Basic Surgery

Objectives:

At the end of the course, the students will be able to

- State the causes, symptoms, signs and complications of common diseases like infection of tissue and wound infection, tumour, acute abdomen, diseases of rectum and anal canal, pelvis and perineum, Eye and E.N.T, teeth, emergency and traumatology, burn, fracture and dislocation.
- Recognise early, provide first aid (1st line management) and provide proper referral services to the patients of the common surgical diseases/problems.
- Perform sterilization and prevent infection procedurally; perform wound toilet, introduce, local anaesthetics during wound stitching, perform superficial simple wound suture & stitch removal dressing and wound bandaging; drain superficial abscess.
- Apply arm sling and immobilization the injured part; introduce of nasogastric tube, male & female urethral catheter.
- Give I/V fluids, I/M Injection to the patients as indicated
- Provide CPR (external cardiac massage, artificial respiration by mouth to mouth) to the patients of cardiorespiratory arrest.
- Provide early appropriate referral services to the patients of all surgical diseases/problems.

List of competencies to Acquire -

- Recognise early common surgical diseases /problems.
- Provide complete care to the patients of simplest surgical diseases/problems.
- Provide first aid (1st line management) of all common surgical diseases/problems.
- Refer early the patients of surgical diseases/problems to appropriate place when needed.

Contents	Learning Objectives	Traiı	ning /Learning ex	periences	Expected	Assessment
		Class-room	Practical /visit	Learning aids	hours /days	
General Surgery: Infection, Sterilization Wounds, Abscess, Cellulites, Ulcer, Carbuncle, Tetanus, Gangrene, Tumour	 At the end of learning session the students will be able to : State the principal of sterilization, perform sterilization and prevent infection procedurally. Mention the common causes of the listed disease, recognise the listed diseases by the symptoms and signs, mention the complications of the listed disease. Perform surgical toileting of wound, dress wound, stitch superficial uncomplicated wound, and remove stitch as per procedures. Perform draining of superficial abscess stepwise, and injecting local anaesthesia as per indications. Provide the 1st line management of infection, tetanus, gangrene. Recognise and differentiate clinically benign and malignant tumours. Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia Surgical and Sterilization Instruments Instruments and cleaning agents, antiseptics, medicines and dressing materials used for the procedures Patients	Lec-10 hrs Visit/Pr10 hrs	Written (SAQ) Viva & Clinical/ Practical

Contents	Learning Objectives	Training /Learning experiences			Expected	Assessment
		Class-room	Practical /visit	Learning aids	hours /days	
 Regional Surgery. Relating to thorax Breast lump Breast Abscess Relating to abdomen Acute abdomen Relating to rectum and anal canal Haemorrhoids Anal fissure Anal Fistula Relating to pelvis and perineum Acute and chronic retention of urine Haematuria Inguinal and scrotal swelling 	 At the end of learning session the students will be able to : State the causes, common symptoms, signs and complications of the listed diseases. Recognise early the listed diseases. Provide the 1st line management of the diseases. Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia Instruments for examination and medicines Patients	Lec- 12 hrs Visit/Pr16 hrs	Written (SAQ) Viva & Clinical/ Practical

Contents	Learning Objectives	Training /Learning experiences			Expected	Assessment
		Class- room	Practical /visit	Learning aids	hours /days	
Relating to Eye andE.N.T• Conjunctivitis• Stye, Chalazion• Foreign body in Ear• Wax• Epistaxis• Sore throat• Acute tonsillitis	 At the end of learning session the students will be able to : State the causes, common symptoms, signs and complications of the listed diseases. Recognise early the listed diseases. Provide the 1st line management of the diseases. Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia, Instruments for examination and medicines Patients	Lec-10 hrs Visit/Pr 10 hrs	Written (SAQ) Viva & Clinical/ Practical
 Relating to teeth Gingivitis Caries teeth 	 At the end of learning session the students will be able to : State the causes, common symptoms, signs and complications of the listed diseases. Recognise early the listed diseases. Provide the 1st line management of the diseases. Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia, Instruments for examination and medicines Patients	Lec-8 hrs Visit- 6 hrs	Written (SAQ) Viva & Clinical/ Practical
Surgical Emergency and Traumatology • Wound • Haemorrhage	 At the end of learning session the students will be able to : State the causes, common symptoms, signs and complications of the listed diseases. Recognise early the listed diseases. Provide the 1st line management of the diseases. Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals' emergency departments & Health centres	Black Board / White Board/ Multimedia Instruments and cleaning agents, antiseptics and dressing materials, medicines used for the procedures and Patients	Lec- 12 hrs Visit-20 hrs	Written (SAQ) Viva & Clinical/ Practical

Contents	Learning Objectives	Training /Learning experiences			Expected	Assessment
		Class-room	Practical /visit	Learning aids	hours /days	
 Shock : Types, causes, severity, complications and 1st line management IV fluids: Types of IV fluids, indication, procedures and complications of IV fluid administrations. 	 At the end of learning session the students will be able to : State types, causes and complications of shock. Recognise early different types of shock. Estimate the severity of shock with clinical signs and symptoms. State types of I/V fluid with their indication and procedure of I/V fluid administration. Provide 1st line management of shock. Provide proper referral services to the patients of shock. 	Lecture	Case demonstrati on in Hospitals & Health centres	Black Board / White Board/ Multimedia, Instruments, reagents, medicines and IV fluids and Patients	Lec- 10 hrs Visit- 8 hrs	Written (SAQ) Viva & Clinical/ Practical
 Types, causes , complication, determination of percentage of burn and 1st line management 	 At the end of learning session the students will be able to State types of burn and estimate the percentage of burn, complication and danger of burn. Mention the open and close method of treatment in simple burn. Provide 1st line of management of burn. Provide proper referral services to the patients of burn. 	Lecture	Case demonstrati on in Hospitals & Health centres	Black Board / White Board/ Multimedia Instruments and cleaning agents, antiseptics, medicines and dressing materials used for the procedures and Patients	Lec-8 hrs Visit-8 hrs	Written (SAQ) Viva & Clinical/ Practical

Contents	Learning Objectives	Training /Learning experiences			Expected	Assessment
		Class-room	Practical /visit	Learning aids	hours /days	
 Fracture and dislocation: Definition, types, sign symptoms and complications 	 At the end of learning session the students will be able to Recognise clinically fracture and dislocation State specific signs, symptoms complications of fracture of clavicle, tibia, humours, radius, ulna, femur Provide 1st-line conservative management of the common fractures with (First aid) proper positioning ensuring circulation wound toileting if necessary proper immobilization analgesic if necessary I/V fluid if necessary antibiotics if necessary appropriate transport procedure Provide adequate immediate care to prevent complications of fractures and dislocations by ensuring respiration, managing shock, controlling haemorrhage, and saving vital organs and adjacent tissues. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia, Instruments and cleaning agents, antiseptics and dressing, immobilization materials and medicines used for the procedures Patients	Lec-8 hrs Pr -16 hrs	Written (SAQ) Viva & Clinical / Practical

Contents	Learning Objectives	Training /Learning experiences			Expected	Assessment
		Class-room	Practical /visit	Learning aids	hours /days	
 Acute abdomen Acute appendicitis Acute Cholecystitis Acute Cholithiasis Acute exacerbation of Chronic D.U Acute hematemesis Perforation of hollow viscus Intestinal obstruction of different types 	 Recognise early different condition of acute abdomen clinically Provide 1st line conservative 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia Instruments and medicines for the procedures Patients	Lec- 12 hrs Pr -26 hrs	Written (SAQ) Viva & Clinical/ Practical

Practical Skill

The students must obtain necessary experiences as close observers and assistants on the following procedures at hospital indoor / outdoor / emergency department / health centres. Ultimately they must be competent enough at end of course on the listed procedures:

	Items	List of contents of gaining experiences	Assessment
1.	Skin and subcutaneous tissues	Wound toilet	
		• Superficial simple wound suture & stitch removal	
		Dressing and wound bandaging	
		Drain superficial abscess	
2.	Musculo-skeletal	• Apply arm sling and immobilization the injured part	Written (SAQ)
3.	Circulatory system	• Give I/V fluids	
		• I/M Injection	Viva &
		External cardiac massage	Clinical/ Practical
4.	Respiratory System	• Give artificial respiration by mouth to mouth	Chineal/ Tractical
		Oropharyngial suctions	
5.	Digestive system	Introduce nasogastric tube	
6.	Urinary system	Introduce male & female urethral catheter	
7.	Anaesthetics	Introduction of local anaesthetics during wound stitching	

The students must be able to recognise early and perform 1st line management and refer appropriately the following surgical conditions:

- Road traffic accident with unconsciousness
- Road traffic accident with vomiting
- Facial, maxillary and mandibular injuries
- Sever muscle and tendon injuries
- Crush injuries of the thorax injuries
- Penetrating wounds of thorax and abdomen
- Sever injuries involving pelvis and perineum
- Spinal and head injuries
- Acute abdomen
- Fracture and dislocation
- Lacerated and crush injuries
- Gunshot injuries