**Course Description Form**

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| 1. Course Name: Clinical Laboratory Sciences (CLS) | | | | | | | | |
| **Consist of three sections:**   1. **Pathology: department of pathology and forensic medicine** 2. **Microbiology: department of microbiology** 3. **GBD: department of pathology and forensic medicine** | | | | | | | | |
| 1. Course Code: 1203 | | | | | | | | |
| **1203** | | | | | | | | |
| 1. Semester / Year: first semester | | | | | | | | |
| **First semester** | | | | | | | | |
| 1. Description Preparation Date: | | | | | | | | |
| 24-9-2024 | | | | | | | | |
| 1. Available Attendance Forms: Theoretical lectures and practical sessions | | | | | | | | |
| 1. **Large group teaching** 2. **Team base learning** 3. **Practical sessions (labs)** | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | | |
| * **Total numbers of hours= 86** * **Theory hours= 71** * **Practical hours= 15** * **Number of units = 5** | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| 1. Name: Assistant professor: Dr. Sazan Abdulwahab Mirza (Pathology)   E-mail: [SazanA.Alatrooshi@comed.uobaghdad.edu.iq](mailto:SazanA.Alatrooshi@comed.uobaghdad.edu.iq)   1. Assistant professor: Dr. Maryam Kreem Ali (Microbiology)   E-mail: [Maryam@comed.uobaghdad.edu.iq](mailto:Maryam@comed.uobaghdad.edu.iq)   1. Assistant professor: Dr. Bassam Mousa Sadik (GBD)   E-mail: [bm.al-musawi@comed.uobaghdad.iq](mailto:bm.al-musawi@comed.uobaghdad.iq) | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | * **Graduate safe and qualified doctors who are able to present primary health**   **care and emergency cases management**   * **Analyze pathological conditions and how to reach a safe laboratory diagnosis** * **Concentrate on technical aspects of pathological diagnosis** * **Knowledge of importance and value of genetic diseases and congenital anomalies** * **Classification of genetic diseases including those with congenital anomalies.** * **Clinical application of basic genetic knowledge** * **Genetic analysis of basis of diseases, differentiating genetic causes from**   **Environmental cause regarding congenital anomalies**   * **Describing basic genetic test and their applications**   **Cognitive objectives:**  **Reliving and detecting in an analytic way the clinical and pathological problems**  **Analysis the pathological causes of the problems**  **Analysis the pathogenesis of the disease**  **The relationship between the pathological condition and clinical symptoms**  **Reaching specific diagnosis of the diseases**  **Skill related objectives**  **Diagnosis of diseases based on histopathological examinations**  **Diagnosis of diseases based on cytological examinations**  **Diagnosis of disease based on microbiological examinations**  **Different culture media for various microorganisms**  **Emotional and values related objectives:**  **Building and enforcement of professional and ethical behavior**  **Concentrating on professional ethics**  **General skills (other skills related to employment and self-development)**  **Practical explanation for types of laboratory specimen: tissue and blood**  **Practical explanation for how to prepare lab specimen: tissue and blood and**  **how to examine them** | | | | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | **Large group teaching (lectures)**  **Team base learning**  **Practical sessions (labs)** | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | | **Required Learning Outcomes** | **Unit or subject name** | | **Learning method** | **Evaluation method** |
| 1-14 | **CLS**  **Total hours 86**  **T theory 71 h**  **T practical 15 h**  **Pathology:**  Theory: 34 h  11 TBL+1 LG  Practical 3h  1 lab (TBL)  **T patho 37 h**  **Microbiology**  Theory 22 h  19 LG+1 TBL  Practical 12 h  4 lab (TBL)  **T micro 34 h**  **GBD**  Theory 15  15 LG  No practical | | | As  mentioned  above in the  objectives | Clinical  Laboratory  Sciences (CLS)  Consist :  1.Pathology: department of pathology and  forensic  medicine  2.Microbiology: department of microbiology  3.GBD:  department of pathology and  forensic  medicine | | 1. Large   group  teaching  (lectures)   1. Team   base  learning   1. Practical sessions   (labs) | 1.Formative  Exams  2. Quizzes  3. mid module  Exam   1. End   Module exam  Thery and  practical |
| 1. Course Evaluation | | | | | | | | |
| Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc  **Daily exams and preparation= 10 marks**  **Mid module exam = 20 marks**  **End module (summative exam) = theory 50 marks + practical 70 marks =70 marks** | | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | | **Pathology**  **Robbins basic pathology, 2018 – main textbook**  **Robbins pathologic basis of disease – assisting reference**  **Microbiology**  **Jawetz Melnick & Adelbergs Medical Microbiology; 2010, 25th edition.**  **Richard M. Hyde’s Books. Immunology; 1992, 78th edition.**  **GBD**  **3-Emery’s elements of medical genetics**  **By Peter D. Turnpenny & Sian Ellard**  **15th edition; 2018** | | |
| Main references (sources) | | | | | | **1. Robbins pathologic basis of disease – assisting reference**  ***2. Jawetz*, Melnick, & Adelberg's *. Medical Microbiology*. Twenty-Sixth Edition. LANGE medical book**  **3-Robbins & Cotran Pathologic basis of disease – Chapter 5 (Genetic Disorders) by Vinay Kumar & Abul K. Abbas; 9th edition; 2015** | | |
| Recommended books and references (scientific journals, reports...) | | | | | | **WHO, CDC**  **Kaplan’s USMLE step 1: Biochemistry and**  **medical genetics / Lecture notes –**  **By Barbara Hansen & Lynn B. Jorde - 2009** | | |
| Electronic References, Websites | | | | | | Internet search (mainly via google search engine | | |