

## Phase 2- Course Description

1. Course title and code: **Clinical Skill Module, CSM 401**
2. Credit hours: 20 academic hours.
3. Level/year at which this course is offered: 4<sup>th</sup> year .
4. Pre-requisites for this course (if any): 4<sup>th</sup> yeacompletion of phase 1.

### General Objectives

What is the main purpose for this course?

By the end of this course student should be able to understand the common diseases manifestations, differential diagnosis, investigation and how to treat.

1. Course title and code: **Basic Imaging, CLC 434**
2. Credit hours: 3 hours.
3. Level/year at which this course is offered: 4th year.
4. Pre-requisites for this course (if any): Phase I.

### General Objectives

What is the main purpose for this course?

- Outline the basic principles in the production of images in different radiological modalities.
- Recognize the basic radiological anatomy.
- Identify the major radiological signs and features.
- List many radiological terminologies and their significance in the right text.
- Recognize the difference between anatomical and functional imaging.
- Match the radiological and clinical findings.
- List the indications, contraindication and limitation of the Radiological procedures.

1. Course title and code: **Laboratory medicine KAU, Code : CLC 436**
2. Credit hours: **44 hours** .
3. Level/year at which this course is offered: **4th year**.
4. Pre-requisites for this course (if any): **2nd and 3rd years should pass their final**.

### General Objectives

What is the main purpose for this course?

**The ultimate objective is to lay out the infrastructure of knowledge that prepares the student, for the challenges in the final years of study and most importantly to graduate doctors who are capable and self motivated when facing any clinical problems related to the laboratory medicine system through the Acquisition of:**

- Data interpretation skill
- Ability to use knowledge in problem solving
- The use and choice of testing along the diagnostic spiral
- Integration of the scientific data from clinical and laboratory origin to reach the diagnosis
- The emphasis on the systematic and logical use of laboratory test
- The utilization of laboratory in diagnosis, follow up, and prognostication

1. Course title and code: **Forensic Medicine And Toxicology, PATM 413**
2. Credit hours :**2 credit points**.
3. Level/year at which this course is offered: **Level Phase II / Fourth year**
4. Pre-requisites for this course (if any)
  1. **Anatomy, physiology, histology and biochemistry of the human body.**
  2. **General and systemic pathology.**

### General Objectives

What is the main purpose for this course?

Summary of the main **learning outcomes** for students enrolled in the course.

By end of this course the student will acquire basic knowledge -as a future general practitioner- about the forensic pathology and forensic medical sciences. The student will recognize the basic skills of dealing with forensic cases in their future careers. The student by the end of this course can be able to high light the

major problems in the community.

This course will develop the student skills to write a primary medico legal report as well as death certificate. The student by the end of this course will be able to use his basic skills and knowledge to predict and define the medico legal cases. **These skills to protect the doctors from mal practice and society from crimes and to help law comity in detect and solving the crimes by providing a good primary medical report that describes the wounds and the causative instrument also the right Death certificate will do .**

1. Course title and code: **Medical Ethics , METH412**
2. Credit hours : 2 (30 contact hours = 30 credit hours)
3. Level/year at which this course is offered: **Fourth Year**
4. Pre-requisites for this course (if any): **None**

### **General Objectives**

By the end of this course you will be able to:

- Describe the fundamental principles of Medical ethics and its relevance to clinical practice.
- Appreciate the relation between Medical ethics in medicine and the principles of Islamic teaching.
- Describe the current and future challenges in a world of globalization to physician's professionalism.

Develop the skill of ethical awareness, moral reasoning, synthesis of argument and counterargument.

1. Course title and code: **Community medicine clerkship, COMM431**
2. Credit hours : 7
3. Level/year at which this course is offered: **Fourth year Medical students**
4. Pre-requisites for this course (if any): **Course of biostatistics in the preparatory first year of university program**

### **General Objectives**

What is the main purpose for this course?

1. Recall a comprehensive overview of different disciplines of community medicine & preventive medicine.
2. Identify how to use various community medicine disciplines for practicing clinical and preventive medicine for patients & community as whole.
3. Gain effective self-directed learning skills.

1. Course title and code: **Otorhinolaryngology - Head & Neck ,(ENT 350)**

2. Credit hours : 3

3. Level/year at which this course is offered: fourth year

4. Pre-requisites for this course (if any):

Anatomy and physiology of the Ear

Anatomy & physiology of the nose & sinuses

Anatomy & physiology of the larynx

Anatomy & physiology of the pharynx

Anatomy of the neck

### General Objectives

What is the main purpose for this course?

To possess and apply a rational ORL-HNS examination and sound theoretical knowledge, this comes through a condensed theoretical & clinical exposure to common ORL disease.

1. Course title and code: **Ophthalmology ,(Course Code 501)**

2. Credit hours : 3 credit points

3. Level/year at which this course is offered: 4th Year

4. Pre-requisites for this course (if any): Finishing Phase 1

### General Objectives

1. This course will equip the students with the:

- Ability to recognize causes of acute and chronic visual loss and understand their systemic associations and make appropriate referrals.

-Understanding of the different mechanisms of open angle versus angle closure glaucoma.

- Recognizing optic disc changes of open angle glaucoma.

- Making appropriate referrals for patients with suspected glaucoma.

- Ability to determine the presence of strabismus.

- Understanding amblyopia, its assessment and the need of treatment referral.

- Significant of relative afferent pupillary defect.

- Interpretation of pupillary disorders.

- Interpretation of optic nerve disease.

- Ability to detect paralytic strabismus.
- Ability to detect, assess and differentiate conjunctival, corneal, uveal and scleral causes of inflammation.
- Understanding appropriate treatment modalities for uncomplicated red eye problem.
- Ability to recognize the signs of mild versus serious trauma and how to appropriately examine a traumatized eye.
- Ability to determine whether a patient's injured eye needs emergent, urgent or routine referral.

1. Course title and code: **Pediatrics , PEDIA 531**
2. Credit hours : **16 hours**
3. Level/year at which this course is offered: **5th Year**
4. Pre-requisites for this course (if any):

Anatomy , Embryology, Biochemical Basis of Medicine, Pathology, Musculoskeletal, Immune, Blood lymphatic, Cardiovascular, Respiratory, Urinary, Medical Microbiology, Medical Pharmacology, Medical Genetics, Gastrointestinal, Nervous and special senses, Endocrine, Reproductive, Nutrition and Metabolism, Basic imaging, Laboratory medicine, Forensic medicine, Professionalism, Otorhinolaryngology, Ophthalmology.

### General Objectives

#### What is the main purpose for this course?

#### At the end of this course the student is able to

- ❖ Tactfully approach children and their parents
- ❖ Understand the approach of pediatricians to the health care of children and adolescents
- ❖ Provide appropriate advice towards vaccination
- ❖ Acquire basic knowledge of growth and development (physical, physiologic and psychosocial) and of its clinical application from birth through adolescence.
- ❖ Acquire the knowledge necessary for the diagnosis and initial management of common pediatric acute and chronic illnesses.
- ❖ Develop appropriate communication skills that will facilitate the clinical interaction with children, adolescents and their families and thus ensure that complete, accurate data is obtained.
- ❖ Develop competency in performing a physical examination of infants, children and adolescents and interpret the findings.
- ❖ Utilize clinical problem-solving skills in reaching a diagnosis.
- ❖ Diagnose and manage common Pediatrics diseases by history, examination and using appropriate investigations.

- ❖ To be familiar and to know the interpretation of basic pediatric procedures such as lumbar puncture, tuberculin testing, septic screen, phlebotomy—etc.
- ❖ Develop strategies for health promotion as well as disease and injury prevention.
- ❖ Identify sick children and develop basic skills of pediatric emergency.
- ❖ Understand the influence of family and community on the child in health and disease.
- ❖ Develop the attitudes and professional behaviors appropriate for clinical practice.

1. Course title and code: **Psychiatry,501**
2. Credit hours : **6 Hours**
3. Level/year at which this course is offered: **5th Year**
4. Pre-requisites for this course (if any):

#### **General Objectives**

What is the main purpose for this course?

The main theme of the course is to understand the basics of psychopathology (symptoms and signs) of the most prevalent psychiatric disorders (mood, Anxiety, and Psychotic disorders). This will include knowing what is normal and abnormal in the emotional, cognitive, and behavioral manifestations of these disorders. Hence, the students will come out with the acknowledgment of the essential psychopathology. For example, he will know what is meant by symptoms like depressed mood, different types of anxiety, delusions and hallucinations. The course also will explore other parts like etiology, prevalence, epidemiology and treatment.

1. Course title and code: **Anesthesia and critical care, (ANS531)**
2. Credit hours : **2 Hours**
3. Level/year at which this course is offered: **5th Year**
4. Pre-requisites for this course (if any): **Nil**

#### **General Objectives**

What is the main purpose for this course?

students should have sufficient knowledge and understanding of:

- a. The proper function of the anesthesiologist.
- b. The definition, types, various medications and techniques, and stages of anesthesia.

- c. The appropriate way to perform preoperative assessment including taking proper history, performing adequate physical examination and requesting the needed investigations.
- d. Commonly used monitoring tools during anesthesia.
- e. The postoperative pain management.
- f. The principles and ethics related to anesthesia and the Islamic and legal responsibilities of the medical profession.
- g. Approach to critically ill patients and management of common critical illnesses e.g. septic shock.

1. Course title and code: **Family Medicine, code 504**
2. Credit hours : **8 Hours**
3. Level/year at which this course is offered: **5th Year**
4. Pre-requisites for this course (if any): **NON**

### **General Objectives**

1. Summary of the main learning outcomes for students enrolled in the course.

#### **A) Principles of Family Medicine Learning Objectives**

**At the end of the rotation, the student will be able to:**

**Five Family Medicine Principles - Values that define the profession, which should guide our educational activities**

- 1- **Context of Care**
- 2- **Continuity of Care**
- 3- **Comprehensive Care**
- 4- **Coordination of Care**
- 5- **Biopsychosocial Approach**

#### **B) Communication Skills Learning objectives**

**At the end of the rotation, the student will be able to:**

1. Share information with patients, families in a clear, respectful manner
2. Apply Pendleton's Seven Tasks Model Of Consultation
3. Demonstrate an ability to adapt his/her communication techniques based on a patient's age, and level of education
  - Write chart notes in a clear using the **SOAP** (subjective, objective, assessment & plan) format
  - Write clear and accurate orders for
    - Investigations and medications
    - Prescriptions
    - Referral letter

#### **C) Clinical Skills Learning Objectives**

**At the end of the rotation, the student will be able to:**

1. Demonstrate knowledge of clinical problems commonly seen in family medicine and their management.

2. Demonstrate an ability to assess and manage patients seen within the family medicine setting, including:
  - Take an accurate and appropriate history
  - Perform a focused and accurate physical exam
  - Develop an appropriate differential diagnosis
  - Order investigations in a focused and appropriate manner
  - Develop and implement an appropriate management plan
3. Recognize “red flags” which might indicate serious medical condition
4. Demonstrate and explain the indications for procedures commonly performed in family medicine
5. Demonstrate and apply knowledge of age and gender specific periodic health examination as presented in the Guide to Clinical Preventive Services (Report of the US Preventive Services Task Force)
6. Develop skills in health promotion, disease prevention, and health education and apply them in patient care
7. Demonstrate evidence based approach to the assessment and management of patients with multiple medical problems
8. Apply the patient -centered approach to patient encounters including:
  - **Identifying the patient’s ideas and concerns regarding his/her illness, the impact of the disease on his/her functioning and his/her expectations regarding treatment**
  - **Determining the psychosocial context of the patient’s disease**
  - **Involve patient in the development of a treatment plan**

1. Course title and code: **Obstetrics and Gynaecology - 604**
2. Credit hours : 16 credit points = 240 hours
3. Level/year at which this course is offered: 5th Year
4. Pre-requisites for this course (if any):
  - a. The basics of human embryology and mode of disease inheritance
  - b. The anatomy and physiology of female reproductive system
  - c. The pharmacology related to obstetrics and gynaecology medications
  - d. The basic clinical skills of comprehensive clinical history and examination
  - e. The basic understanding of the principles of medical ethics

### General Objectives

What is the main purpose for this course?

By the end of this course the student will utilize the basic sciences of human embryology, anatomy, histology and physiology to interpret female clinical and morphological changes.

The student should have sufficient knowledge about common obstetrics and gynaecology conditions and will be able to understand the natural history of diseases of particular effects on women.

The student will utilize his skills in taking history and performing clinical examination to formulate proper management particularly to conditions of acute danger on women life.

The student will acquire the attitude of team work and respect of values relevant by Islamic ethics.



1. Course title and code: **6th year Medicine Course, MEDM 00601**
2. Credit hours : **24 academic hours**
3. Level/year at which this course is offered: **6<sup>h</sup> year**
4. Pre-requisites for this course (if any): **4<sup>th</sup> year.**

### General Objectives

What is the main purpose for this course?

By the end of this course student should be able to understand the common diseases manifestations, differential diagnosis, investigation and how to treat.

1. Course title and code: **Surg 602**
2. Credit hours : **24 hours**
3. Level/year at which this course is offered: **6<sup>h</sup> year**
4. Pre-requisites for this course (if any): **Basic medical science & basic clinical skills.**

### General Objectives

#### 1. Summary of the main learning outcomes for students enrolled in the course

At the end of the course the student will be able to:

- Describe normal human development across the life-span and how these affect normal structure and function.
- Describe normal structure and function of the major systems and how they interrelate.
- Describe the molecular, biochemical and cellular basis essential for maintaining homeostasis.
- Demonstrate knowledge of the basic medical sciences that explain causes and mechanisms of disease.
- Describe the alterations in structure and function of major body systems as a result of illness or injury.
- Demonstrate knowledge and understanding of the pharmacological principles of treatment using drugs, their efficacy in the management and symptomatic relief of diseases, as well as their side effects.
- Discuss the implications of basic ethical principles, including confidentiality, informed consent, truth telling, and justice, for the care of patients.
- Recognize the legal background of medical practice
- Explain the causes and mechanisms of intoxication.
- Describe the role of family, community, and culture as factors influencing patient presentations, interpretations of illness episodes and adherence to treatment episodes.
- Demonstrate knowledge and understanding of the natural history of disease and relationships with risk factors and disease prevention.
- Recognize and discuss the principles of disease surveillance and screening, disease prevention, communicable disease control, health promotion, and health needs assessment.
- Describe strategies to support life-long learning via print and electronic sources to assist in making diagnostic and treatment decisions and to remain current with advances in medical knowledge and practice.

- Demonstrate knowledge of how to use the basic medical sciences and clinical skills for clinical decision making and problem solving in the care of patients.
- Recognize the scientific basis of health, disease, and medicine in the management of common and high impact conditions in the society.
- Demonstrate knowledge of the functional approach to managing chronic conditions, including knowledge of the impact of chronic illness on function.
- Demonstrate basic knowledge of the global health care delivery system in the community including physicians, hospitals, outpatient centers, health agencies and the role of community agencies in that system.
- Recognize the management of common emergencies and the initial and the life saving management steps for other emergencies.
- Identify the "red flags" indicating seriousness in the different clinical presentations.

1. Course title and code: **Patient Safety Module, (No code provided yet)**
2. Credit hours : 30 hours
3. Level/year at which this course is offered: 6<sup>h</sup> year
4. Pre-requisites for this course (if any): **Passing 5th year examination and promotion to 6th year.**

### General Objectives

What is the main purpose for this course?

Upon completing this module, the student should be able to:

- 1- Demonstrate an open-minded, understanding of human factors and medical errors.
- 2- Develop self-awareness of human factors of medical incidents/errors.
- 3- Recognize the basic legally sensitive issues in daily clinical practice
- 4- Understand how psychological stress, the workplace and hostile working environments can result in physical and psychological dysfunction leading to patient's harm.
- 5- Develop a positive attitude towards patients and families through engaging with patients and caregivers on a personal level through patient tracking and reflection.
- 6- Apply the skills of preventive measures of infection control, disaster planning and medication safety.
- 7- To demonstrate patient safety advocacy that will be reflected by their Patient Safety project.
- 8- Recognize the importance of utilizing the quality measures to improve patient safety.

1. Course title and code: **6 year Emergency Medicine Course. Surgery 602.**
2. Credit hours : 30 Hours: 11 hours lecture, 11 hours Clinical, 8 hours shifts
3. Level/year at which this course is offered: 6<sup>h</sup> year
4. Pre-requisites for this course (if any): Basic Emergency Care Module - 2th Year.

### General Objectives

What is the main purpose for this course?

The end of emergency module the student will be able to :

- A. Observe and become involved with the management of emergency conditions.
- B. Approach the following environmental Injuries:
  - ✓ Heat emergencies
  - ✓ Bites and stings
  - ✓ Trauma and envenomation from marine fauna
  - ✓ Dysbarism and complication of diving.
  - ✓ Drowning and near drowning.
- C. Approach the following toxicological Emergencies:
  - ✓ Pharmacology:
    1. Aspirin
    2. Paracetamol
    3. Iron
  - ✓ caustics
- D. understand the management of disaster.
- E. Understand the pre-hospital care (Emergency Medical Serviced “ EMS”).