# Course Specifications

| | |
|---|---|
| **Course Title:** | Internal Medicine |
| **Course Code:** | 1000501 |
| **Program:** | **MBBCH** |
| **Department:** | **Internal medicine** |
| **College:** | **Medicine** |
| **Institution:** | **King Faisal University** |

## Table of Contents

## A. Course Identification

| | |
|---|---|
| **Credit hours:** | **4** |
| **2. Course type** | |
| **a.** | University [√] College [ ] Department [ ] Others [ ] |
| **b.** | Required [√] Elective [ ] |
| **3. Level/year at which this course is offered:** | **Year 5** |
| **4. Pre-requisites for this course** (if any)**:** | Block 4.1 (1000401) |
| **5. Co-requisites for this course** (if any)**:** | |

**6. Mode of Instruction** (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|---|---|---|---|
| 1 | **Traditional classroom** | 120 | 100 |
| 2 | **Blended** | | |
| 3 | **E-learning** | | |
| 4 | **Correspondence** | | |
| 5 | **Other** | | |

**7. Actual Learning Hours** (based on academic semester)

| No | Activity | Learning Hours |
|---|---|---|
| **Contact Hours** | | |
| 1 | **Lecture** | |
| 2 | **Laboratory/Studio** | |
| 3 | **Tutorial** | |
| 4 | **Others** (specify) (CBT, Seminars, Morning meetings, Logbook activity) | 120 |
| | **Total** | 120 |
| **Other Learning Hours*** | | |
| 1 | **Study** | 30 |
| 2 | **Assignments** | 10 |
| 3 | **Library** | 10 |
| 4 | **Projects/Research Essays/Theses** | 10 |
| 5 | **Others** (specify) | |
| | **Total** | 60 |

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

## B. Course Objectives and Learning Outcomes

1. **Course Description**

The course is a clinical rotation in Internal Medicine, where students will observe patients with Internal Medicine disorders (Cardiopulmonary, GIT, Endocrine, Nephrology, ID, hematology and rheumatology), evaluate the patients and formulate differential diagnosis and management plans for the same.

**2. Course Main Objective**

To enable students to acquire basic working knowledge of Internal Medicine to secure foundation in the subject on which they can subsequently build, whether for general practice, or further specialization, including diagnosis and management of Internal Medicine patients in primary care settings, identification of possible complications and learn their prevention and management

**3. Course Learning Outcomes**

| | CLOs | Aligned PLOs |
|---|---|---|
| 1 | **Knowledge:** | |
| 1.1 | Recognize the anatomical and physiologic mechanisms that explain the key findings of common Internal Medicine Disorders (e.g. Endocrine, Cardiac,,,,,,,,,, Etc.) | K1 |
| 1.2 | Discuss clinical manifestations of common Internal Medicine diseases and corresponding differential diagnosis and complications, correlating the same with the basic pathological features. | K2 |
| 1.3 | Explain the management of common Internal Medicine disorders including common diagnostic tools and interpretation of the same and pharmacological and non- pharmacological therapies, considering the different medical, social, psychological and cultural backgrounds | K3 |
| **2** | **Skills :** | |
| 2.1 | Apply clinical reasoning, critical and analytical skills in discussing the patient's complaints related to Internal Medicine diseases, presenting the different possible solutions and therapies while considering the different medical, social, psychological and cultural backgrounds keeping in mind basic sciences knowledge. | S1 |
| 2.2 | Integrate and organize the historical, physical, and investigative findings into a meaningful differential diagnosis formulation in the context of Internal Medicine disorders. | S1,S2,S6,S7 |
| 2.3 | Design effective therapeutic and ongoing management of an individual patient in the context of Internal Medicine diseases | S3,S6,S8 |
| **3** | **Competence:** | |
| 3.1 | Perform basic medical skills and pharmacological therapies, including investigative procedures in both routine cases and in emergency settings related to Internal Medicine. | C2 |
| 3.2 | Develop and implement a suitable plan of care for different Internal Medicine problems in a shared view with patients, relatives and peers, including breaking bad news. | C3 |
| 3.3 | Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services and collaboration within an integrative health care environment. | C4,C6 |

## C. Course Content

| No | List of Topics | Contact Hours |
|---|---|---|
| 1 | Review of basic sciences in all fields of Internal Medicine and clinical Examination. | 15 |
| 2 | Endocrinal disorders: including but not limited to Diabetes, Adrenal and pituitary disorders. | 15 |
| 3 | Infectious diseases: including but not limited to HIV and FUO | 15 |
| 4 | Hematological Diseases | 15 |
| 5 | Cardiopulmonary disorders including but not limited to Chest pain, palpitation and cough. | 15 |
| 6 | Liver diseases | 10 |
| 7 | GIT and pancreatic disorders. | 8 |
| 8 | Kidney diseases | 10 |
| 9 | Rheumatologically disorders | 7 |
| 10 | ECG | 10 |
| **Total** | | 120 |

## D. Teaching and Assessment

### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|---|---|---|---|
| **1.0** | **Knowledge** | | |
| 1.1 | Recognize the anatomical and physiologic mechanisms that explain the key findings of common Internal Medicine Disorders (e.g. Endocrine, Cardiac,,,,,,,,,, Etc.) | **1. Bed-side teaching and In-patient case discussions.**<br>**2. Seminar** | 1-Final term PS will test direct knowledge acquisition related to the objective<br>2. Clinical exam (OSCE)<br>3. Student case presentations (formative)<br>4. Interactive seminar (Formative) |
| 1.2 | Discuss clinical manifestations of common Internal Medicine diseases and corresponding differential diagnosis and complications, correlating the same with the basic pathological features. | **1. Bed-side teaching and In-patient case discussions.**<br>**2. Seminar** | 1-Final term PS will test direct knowledge acquisition related to the objective<br>2. Clinical exam (OSCE)<br>3. Student case presentations (formative)<br>4. Interactive seminar (Formative) |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|---|---|---|---|
| 1.3 | Explain the management of common Internal Medicine disorders including common diagnostic tools and interpretation of the same and pharmacological and non-pharmacological therapies, considering the different medical, social, psychological and cultural backgrounds- pharmacological therapies, considering the different medical, social, psychological and cultural backgrounds | **1. Bed-side teaching and In-patient case discussions.**<br>**2. Seminar** | 1-Final term PS will test direct knowledge acquisition related to the objective<br>2. Clinical exam (OSCE)<br>3. Student case presentations (formative)<br>4. Interactive seminar (Formative) |
| **2.0** | **Skills** | | |
| 2.1 | Apply clinical reasoning, critical and analytical skills in discussing the patient's complaints related to Internal Medicine diseases, presenting the different possible solutions and therapies while considering the different medical, social, psychological and cultural backgrounds keeping in mind basic sciences knowledge. | **1. Bed-side teaching and In-patient case discussions.**<br>**2. Seminar** | 1-Final term PS will test direct knowledge acquisition related to the objective<br>2. Clinical exam (OSCE)<br>3. Student case presentations (formative)<br>4. Interactive seminar (Formative) |
| 2.2 | Integrate and organize the historical, physical, and investigative findings into a meaningful differential diagnosis formulation in the context of Internal Medicine disorders. | **1. Bed-side teaching and In-patient case discussions.**<br>**2. Seminar** | 1-Final term PS will test direct knowledge acquisition related to the objective<br>2. Clinical exam (OSCE)<br>3. Student case presentations (formative)<br>4. Interactive seminar (Formative) |
| 2.3 | Design effective therapeutic and ongoing management of an individual patient in the context of Internal Medicine diseases. | **1. Bed-side teaching and In-patient case discussions.**<br>**2. Seminar** | 1-Final term PS will test direct knowledge acquisition related to the objective<br>2. Clinical exam (OSCE)<br>3. Student case presentations (formative)<br>4. Interactive seminar (Formative). |
| **3.0** | **Competence** | | |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|---|---|---|---|
| 3.1 | Perform basic medical skills and pharmacological therapies, including investigative procedures in both routine cases and in emergency settings related to Internal Medicine. | **1. Bed-side teaching and In-patient case discussions.** | 1-Final term PS will test direct knowledge acquisition related to the objective<br>2. Clinical exam (OSCE)<br>3. Student case presentations (formative)<br>4. Interactive seminar (Formative) |
| 3.2 | Develop and implement a suitable plan of care for different Internal Medicine problems in a shared view with patients, relatives and peers, including breaking bad news. | **1. Bed-side teaching and In-patient case discussions.** | 1-Final term PS will test direct knowledge acquisition related to the objective<br>2. Clinical exam (OSCE)<br>3. Student case presentations (formative)<br>4. Interactive seminar (Formative) |
| 3.3 | Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services and collaboration within an integrative health care environment. | **1. Bed-side teaching and In-patient case discussions.** | 1. Student case presentations (formative)<br>2.Clinical exam (OSCE) |

## 2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|---|---|---|
| **1** | Monitoring of attendance | Every day (4 days a week) | 5% |
| **2** | Seminar | 3 days a week | 10% |
| **3** | Log book Including mini-CEX | Last day of clinical rotation | 15% (including 12% for mini-CEX) |
| **4** | OSCE | After 4 weeks | 30 |
| **5** | Problem solving written examination | After 4 weeks | 40 |

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support

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| **Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :**<br><br>Students in need of appointments for any academic counseling can consult the faculty during the publicized office hours after giving reasonable notice prior to the appointment |

## F. Learning Resources and Facilities

### 1.Learning Resources

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|---|---|
| **Required Textbooks** | 1.Mac Leod's clinical examination 13th edition<br>2.Kumar and Clarks's clinical medicine 9th edition |
| **Essential References Materials** | Harrison's Principles Of Internal Medicine, 19 E (2015) |
| **Electronic Materials** | www.elsevierhealth.co.uk/macleod<br><br>Uptodate.com **(NA for internal Medicine)** |
| **Other Learning Materials** | **(NA for internal Medicine)** |

### 2. Facilities Required

| Item | Resources |
|---|---|
| **Accommodation**<br>(Classrooms, laboratories, demonstration rooms/labs, etc.) | Lecture halls for seminars and case discussions |
| **Technology Resources**<br>(AV, data show, Smart Board, software, etc.) | Basic computers with power point |
| **Other Resources**<br>(Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | **(NA for internal Medicine)** |

## G. Course Quality Evaluation

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|---|---|---|
| Course objectives, content and learning outcomes | Curriculum committee | Course review<br>Course report |
| Effectiveness of teaching | Faculty and students | Classroom observation (QMS annex O and P)<br>Course evaluation survey (QMS annex B) |

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|---|---|---|
| | | |
| Achievement of course learning outcomes | Course faculty | Moderation (QMS annex G and annex H) |
| Assessment | Course faculty | Verification |
| Learning resources and facilities | Students<br>Faculty | Course evaluation Survey<br>Course report |
| Student academic counseling and support | Students | Course evaluation Survey |
| Course quality management | Program coordinator | Course report review |

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
**Assessment Methods** (Direct, Indirect)

## H. Specification Approval Data

| | |
|---|---|
| **Council / Committee** | College Council |
| **Reference No.** | 2 |
| **Date** | September 24, 2019 |