

Course Title: internal medicine

Course Description: This course is designed to introduce the 5th year undergraduate Thi-Qar medical college students to the principles and practices of internal medicine and clinical practice. The course will cover the basics of medical practice including skills of history inquiry, physical examination, theoretical lectures of nephrology,neurology,hematology,and rheumatology as well as viral infectiology.

Course Duration: 90 hours of theory and 60 hours of practice

Course learning Units: 8 units .

Course General Objectives:

By the end of this course, students should be able to:

1. Explain the basic principles of history taking and systemic examination.
2. The students should be able to examine the body systems in an organized way.
3. Formulate a differential diagnoses.
4. Knows the basics of pathophysiology, and clinical presentation of systemic diseases.
5. Knowing well the specific investigations and treatment of a variety of systemic diseases.

Course Specific Objectives :

Explained for each lecture given to students .

Intended Learning Outcomes (ILOs):

Upon completion of this course, students will be able to:

- Knows and understand the basic principles of practice of medicine
- The ability to acquire a detailed medical history(accurate,organized,and problem-focused)--- Skill
- The ability to perform an accurate general physical examination as well as systemic examination of the patient appropriate for age, gender, mental and physical health status of the patient in a thorough, sensitive and systematic manner.

- After taking history the student should be able to present it in form of oral presentation and present the findings of general examination and systemic examination in a systematic way. This include chronologically organized development of the present illness, medication lists. Past history, and pertinent positives and negatives from family, social, drug histories.

Teaching strategy (overview):

- Objective – based learning
- Student-centered learning
- Active student interaction

Teaching and Learning Methods:

The course will use the following teaching and learning methods:

- **Theory sessions :**
 - **Lectures:** Knowledge acquisition
 - **Group discussion** - critical thickening
- **Practical sessions:**
 - **Site visit-observation:** Skill development and attitude formation. Visiting the medical ward , acquiring history, and performing physical examination on real patients to see physical signs.
 - **Case presentations:** Knowledge acquisition, skill development, and attitude formation
 - **Group discussions:** Knowledge acquisition, skill development, and attitude formation
- **Students feedback (course evaluation form)**

Course Outline:

The course will be divided into the following topics:

Blueprint for 5th year medical student in Thi-Qar college of medicine include:

I) 90 hours lectures: 3hr. /week including following topics:

(internal medicine Course Blueprint – 5th year)

| Topic | Lecture | lecturer | ILO |
|-------|---------|----------|-----|
|-------|---------|----------|-----|

| | Name | | | Assessment Method | | | | | | | Total Weight (impact X frequency) |
|----|--|-----------------------------------|-----------------------------------|-------------------|-----------|---------|---|-----------|------------------|------------------|--|
| | | | | Summative | | | | Formative | | | |
| | | | | Written | Practical | logbook | Course activities - quizzes and teaching file | Quiz | Group discussion | Project homework | |
| 1 | Introduction, signs and symptoms in nephrology | Assist ProfessorDr. Dheyaa khalaf | K4,k5,k8 S1.s2,S3,S4 | X | X | | | X | | x | 20 |
| 2 | Investigations for renal disorders | Assist,Prof.Dr, Dheyaa Khalaf | K1,K5,K8 S2,S5,S1,S3,S4 | X | X | | | X | | x | 20 |
| 3 | nephritic syndrome | Dr.Dheyaa Khalaf | K1,K2,K4,K5,K8 S1,S2,S3,S4,S5, | X | X | | | X | X | x | 28 |
| 4 | Rapidly progressive glomerulonephritis | Dr.Dheyaa Khalaf | K1,K2,K4,K5,K8 S1,S2,S3,S4,S5 | X | X | | | X | X | X | 28 |
| 5 | Nephrotic syndrome | Dr.Dheyaa Khalaf | K1,K2,K4,K5,K8 S1,S2,S3,S4,S5 | X | X | | | X | X | X | 28 |
| 6 | Mixed nephritic-nephrotic | Dr.Dheyaa Khalaf | K1 K4,k8,K5 S1,S2,S3,S4,S5 | X | X | | | X | X | X | 28 |
| 7 | Asymptomatic glomerular abnormalities | Dr.Dheyaa Khalaf | K1,K4.K5.K8 S4,S5,S1,S2,S3 | X | X | | | X | X | X | 28 |
| 8 | Interstitial nephropathy | Dr.Dheyaa Khalaf | K1,K5,K8,K4 S1,S2,S3,S4,S5 | X | X | | | X | X | x | 15 |
| 9 | Urinary tract infections | Dr.Dheyaa Khalaf | K1,K8,K4,K5 S5,S1,S2,S3,S4 | X | X | | | X | X | x | 29 |
| 10 | Cystic and malignant renal disorders | Dr.Dheyaa Khalaf | K1,K4,K5,K8 S1,S2,S3,S4,S5 | X | X | | | X | X | X | 20 |
| 11 | Acute kidney injury L1 | Dr.Dheyaa Khalaf | K1,K5,K8 S5,S2,S3,S4 | X | X | | | X | X | x | 28 |
| 12 | Chronic kidney disease | Dr.Dheyaa Khalaf | K1,K5,K8,K4 S5,S2,S3,S4,S1 | X | X | | | X | X | X | 20 |
| 13 | Management of chronic kidney disease | Dr.Dheyaa Khalaf | K4,K5,8,K1 S5,S2,S3,S4,S1 | X | X | | | X | X | X | 19 |
| 14 | Renal replacement therapy | Dr.Dheyaa Khalaf | K4,k5,K8,K1,K3 S2,S3,S4 | X | X | | | X | X | X | 19 |
| 15 | Acute Kidney injury L2 | Dr.dheyaa Khalaf | k8,K5,K1, S4,S3,S2,S5 | X | X | | | X | X | x | 16 |
| 16 | ITP | Dr.Amer shareef | K1,K8,K4,K5 S1,S2,S3,S4,S5 | X | X | | | | X | x | 21 |
| 17 | Von-willebrand disease | Dr.Amer Shareef | K1,K8,K4,K5 S5,S2,S1,S3,S4 | X | X | | | | X | X | 19 |
| 18 | hemophilia | Dr.Amer Shareef | K1,K8,K4,K5 S1,S2,S3,S4,S5 | X | X | | | | X | X | 19 |

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|----|------------------------------|-----------------|-------------------------------|---|---|--|--|--|---|---|----|
| 19 | TTP | Dr.Amer Shareef | K1,K4,K8,K5 S1,S2,S3,S4,S5 | X | X | | | | X | x | 17 |
| 20 | Acute leukemia | Dr.Amer Shareef | K1,K8,k4,K5 S1,S3,S5,S2,S4 | X | X | | | | X | x | 14 |
| 21 | Chronic lymphatic leukemia | Dr.Amer Shareef | K1,K8,K4,K5 S1,S3,S5,S4,S2 | X | X | | | | X | x | 20 |
| 22 | Multiple myeloma | Dr.Amer Shareef | K1,K4,K5,K8 S1,S3,S5,S4,S2 | X | X | | | | X | x | 20 |
| 23 | lymphoma | Dr.Amer Shareef | K1,K4,K5,K8 S1,S2,S4,S3,S5 | X | X | | | | X | x | 16 |
| 24 | Myeloproliferative neoplasms | Dr.Amer Shareef | K1,K4,K5,K8 S1,S5,S2,S3,S4 | X | X | | | | X | X | 20 |
| 25 | Chronic myeloid leukemia | Dr.Amer Shareef | K1,K4,k5,K8 S1,S2,S3,S4,S5 | X | X | | | | X | x | 25 |
| 26 | CNS infections L1 | Dr.Hazem Ali | K1,k5,K8,K4 S1,S2,S3,S4 | X | X | | | | X | x | 22 |
| 27 | CNS infections L2 | Dr.Hazem Ali | K1,K5,K8,K4 S1,S2,S3,S4 | X | X | | | | X | X | 22 |
| 28 | CNS infections L3 | Dr.Hazem Ali | K1,k5,K8,K4 S1,S2,S3,S4 | X | X | | | | X | X | 22 |
| 29 | Demyelinating disease L1 | DR.Hazem Ali | K1,K4,K8,K5 S1,S2,S3,S4 | X | X | | | | X | X | 14 |
| 30 | Demyelinated disease L2 | Dr.Hazem Ali | K1,K4,K8,K5 S1,S2,S3,S4 | X | X | | | | X | x | 12 |
| 31 | Movement disorders L1 | DR.Hazem Ali | K1,k4,K5,K8 S1,S2,S3,S4,S5 | X | X | | | | X | x | 14 |
| 32 | Movement disorders L2 | Dr.Hazem Ali | K1,k4,k5,K8 S1,S2,S3,S4,S5 | X | X | | | | X | x | 16 |
| 33 | Spinal cord disorders L1 | Dr.Hazem Ali | K1,k8,k5,K4 S1,S2,S3,S4,S5 | X | X | | | | X | x | 19 |
| 34 | Spinal cord disorders L2 | Dr.Hazem Ali | K1,k8,k5,K4 S1,S2,S3,S4,S5 | X | X | | | | X | x | 19 |
| 35 | Peripheral nerve disease L1 | DR.Hazem Ali | K1,k4,k8,K5 S1,S2,S3,S4 | X | X | | | | X | x | 20 |
| 36 | Peripheral nerve disease L2 | DR.Hazem Ali | K1,k4,K8,K5 S1,S2,S3,S4 | X | X | | | | X | X | 14 |
| 37 | Myopathy | Dr.Hazem Ali | K1,k4,k5,K8 S1,S2,S3,S4,S5 | X | X | | | | X | x | 22 |
| 38 | Myasthenia gravis | Dr.Hazem Ali | K1,k5,k4,K8 S1,S2,S3,S4,S5 | X | X | | | | X | x | 17 |
| 39 | Spinal cord L1 | Dr.Hazem Ali | K1,k4,K5,K8 S1,S2,S3,S5,S5 | X | X | | | | X | x | 19 |
| 40 | Spinal cord L2 | Dr.Hazem Ali | K1,k4,K5,K8,S1,S2,S3,S4,S5 | X | X | | | | X | X | 17 |
| 41 | Neuroanatomy and physiology | Dr.Abbas Fadhel | K2,k4,S4 | X | X | | | | X | x | 25 |
| 42 | Neurological investigations | Dr.Abbas Fadhel | S4,k4 | X | X | | | | X | X | 20 |

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| 43 | Headache and facial pain | Dr.Abbas Fadhel | K3,k4,k5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | x | 19 |
| 44 | Primary headache disorders | Dr.Abbas Fadhel | K3,k4,K5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | x | 17 |
| 45 | Higher cerebral dysfunction | Dr.Abbas Fadhel | K3,k4,K5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | x | 20 |
| 46 | Motor control disorders | Dr.Abbas Fadhel | K3,k4,k5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | X | 16 |
| 47 | Sensory pathway disorders | Dr.Abbas Fadhel | K3, K4,K5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | X | 19 |
| 48 | Intracranial hemorrhage | Dr.Abbas Fadhel | K3,k4,k5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | X | 20 |
| 49 | Pathogenesis, epidemiology and etiology of stroke | Dr.Abbas Fadhel | K3,k4,k5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | x | 25 |
| 50 | Ischemic stroke | Dr.Abbas Fadhel | K3,k4,K5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | X | 17 |
| 51 | Subarachnoid hemorrhage | Dr.Abbas Fadhel | K3,k4,K5,k6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | x | 20 |
| 52 | Epilepsy pathogenesis and classification | Dr.Abbas Fadhel | K3,k4,k5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | X | 16 |
| 53 | Status epilepticus | Dr.Abbas Fadhel | K3,k4,k5,K6 S1,S2,S3,S4,S5,S6 | X | X | | | | X | x | 19 |
| 54 | Iron deficiency anemia | PROFESSOR Dr .Basem athayeb | K1,k4,k5,K8 S3,S1,S4,S2,S5 | X | X | | | | X | X | 20 |
| 55 | Megaloblastic anemia | Prof,Dr.Basem Otheyeb | K1,k4,k5,K8 S1,S2,S4,S5,S3 | X | X | | | | X | X | 25 |
| 56 | Megaloblastic anemia | Prof.dr.Basem Otheyeb | K1,k4,K5,k8 S1,S2,s4,s5,s3 | X | X | | | | X | X | 20 |
| 57 | Aplastic anemia | Prof.dr.Basem Otheyeb | K1,k3,k8,K2,K4,K5 S1,S2,S3,S4,S5 | X | X | | | | X | x | 16 |
| 58 | Sickle cell disease | Professor,Dr.Basem otheyeb | K1,k4,k5,k8 S1,S2,S3,S4,S5 | X | X | | | | X | X | 17 |
| 59 | thalassemia | Professor,Dr.Basem Otheyeb | K1,k4,k8,K5,S1,S,2S,3,S4,S5 | X | X | | | | X | x | 19 |
| 60 | G6PD deficiency | Prof,Dr.Basem Otheyeb | K1,k4,k8,K5,S1,S2,S3,S4,S5, | X | X | | | | X | x | 20 |
| 61 | Autoimmune hemolytic anemia | Prof,Dr.Basem Otheyeb | K1,K4,K5,K8,K3,S1,S2,S3,S4,S5 | X | X | | | | X | x | 17 |
| 62 | sciatica | Dr.fathel al saeedy | K1,K4,K5,K8 S1,S2,S3,S4 | X | X | | | X | X | X | 19 |
| 63 | SLE | Dr.fathel saeedy | K1,K2,K4,K5,K8,K3 S1,S2,S3,S4,S5 | X | X | | | X | X | x | 20 |
| 64 | Rheumatoid arthritis | Dr.Fathel Al Saeedy | K4,K5,K8,K1,K3,K2 S3,S1,S4,S5,S2 | X | X | | | X | X | X | 25 |
| 65 | Seronegative spondiloarthritis | Dr.Fathel Alsaeedy | K5,K4,K8,K1,K2,K3 S4,S5,S1,S2,S3 Ab1 | X | X | | | X | X | X | 19 |
| 66 | Antiphospholipid syndrome | Dr.Fathel Al saeedy | K4,K8,K1,K2, ,K5 S1,S3,S4,S2,S5 AB1 | X | X | | | X | X | X | 17 |

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|----|-------------------------------|---------------------|---|---|---|--|--|---|---|---|----|
| 67 | Gout | Dr.Fathel Al saeedy | K4,K8,K1,K5,K2,K3 S4,S5,S1,S2,S3 | X | X | | | X | X | X | 20 |
| 68 | vasculitis | Dr.Fathel Al saeedy | K3,K8,K1,K4,K5 S4,S5,S1,S2,S3 | X | X | | | X | X | X | 20 |
| 69 | Behcet disease | Dr.Fathel Al saeedy | K4,K8,K1,K5 S4,S5,S1,S2,S3 | X | X | | | X | X | x | 19 |
| 70 | Osteomalacia and osteoporosis | Dr.Fathel Al saeedy | K4,K8,K5,K1,K2 S4,S5,S1,S2,S3 | X | X | | | X | X | X | 25 |
| 71 | Sjogren syndrome | Dr.Fathel AL saeedy | K1,K8,K4,K5 S2,S3,S4,S1,S5 | X | X | | | X | X | x | 20 |
| 72 | Vasculitis L2 | Dr.Fathel Al saeedy | K1,K8,k4,k5,K3 S2,S3,s4,S1,S5 | X | X | | | X | X | X | 22 |
| 73 | SLE lec 2 | Dr.Fathel alsaeedy | K4,K5,K8,K3,K1,K2 S1,S2,s3,s4,s5 | X | X | | | X | X | X | 20 |
| 74 | Rheumatoid arthritis L2 | Dr.Fathel Alsaedy | K4,K5,K8,k1,k2,k3 S1,S2,S3,s4,s5 | X | X | | | X | X | X | 17 |
| 75 | Measles | Dr.Haider Shaheed | K5,K8,K1,K4, S2,S3,S5,S4,S1,S15,AB1 | X | X | | | | X | X | 19 |
| 76 | rubella | Dr.Haider Shahheed | K5,K8,k1,K4 S2,S3,s5,S1,S4,S15,AB1 | X | X | | | | X | X | 16 |
| 77 | HIV L1 | Dr.Haider Shaheed | K5,K4,K8,K1 S3,S4,S2,S1,S1 ,AB1, | X | X | | | | X | x | 20 |
| 78 | HIV L2 | Dr.Haider Shaheed | K5,K4,K8,K1 S3,S4,S2,S1,S15 ,AB1 | X | X | | | | X | X | 22 |
| 79 | Herpes simplex | Dr.Haider Shaheed | K5,K4,K8,k1,S1,S2,S3,S4,AB1 | X | X | | | | X | X | 25 |
| 80 | Herpes simplex | Dr.Haider Shaheed | K5,K4,K1,k8,K1,S1,S2,S3,S4,s 5,S15,AB1 | X | X | | | | X | X | 19 |
| 81 | Infectious mononucleosis | Dr.Haider Shaheed | K5,K8,K4,K1,S4,S15,S1,S2,S3, AB1 | X | X | | | | X | X | 17 |
| 82 | COVID-19 L1 | Dr.Haider Shaheed | K4,K5,k1,k8 S15,S4,s1,s2,s3,AB1 | X | X | | | | X | X | 18 |
| 83 | COVID-19 L2 | Dr.Haider Shaheed | K4,K5,K1,K8 S15,S4,S1,S2,S3,AB1 | X | X | | | | X | x | 19 |
| 84 | Hemorrhagic fever | Dr.Haider Shaheed | K1,K8,K4,K5 S15,S1,S2,S3,S4,AB1 | X | X | | | | X | X | 20 |
| 85 | Mumps | Dr.Haider Shaheed | K1,K8,K4,K5 S2,S1,S3,S4,S15,S5,AB1 | X | X | | | | X | x | 22 |
| 86 | Parvo B-19 | Dr.Haider Shaheed | K5,K1,K8,K4 S3,S1,S15,S2,S4,S5,AB1 | X | X | | | | X | x | 20 |
| 87 | myopathy | Dr.Hazem Ali | K4,K5,K8.K1,S1,S2,S3,S4,S5 | X | X | | | | X | X | 19 |
| 88 | Influenza L1 | Dr.Haider Shaheed | K4,K5,K1,K8,S1,S2,S3,S4,S15, AB1 | X | X | | | | X | x | 17 |

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|----|--------------|-------------------|----------------------------------|---|---|--|--|--|---|---|----|
| 89 | Influenza L2 | Dr.Haider Shaheed | K4,K5,K1,K8,S1,S2,S3,S4,S15, AB1 | X | X | | | | X | x | 18 |
| 90 | rabies | Dr.Haider Shaheed | K4,K5,K8,K1 S1,S2,S3,S4,S5 AB1 | X | X | | | | X | X | 19 |

II) 30 hours practical sessions: 8 small groups: 2Hrs/days for each group,8 hours/week weeks for 4 weeks

Course evaluation form:

The educational objectives were also used to develop a course evaluation form. The form comprises three sections in which students are asked to rate general course characteristics, accomplishment of the general objectives, and usefulness of several learning activities. In addition, students are asked to write comments and suggestions for improvement.

These three formal student evaluations provide documentation on student achievement on almost all of the objectives. Examples from each section are shown in the table below.

TABLE: COURSE EVALUATION FORM (students feedback)

A- Course analysis

| | Very strongly Disagree | Strongly disagree | Disagree | Agree | Strongly agree | Very strongly agree |
|--|------------------------|-------------------|----------|-------|----------------|---------------------|
| In general : | | | | | | |
| 1-The course objectives were well defined . | 1 | 2 | 3 | 4 | 5 | 6 |
| 2- the course was well organized. | 1 | 2 | 3 | 4 | 5 | 6 |
| 3- the lectures were informative. | 1 | 2 | 3 | 4 | 5 | 6 |
| 4- I saw an adequate number and variety of clinical cases | 1 | 2 | 3 | 4 | 5 | 6 |
| As a result of this course: | | | | | | |
| 5- I have reach a through approach of physical signs | 1 | 2 | 3 | 4 | 5 | 6 |
| 6- I can incorporate a physical and clinical findings into a differential diagnosis. | 1 | 2 | 3 | 4 | 5 | 6 |

B-Please indicate how help each of the followings in your learning

| | Did not attend | Not at all helpful | Minimally helpful | Reasonably helpful | Very helpful | Maximally helpful |
|---------------------|----------------|--------------------|-------------------|--------------------|--------------|-------------------|
| 1-Lectures | 0 | 1 | 2 | 3 | 4 | 5 |
| 2CLINICAL SESSIONS | 0 | 1 | 2 | 3 | 4 | 5 |
| 3-Group discussion. | 0 | 1 | 2 | 3 | 4 | 5 |

Analysis of results : method to analyze data collected using a **Likert scale**

1. Assign numerical values to each response option on the scale. For example, you could assign 1 to "strongly disagree," 2 to "disagree," 3 to "neutral," 4 to "agree," and 5 to "strongly agree."
2. Calculate the mean score for each statement by summing the numerical values for all responses to that statement and dividing by the number of respondents. This will give you an average score for each statement.
3. Interpret the results by considering the mean scores for each statement. Statements with higher mean scores are more positively rated by respondents, while statements with lower mean scores are less positively rated.

Summary :

This approach has allowed the clerkship to be flexible enough to accommodate varying student abilities and interests while also assuring coverage of core concepts and materials.

Conclusion:

The above curriculum design provides a comprehensive framework for teaching and assessing internal medicine in an undergraduate medical college. The course includes a balanced mix of theoretical and practical sessions, and the teaching methods and assessment methods. The ILOs, general objectives, and specific objectives are well-defined, which will enable students to achieve a thorough understanding of principles of practice of medicine and clinical training.

Requirements to completely achieve instructional objective for internal medicine in our college:

1. Internal medicine is a wide specialty deals with all medical branches and should receive much more care and attention from college and university authorities
2. The college should encourage a weekly department conference activities .
Students should attend all these interdepartmental conferences

Assessment Methods:

The course will use the following assessment methods:

1. Summative :
 - Written exams (short essay questions ,long essay , SBA, MCQ, Cross match) :
to assess the students' knowledge and understanding of the theory.
 - Practical exams (OSCE) : to assess the students' ability to inquire history
perform a thorough general and systemic examination.

- Quizzes which are graded
2. Formative assessment :
- Quizzes in class after most topics- which are not graded
 - Group discussion in class

Grading and Evaluation:

The grading system for the course will be as follows:

- Commutative :
- Written midyear exam = 20%
 - Practical exam = 20 %
 - written final exam = 60 %
 - Total 100 %
 - Pass mark = 50%

- Formative (no mark given – just take feedback)
- Group discussion.
 - Some of the quizzes without mark

Textbooks approved: Davidson principles and practice of medicine, Macleods clinical examination.

Lecturers :

- 1- Ass. Prof Dr Haider Shaheed Mohammed C.A.B.M.S-head of department
- 2- Ass. Prof Dr. Fadhel Abbas Hamad al saeedy, C.A.B.M.S
- 3- Assist prof, Dr, Dheyaa Khalaf, C.A.B.M.S.
- 4- Assist professor, Dr. Abbas Fadhel C.I.B.M.S.
- 5- Assist prof, Dr Amer Shareef C.I.B.M.S
- 6- Lecturer- DR. HAZEM Ali -C.I.B.M.S
- 7- Professor Dr. Basem attheyeb C.I.B.M.S