**Course Description Form**

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| 1. Course Name: Priciple of genetic diseases
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| 1. Course Code: /
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| 1. Semester / Year: Higher Diploma / 2nd. Semester/ spring
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| 1. Description Preparation Date:16/3/2024
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| 1. Available Attendance Forms: optional
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| 1. Number of Credit Hours (Total) / Number of Units (Total)30hrs. / 15 weeks /2hrs /week / 2 unite
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| 1. Course administrator's name (mention all, if more than one name)
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| Name: Prof. Dr. Basima Qasim Hasan ALsaadi , Prof. Dr. Rafid Abdul WahedEmail: basima@ige.uobaghdad.edu.iq |
| 1. Course Objectives
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| Course Objectives | 1-Clarify the relation ship between the diseases and molecular genetics 2- Classification different types of genetic diseases.....3-Study the pathophysiology and epidemiology of genetic diseases.4- Idenifiy the risk factors that associated with genetic diseases....5-study the method of distribustion of genetic diseases between population ..... |
| 1. Teaching and Learning Strategies
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| **Strategy** | Describe many of genetic diseases , and to identify the modes for eradication and and control the distribution of those diseases , and also find typical way to preventand and treatment of the genetic diseases in the future , and to clarify the different meBiotechnological method for identification bof the effected gene and disorders  |
| 1. Course Structure
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| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1st.week2nd. Week3rd. week4th. Week5th. Week6th. Week 7tyh. week8th. Week9th. Week10th. Week11th. Week12th Week13th. Week14th. Week15th.week | 2hrs/ Week= == == == == =2hrs. / week 2hrs. /Week= == == == == == == = | Basic of genetic diseasesBasic of genetic diseases= = == = = = = == = =Basic of genetic diseasesBasic of genetic diseasesBasic of genetic diseases= = == = == = == = == = == = = | Introduction and classification of genetic diseaseschromosomal disorderssingle gene disorders mitochondrial disorders Midterm exam Somatic mutation and CancerPolygenetic disorders Type of mutations and prevention of genetic DiseasesEpidemiology and risk factors of genetic diseasesImpact of genetic diseasesDiagnosis of genetic diseases by DNA technologyMid term examNewborn screeningPrenatal diagnosisManagement and therapy of genetic diseasesGene therapy/gene editingChallenges in delivering a genetics service | Powerpoint and data show power point , data show Data show PowerpointData showPowerpoint Power point= == == =2nd. Med term Exam= == == == = | Discussion panalOral exam QuizeMid term examSeminar Oral exam , seminar Report and quizeOral exam = = Queze2nd.. Med term exam panal discussion oral exam oral exam totural and discussion  |
| 1. Course Evaluation
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| 15 scors written exam (1st. mid term exam )15 scors written exam ( 2nd. Mid term exam )10 scors daily preparation and reports and quizzes60 scors final exam  |
| 1. Learning and Teaching Resources
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| Required textbooks (curricular books, if any) | The genetic bases of human diseasesG. willis |
| Main references (sources) | Genetic diseases ReviewAnover view of publications featuring I Lumina |
| Recommended books and references (scientific journals, reports...) | The genetic bases of disease Maria Jackson , Leah marks *------et al*Essay in biochemistry 2018 , 62 :643 |
| Electronic References, Websites | Review articles and PDF  |