steps and demonstrate in a simulated environment, Advanced Life Support in adults and children	S	SH	N	DOAP session	Skill assessment		General Medicine	
	The student should be able to Describe the evolution of Anaesthesiology as a modern specialty Describe the roles of Anaesthesiologist in the medical profession (including as a peri-operative physician, in the intensive care and high dependency units, in the management of acute and chronic pain, including labour analgesia, in the resuscitation of acutely ill) Enumerate and describe the principle of ethics as it relates to Anaesthesiology Describe the prospects of Anaesthesiology as a career Number of the prospects of Anaesthesiology as a career Enumerate the indications, describe the steps and demonstrate in a simulated environment, Basic Life Support in adults, children and neonates Enumerate the indications, describe the steps and demonstrate in a simulated environment, Advanced Life Support in adults and	The student should be able to R/S/A/C Resthesiology as a specialty Describe the evolution of Anaesthesiology as a modern specialty Number of complete the roles of Anaesthesiologist in the medical profession (including as a peri-operative physician, in the intensive care and high dependency units, in the management of acute and chronic pain, including labour analgesia, in the resuscitation of acutely ill) Enumerate and describe the principle of ethics as it relates to Anaesthesiology Describe the prospects of Anaesthesiology as a career K Rumber of complete the indications, describe the steps and demonstrate in a simulated environment, Basic Life Support in adults, children and neonates Enumerate the indications, describe the steps and demonstrate in a simulated environment, Advanced Life Support in adults and	The student should be able to ANA Assesthesiology as a specialty Describe the evolution of Anaesthesiology as a modern specialty Describe the roles of Anaesthesiologist in the medical profession (including as a peri-operative physician, in the intensive care and high dependency units, in the management of acute and chronic pain, including labour analgesia, in the resuscitation of acutely ill) Enumerate and describe the principle of ethics as it relates to Anaesthesiology Describe the prospects of Anaesthesiology as a career K K K K K Enumerate the indications, describe the steps and demonstrate in a simulated environment, Basic Life Support in adults, children and neonates Enumerate the indications, describe the steps and demonstrate in a simulated environment, Advanced Life Support in adults and	The student should be able to K/S/A/C K/KH/ SH/P (Y/N)	ANAESTHESIOLOGY aesthesiology as a specialty Number of competencies: (04) Describe the evolution of Anaesthesiology as a modern specialty Describe the roles of Anaesthesiologist in the medical profession (including as a peri-operative physician, in the intensive care and high dependency units, in the management of acute and chronic pain, including labour analgesia, in the resuscitation of acutely ill) Enumerate and describe the principle of ethics as it relates to Anaesthesiology Describe the prospects of Anaesthesiology as a career K K N Lecture Lecture K N Lecture Indiopulmonary resuscitation Number of competencies: (02) Number Enumerate the indications, describe the steps and demonstrate in a simulated environment, Basic Life Support in adults, children and neonates Enumerate the indications, describe the steps and demonstrate in a simulated environment, Advanced Life Support in adults and	Assessment method Anaesthesiology as a specialty Number of competencies: (04) Number of procedures that red Written/ Viva voce Written/ Viva voce Written/ Viva voce Anaesthesiology Enumerate and describe the principle of ethics as it relates to Anaesthesiology Anaesthesiology Assessment method Anaesthesiology Number of procedures that red Written/ Viva voce Written/ Viva voce Written/ Viva voce Written/ Viva voce Mritten/ Viva voce Mrit	The student should be able to K/S/A/C K/KKH SH/P (Y/N) Learning method Assessment method required to certify P	The student should be able to KS/A/C K/KH/ SH/P (Y/N) Learning method Assessment method required to certify P

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical integration	Horizontal integration
AS3.1	Describe the principles of preoperative evaluation	К	KH	Υ	Lecture, Small group discussion	Written/ Viva voce			General Surgery, General Medicine
\S3.2	Elicit, present and document an appropriate history including medication history in a patient undergoing Surgery as it pertains to a preoperative anaesthetic evaluation	S	SH	Y	DOAP session, Bedside clinic	Skill station			General Surgery, General Medicine
\S3.3	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery	S	SH	Y	DOAP session, Bedside clinic	Skill station			General Surgery, General Medicine
\S3.4	Choose and interpret appropriate testing for patients undergoing Surgery	S	SH	Y	DOAP session, Bedside clinic	Skill station			General Surgery, General Medicine
\S3.5	Determine the readiness for General Surgery in a patient based on the preoperative evaluation	S	SH	Y	DOAP session, Bedside clinic	Skill station			General Surgery, General Medicine
\S3.6	Choose and write a prescription for appropriate premedications for patients undergoing surgery	S	SH	Y	DOAP session, Bedside clinic	Skill station		Pharmacology	
opic: Ge	neral Anaesthesia Numbe	r of comp	etencies	:: (07)	Number o	of procedures that requ	uire certificati	on : (NIL)	
AS4.1	Describe and discuss the pharmacology of drugs used in induction and maintenance of general anaesthesia (including intravenous and inhalation induction agents, opiate and non-opiate analgesics, depolarising and non depolarising muscle relaxants, anticholinesterases)	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
\S4.2	Describe the anatomy of the airway and its implications for general anaesthesia	К	KH	Υ	Lecture, Small group discussion	Written/ Viva voce		Human Anatomy	
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Lecture, Small group discussion, DOAP session Written/ Viva volume vol	voce voce
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Lecture, Small group discussion, DOAP session	voce
Number of procedures the	s that require certification: (NIL)
Lecture, Small group discussion Written/ Viva vo	voce
Lecture, Small group discussion Written/ Viva vo	voce Human Anatomy
	voce Human Anatomy
Lecture, Small group discussion, DOAP session	

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical integration	Horizontal integration
AS5.5	Observe and describe the principles and steps/ techniques involved in caudal epidural in adults and children	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			
\S5.6	Observe and describe the principles and steps/ techniques involved in common blocks used in surgery (including brachial plexus blocks)	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			General Surgery
opic: Po	st-anaesthesia recovery Nun	nber of co	mpetend	cies: (0	3) Numb	er of procedures that r	equire certific	cation: (NIL)	+
AS6.1	Describe the principles of monitoring and resuscitation in the recovery room	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			
\S6.2	Observe and enumerate the contents of the crash cart and describe the equipment used in the recovery room	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			
\S6.3	Describe the common complications encountered by patients in the recovery room, their recognition and principles of management	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			General Surgery
Topic: Into	ensive Care Management Number	er of comp	oetencie	s: (05)	Number o	of procedures that req	uire certificati	on: (NIL)	
AS7.1	Visit, enumerate and describe the functions of an Intensive Care Unit	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			
AS7.2	Enumerate and describe the criteria for admission and discharge of a patient to an ICU	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			General Medicine
AS7.3	Observe and describe the management of an unconscious patient	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Physiology	General Medicine

COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)			Number required to certify P	Vertical integration	Horizontal integration
Observe and describe the basic setup process of a ventilator	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Physiology	General Medicine
Observe and describe the principles of monitoring in an ICU	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			General Medicine
n and its management Numbe	r of comp	etencies	s: (05)	Number o	f procedures that requ	ire certificatio	on: (NIL)	
Describe the anatomical correlates and physiologic principles of pain	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Human Anatomy, Physiology	
Elicit and determine the level, quality and quantity of pain and its tolerance in patient or surrogate	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Physiology	
Describe the pharmacology and use of drugs in the management of pain	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Pharmacology	
Describe the principles of pain management in palliative care	К	KH	Υ	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Pharmacology	General Medicine
Describe the principles of pain management in the terminally ill	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Pharmacology	General Medicine
	Observe and describe the basic setup process of a ventilator Observe and describe the principles of monitoring in an ICU n and its management Describe the anatomical correlates and physiologic principles of pain Elicit and determine the level, quality and quantity of pain and its tolerance in patient or surrogate Describe the pharmacology and use of drugs in the management of pain Describe the principles of pain management in palliative care	Observe and describe the basic setup process of a ventilator Observe and describe the principles of monitoring in an ICU S n and its management Number of comp Describe the anatomical correlates and physiologic principles of pain Elicit and determine the level, quality and quantity of pain and its tolerance in patient or surrogate Describe the pharmacology and use of drugs in the management of pain Describe the principles of pain management in palliative care K	Observe and describe the basic setup process of a ventilator Observe and describe the 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Viva voce Physiology Physiology Physiology Physiology C K KH Y Lecture, Small group discussion, DOAP session DoAP session Describe the pharmacology and use of drugs in the management of K KH Y Lecture, Small group discussion, DOAP session Describe the principles of pain management in palliative care K KH Y Lecture, Small group Written/ Viva voce Pharmacology discussion, DOAP session Describe the principles of pain management in palliative care K KH Y Lecture, Small group Written/ Viva voce Pharmacology discussion, DOAP session Describe the principles of pain management in the terminally ill K KH Y Lecture, Small group Written/ Viva voce Pharmacology discussion, DOAP session Describe the principles of pain management in the terminally ill K KH Y Lecture, Small group Written/ Viva voce Pharmacology discussion, DOAP session

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AS9.1	Establish intravenous access in a simulated environment	S	KH	Υ	Small group discussion, DOAP session	Skill assessment			
AS9.2	Establish central venous access in a simulated environment	S	KH	Y	Small group discussion, DOAP session	Skill assessment			
AS9.3	Describe the principles of fluid therapy in the preoperative period	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			General Surgery
AS9.4	Enumerate blood products and describe the use of blood products in the preoperative period	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Pathology	General Surgery
Topic: Pa	tient safety Numbe	r of comp	etencies	s: (04)	Number o	f procedures that requ	ire certification	on: (NIL)	
AS10.1	Enumerate the hazards of incorrect patient positioning	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			
AS10.2	Enumerate the hazards encountered in the perioperative period and steps/techniques taken to prevent them	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce			
AS10.3	Describe the role of communication in patient safety	К	KH	Υ	Lecture, Small group discussion, DOAP session	Written/ Viva voce		AETCOM	General Surgery
AS10.4	Define and describe common medical and medication errors in anaesthesia	К	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		Pharmacology	General Medicine

Number	COMPETENCY	Domain	Level	Core	Suggested Teaching	Suggested	Number	Vertical integration	Horizontal
	The student should be able to	K/S/A/C		(Y/N)	Learning method	Assessment method	required to certify		integration
	Column C: K- Knowledge, S – Skill, A - Attitude / professionalism Column D: K – Knows, KH - Knows How, SH - Shows how, P- pe Column F: DOAP session – Demonstrate, Observe, Assess, Perf Column H: If entry is P: indicate how many procedures must be	rforms ind form.	depende	ntly,	ertification/ graduatio	n			
Integrat	tion								
				Phys	iology				
PY3.4	Describe the structure of neuro-muscular junction and transmission of impulses	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Anaesthesiology	
PY3.5	Discuss the action of neuro-muscular blocking agents	K	KH	Υ	Lecture, Small group discussion	Written/ Viva voce		Anaesthesiology Pharmacology	
PY11.14	Demonstrate Basic Life Support in a simulated environment	S	SH	Y	DOAP sessions	OSCE		General Medicine Anaesthesiology	
				Pharm	acology		I		
PH1.15	Describe mechanism/s of action, types, doses, side effects, indications and contraindications of skeletal muscle relaxants	К	KH	Y	Lecture	Written/ Viva voce		Anesthesiology, Physiology	
PH1.17	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of local anaesthetics	К	KH	Y	Lecture	Written/ Viva voce		Anesthesiology	
PH1.18	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of general anaesthetics, and preanaesthetic medications	К	КН	Y	Lecture	Written/ Viva voce		Anesthesiology	
				Foren	sic Medicine & Toxico	logy			

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FM2.19	Investigation of anaesthetic, operative deaths: Describe and discuss special protocols for conduction of autopsy and for collection, preservation and dispatch of related material evidences	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce		Anesthesiology, General Surgery	
		<u> </u>	G	Seneral	Medicine				1
IM13.17	Describe and enumerate the indications, use, side effects of narcotics in pain alleviation in patients with cancer	К	КВ	Y	Bedside clinic, small group discussion	short note/ Viva voce		Pharmacology	Anesthesiology
IM24.11	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of the elderly undergoing surgery	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce			Anesthesiology General Surgery
				General	Surgery				
SU11.1	Describe principles of Preoperative assessment.	К	KH	Υ	Lecture, Small group discussion	Written/ Viva voce			Anesthesiology
SU11.2	Enumerate the principles of general, regional, and local Anaesthesia.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Anesthesiology
SU11.3	Demonstrate maintenance of an airway in a mannequin or equivalent	S	SH	Y	DOAP session	Skill Assessment			Anesthesiology
SU11.5	Describe principles of providing post-operative pain relief and management of chronic pain.	К	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Anesthesiology
SU17.2	Demonstrate the steps in Basic Life Support. Transport of injured patient in a simulated environment	S	SH	Y	DOAP session	Skill assessment			Anesthesiology

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SU17.10	Demonstrate Airway maintenance and recognize and management of tension pneumothorax, hemothorax and flail chest in simulated environment	S	SH	Y		Skill Assessment/ Log book			Anesthesiology
				Orthop	paedics				
OR1.1	Describe and discuss the Principles of Pre hospital care and Casuality management of a trauma victim including principles of triage,	K/S/A/C	K, KH	Υ	1	Written/ Viva voce/ OSCE/ Simulation			General Surgery Anaesthesiology
OR13.2	Participate as a member in team for Resuscitation of Polytrauma victim by doing all of the following: (a) IV. access central - peripheral (b) Bladder catheterization (c) Endotracheal intubation (d) Splintage	S/A	KH / SH	Υ	1	OSCE with Simulation based assessment			Anaesthesiology