**Course Description Form**

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| 1. Course Name: Pharmacogenetic | | | | | | | | |
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| 1. Course Code: / | | | | | | | | |
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| 1. Semester / Year: 2nd. Semester/2024 | | | | | | | | |
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| 1. Description Preparation Date: MSC/ spring | | | | | | | | |
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| 1. Available Attendance Forms: optional | | | | | | | | |
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| 1. Number of Credit Hours (Total) / Number of Units (Total) 30 hours / weekly /2 units | | | | | | | | |
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| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Prof. Dr. Basima Qasim Hasan ALsaadi / Dr. wasan Abdul Razaq  Email: [basima@ige.uobaghdad](mailto:basima@ige.uobaghdad).edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **Course Objectives** | | | | | | **Introducing students to the various aspects of Pharmacogenetic and its relation to their specialist**  **Which deals with the effect of genetic diversity with response to drug in patients through gene expression or single nucleotide polymorphism .....**  **With drug efficacy and toxicity .....** | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **Strategy** | | 1. Developing and developing relative methods to achieve maximum effectiveness of drug treatment and Knowing the patient’s genetic makeup to ensure maximum effectiveness with the least amount of side effects 2. Comprehensive application of genetics in the field of pharmacogenomics and It is considered a promising field of personalized medicine 3. - Developing rational means to improve drug treatment 4. The possibility of prescribing alternative treatments for patients who suffer from a lack of therapeutic response | | | | | | |
| 1. Course Structure | | | | | | | | |
| **Week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | | | **Learning method** | **Evaluation method** |
| 1st.  week  2nd  week  3rd  week  4th  week  5th. Week  6th week  7th.  Week  8th /  Week  9th. /week  10th. /week  11th. /  Week  12th. /week  13th./  Week  14th/  Week  15th. / week | 2hrs.    2 hrs.  2hrs.  2hrs.  2hrs.  2hrs  2hrs .  =  =  =  =  =  =  =  = | | Pharmacogenetic    Pharmacogenetic    Pharmacogenetic    Pharmacogenetics  Pharmacogenomic  Pharmacogenetic  Pharmacogenetics  =  =  =  =  =  =  =  = | Introduction ,definition  And history of pharmacogenetics and  Genetic variation  Explain types of  drug receptors and  roles in pharmacokinetic  and pharmacodynamics  The role of Pharmacogenetic in the discovery and development of drugs and its applications    Role of enzymes and  Metabolism of drug with  pharmacogenetics  Role of pharmacogenomic  In drug development  And discovery  Overview  And challenging  Spot light on the  most important genes  related  To pharmacogenetics  Explain the importance of  Persolinized medicine  Environmental scan of pharmacogenomics  Biomarkers in pharmacogenetics  /genetic variation and drug response  Nature of  Pharmacogenetic tests  Economic impact of Pharmacogenetic  Pharmacogenetic and  Health service  Application of pharmacogenomics  How does gene vary  with Pharmacogenetic  tests  2nd. Med term exam | | | Power point ,  theoretical lecture with presentation slides    Presentation slide  Data show  Theoretical lecture with  Data show  Data show  Theoretical lecture  And power point  Presentation  Display data  Data show  presentation   * =   Video with data show =  Data show  = =  = =  Slide data show  = =  2nd. Med term exam | Discussion and daily quizzes  Discussion  Mid – term  Exam  Discussion briefly with student  Discussion panel reports by the students  Oral discussion  Discussion  Oral discussion  Oral discussion  Seminar with discussion  = =  = =  Seminal with discussion  = =  Exam . |
| 1. Course Evaluation | | | | | | | | |
| 15 scor1st. Mid term exam , 15 scor2nd. Midterm exam marks , 60 scor for final exam , 5 scor for reports , 5 scor for presentation and attendance | | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | Pharmacogenetics , e chapter 6  Larisa,H. Cavallari ;Y.W.Francis,L. | | | |
| Main references (sources) | | | | | Pharmacogenetic: e chaptor7  Konrad,J. ;Karezewski,R. *--------et, al*  Plos, compwatational Biology,2012,86 (12) | | | |
| Recommended books and references (scientific journals, reports...) | | | | | PDF from internet | | | |
| Electronic References, Websites | | | | |  | | | |