**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**
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| 1. Course Code: 1203
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| **1203** |
| 1. Semester / Year: first semester
 |
| **First semester** |
| 1. Description Preparation Date:
 |
| 24-9-2024 |
| 1. Available Attendance Forms: Theoretical lectures and practical sessions
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| 1. **Large group teaching**
2. **Team base learning**
3. **Practical sessions (labs)**
 |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
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| * **Total numbers of hours= 86**
* **Theory hours= 71**
* **Practical hours= 15**
* **Number of units = 5**
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| 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 1. Assistant professor: Dr. Maryam Kreem Ali (Microbiology)

E-mail: Maryam@comed.uobaghdad.edu.iq1. Assistant professor: Dr. Bassam Mousa Sadik (GBD)

E-mail: bm.al-musawi@comed.uobaghdad.iq  |
| 1. Course Objectives
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| **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
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| **Strategy** | **Large group teaching (lectures)** **Team base learning****Practical sessions (labs)** |
| 1. Course Structure
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| **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 h11 TBL+1 LGPractical 3h1 lab (TBL)**T patho 37 h****Microbiology**Theory 22 h19 LG+1 TBLPractical 12 h4 lab (TBL)**T micro 34 h****GBD** Theory 1515 LGNo practical | As mentionedabove in the objectives | Clinical Laboratory Sciences (CLS)Consist :1.Pathology: department of pathology and forensic medicine2.Microbiology: department of microbiology3.GBD: department of pathology and forensic medicine | 1. Large

group teaching (lectures)1. Team

base learning1. Practical sessions

(labs) | 1.FormativeExams2. Quizzes3. mid module Exam1. End

Module examThery andpractical |
| 1. Course Evaluation
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| 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
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| 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 |