**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 RazaqEmail: basima@ige.uobaghdad.edu.iq |
| 1. Course Objectives
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| **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
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| **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
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| 1. Course Structure
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| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1st.week2ndweek3rdweek4th week5th. Week 6th week7th. Week8th /Week9th. /week10th. /week11th. /Week12th. /week13th./Week14th/Week15th. / week  | 2hrs. 2 hrs.2hrs.2hrs. 2hrs.2hrs  2hrs . = = = = = = = = | Pharmacogenetic   Pharmacogenetic   Pharmacogenetic Pharmacogenetics  Pharmacogenomic Pharmacogenetic Pharmacogenetics = = = = = = = = | Introduction ,definition And history of pharmacogenetics andGenetic variation Explain types of drug receptors and roles in pharmacokineticand pharmacodynamicsThe 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 withData 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 quizzesDiscussionMid – term Exam Discussion briefly with studentDiscussion panel reports by the students Oral discussion Discussion  Oral discussion Oral discussion Seminar with discussion = == =Seminal with discussion = = Exam . |
| 1. Course Evaluation
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|  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
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| Required textbooks (curricular books, if any) | Pharmacogenetics , e chapter 6Larisa,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 |  |