

Course title**Surgery II** , year III Students

Credit Hours 3

Contact hours.....**48 hrs**

Course Instructor.....**Dr. Messay A.**

Course Description

The main objective of the course is to familiarize Health officers with the fundamental knowledge about conducting surgery, and how to minimize risk while assisting or carrying out surgery.

Course Objective

After taking the course students will be able to:

"To provide basic knowledge in most prevailing surgical injuries from the stand point of major surgical disorders.

"To enable students to acquire the working skills under to handle the essential life saving surgical skills under rural settings.

Course content

- **UNIT I**

5. Orthopaedic surgery 8 hr

1.1. Osteomyelitis

" Acute

" Chronic

2.2. Arthritis

3.3. Fracture

" Mechanism, types, fracture healing

" Basic Principles of fracture

" Long bone fractures and their management

" Dislocations and fracture dislocations

" Childhood fractures and complications

4.4. Amputation and indications

6. Central nervous system.....4 hr

1.1. Head injuries

2.2. Spinal injuries

7. Anesthesia 4 hr

- o Local
- o Spinal
- o Ketamine

8. Evaluation and patient preparation 2 hr

- 1.1. General anesthesia
- 2.2. Regional anesthesia

9. Cardiopulmonary resuscitation.....2 hr

10. Vascular surgery - [Arteriosclerosis and varicose vein].....4 hr

11. Suture.....4 hr

- o Knot tying
- o one hand
- o two hand
- o instrument
- o deep knot tying
- o surgeon's knot
- o common faults
- " Laceration repair - scalp lacerations
- " Abscess draining
- " Excision of lymphoma
- o animal leg or simulator
- o cleaning, scrubbing, gowning, gloving and draping
- o video demonstration

- **UNIT II**

- 1. Basic life support.....4 hr**

- " CPR - mouth to mouth
 - " Venous cut down
 - " Advanced life support
 - " A, B, C, D rules
 - " Adult and pediatric intubations
 - " Air way management - [chest tube insertion and laryngotomy/tracheostom]

- **UNIT III**

- GI emergencies.....4 hr**

- "" laparatomy
 - " opening and closing
 - " patch repair
 - " intestinal anastomosis
 - " colostomy fashioning

- **UNIT IV**

- Urologic emergencies.....4hr**

- catheterization

urethral dilatation

suprapubic cystostomy

- **UNIT V**

Orthopedic emergencies.....4hr

" application of POP casts

"" tractions

"" amputations

- **UNIT VI**

Obstetric emergencies.....4 hr

-normal deliveries

-instrumental delivery

-operative delivery

- Seminar
- Midterm exam
- Final exam

Teaching methods

" Lecture

" Discussion

" Demonstration

" Case presentation

" Seminar and work shops

Assessment methods

- " Class attendance = 15%
- " Midterm = 40%
- " Final exam = 45%

Reference

- " Mastery of surgery, 4th edition ,Backer Fischer volume 162
- " Text book of surgery Tjandra Clunie kay smith 3rd edition.
- " Essential of surgery (Beckes stucchi)
- " Essentials of surgery 3rd edition , problems diagnosis and management
- " S&B;S manual of surgery, Bhat
- " Recent advance in surgery, Gupt
- " Manual of long and short case in surgery.