MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

| **Module Information**  **معلومات المادة الدراسية** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Module Title** | Human diseases | | | | **Module Delivery** | | |
| **Module Type** | Core | | | | * **☒ Theory** * **☐ Lecture** * **☒ Lab** * **☐ Tutorial** * **☐ Practical** * **☐ Seminar** | | |
| **Module Code** | BID413 | | | |
| **ECTS Credits** | 5.00 | | | |
| **SWL (hr/sem)** | 125 | | | |
| **Module Level** | | UGx11 4 | **Semester of Delivery** | | | | 7 |
| **Administering Department** | | BID | **College** | BMIC | | | |
| **Module Leader** | Shaimaa Khalid Moufak | | **e-mail** | Shaimaa.khalid-bic@uoitc.edu.iq | | | |
| **Module Leader’s Acad. Title** | | Assistant Lecturer | **Module Leader’s Qualification** | | | | MSc |
| **Module Tutor** | Name (if available) | | **e-mail** | E-mail | | | |
| **Peer Reviewer Name** | | omar A.M | **e-mail** | omara.m@uoitc.edu.iq | | | |
| **Scientific Committee Approval Date** | | 18/06/2023 | **Version Number** | | | 1.0 | |

| **Relation with other Modules**  **العلاقة مع المواد الدراسية الأخرى** | | | |
| --- | --- | --- | --- |
| **Prerequisite module** | molecular biology and genomics / BID322 | **Semester** | 6 |
| **Co-requisites module** |  | **Semester** |  |

| **Module Aims, Learning Outcomes and Indicative Contents**  **أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية** | |
| --- | --- |
| **Module Objectives**  **أهداف المادة الدراسية** | 1. To cover a range of human diseases, both inherited and environmentally linked. 2. To explain the most common types of human diseases. |
| **Module Learning Outcomes**  **مخرجات التعلم للمادة الدراسية** | At the end of this module students should be able to:  1. Explain how evidence is gathered through epidemiology to understand causes of human disease at the population level.  2. Summarize key features and differences of global patterns of disease with a focus on social aspects of health and health inequalities.  3. Differentiate between bacteria, viruses and parasites as causes of infectious disease and describe different modes of transmission of infectious agents.  4. Explain the basic components of how the immune system fights invading pathogens and what antibiotics.  5. Explain what genes are and the role they can play in human disease.  6. Outline the main risk factors for cardiovascular disease and cancer.  7. Explain aspects of the role of nutrition in health and disease.  8. Describe, using named examples, how environmental exposures can damage health. |
| **Indicative Contents**  **المحتويات الإرشادية** | The module includes four main requirements that the student must complete in order to successfully pass the course.  1. Readings: Students must weekly read each lecture before presenting it in the classroom in order to be able to interact and discuss. The content of the course includes four main parts, and each part includes topics that are illustrated in weekly syllabus, which includes:  Part 1 – Human diseases  Part 2 – Blood system disorders (Hematopathology)  Part 3 – Heart disease  Part 4 – Chronic respiratory disease  Part 5 – Cancer  Part 6 - Obesity …… etc.  2. Discussion: We will use discussion as the main form of interaction in the class. Students’ responses to the weekly readings.  3. Quiz: every lecture we will do simple quiz (oral or writing) to enhance the students for more reading and follow up them.  4. Oral Presentations: this very important to allow the students to learn how to do the slide and how to discuss many topics (theoretical or practical). |

| **Learning and Teaching Strategies**  **استراتيجيات التعلم والتعليم** | |
| --- | --- |
| **Strategies** | * Lectures * Discussion * Brainstorming * Practical presentations * (Lab works) Practical |

| **Student Workload (SWL)**  **الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا** | | | |
| --- | --- | --- | --- |
| **Structured SWL (h/sem)**  **الحمل الدراسي المنتظم للطالب خلال الفصل** | 64 | **Structured SWL (h/w)**  **الحمل الدراسي المنتظم للطالب أسبوعيا** | 4 |
| **Unstructured SWL (h/sem)**  **الحمل الدراسي غير المنتظم للطالب خلال الفصل** | 61 | **Unstructured SWL (h/w)**  **الحمل الدراسي غير المنتظم للطالب أسبوعيا** | 4 |
| **Total SWL (h/sem)**  **الحمل الدراسي الكلي للطالب خلال الفصل** | **125** | | |

| **Module Evaluation**  **تقييم المادة الدراسية** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **As** | | **Time/Number** | **Weight (Marks)** | **Week Due** | **Relevant Learning Outcome** |
| **Formative assessment** | **Quizzes** | 2 | 10% (10) | 5 and 10 | LO #1, #2 and 5 |
| **Assignments** | 2 | 10% (10) | 2 and 12 | LO #3, #4 and #6, #7 |
| **Projects / Lab.** | 1 | 10% (10) | Continuous | All |
| **Report** | 1 | 10% (10) | 13 | LO #5, #8 and 9 |
| **Summative assessment** | **Midterm Exam** | 2hr | 10% (10) | 7 | LO #1 - #7 |
| **Final Exam** | 3hr | 50% (50) | 16 | All |
| **Total assessment** | | | 100% (100 Marks) |  |  |

| **Delivery Plan (Weekly Syllabus)**  **المنهاج الاسبوعي النظري** | |
| --- | --- |
| **Week** | **Material Covered** |
| **Week 1** | Human diseases |
| **Week 2** | Blood system disorders (Hematopathology) |
| **Week 3** | Heart disease |
| **Week 4** | Chronic respiratory disease |
| **Week 5** | Cancer and neoplasia |
| **Week 6** | Obesity |
| **Week 7** | Mid-term Exam |
| **Week 8** | Genetic disorders |
| **Week 9** | Alzheimer’s disease |
| **Week 10** | Diabetes |
| **Week 11** | Infectious disease |
| **Week 12** | Chronic kidney disease |
| **Week 13** | Immune system disorders |
| **Week 14** | Mental illnesses |
| **Week 15** | Inflammation |

| **Delivery Plan (Weekly Lab. Syllabus)**  **المنهاج الاسبوعي للمختبر** | |
| --- | --- |
| **Week** | **Material Covered** |
| **Week 1** | Complete blood counts (CBC) |
| **Week 2** | Blood film |
| **Week 3** | Cardiac enzymes |
| **Week 4** | Cardiac enzymes (practical) |
| **Week 5** | Explain of Lipid profile |
| **Week 6** | Explain of Lipid profile (practical) |
| **Week 7** | Mid practical exam |
| **Week 8** | Laboratory tests for diabetes |
| **Week 9** | Laboratory tests for diabetes (practical) |
| **Week 10** | What are Immunological tests? |
| **Week 11** | Immunological tests (practical) |
| **Week 12** | What are Kidney function tests? |
| **Week 13** | Kidney function tests (practical) |
| **Week 14** | MRI, CT scan and x- ray |
| **Week 15** | Preparing for final practical exam and review |

| **Learning and Teaching Resources**  **مصادر التعلم والتدريس** | | |
| --- | --- | --- |
|  | **Text** | **Available in the Library?** |
| **Required Texts** | 1. Human diseases, Elaine Tompary, 2015. 2. Diseases of the human body, Carol D. Tamparo, sixth edition. 3. Human Diseases,Marianne Neighbors,Ruth Tannehill-Jones, fifth edition, 2018. 4. Dacie and Lewis Practical Haematology, Barbara J Bain, eleventh edition, 2011. | No |
| **Required Texts** | Human diseases, Sixth Edition,  Marianne Neighbors and Ruth Tannehill-Jones, 2022 | No |
| **Recommended Texts** | CONCEPT OF GENETICS, Twelfth Edition, William S. Klug , 2018 | No |
| **Websites** | <https://www.coursera.org/search?query=human%20diseases&irclickid=1gzS2y0XxxyPWYew1s1Z:V0SUkF0Ms1fiXebSs0&irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=2985301&utm_content=b2c&index=prod_all_launched_products_term_optimization> | |

| **Grading Scheme**  **مخطط الدرجات** | | | | |
| --- | --- | --- | --- | --- |
| **Group** | **Grade** | **التقدير** | **Marks %** | **Definition** |
| **Success Group**  **(50 - 100)** | **A -** Excellent | **امتياز** | 90 - 100 | Outstanding Performance |
| **B -** Very Good | **جيد جدا** | 80 - 89 | Above average with some errors |
| **C -** Good | **جيد** | 70 - 79 | Sound work with notable errors |
| **D -** Satisfactory | **متوسط** | 60 - 69 | Fair but with major shortcomings |
| **E -** Sufficient | **مقبول** | 50 - 59 | Work meets minimum criteria |
| **Fail Group**  **(0 – 49)** | **FX –** Fail | **راسب (قيد المعالجة)** | (45-49) | More work required but credit awarded |
| **F –** Fail | **راسب** | (0-44) | Considerable amount of work required |
|  |  |  |  |  |
| **Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above. | | | | |