**Course Description Form**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Course Name: Priciple of genetic diseases | | | | | | | | |
|  | | | | | | | | |
| 1. Course Code: / | | | | | | | | |
|  | | | | | | | | |
| 1. Semester / Year: Higher Diploma / 2nd. Semester/ spring | | | | | | | | |
|  | | | | | | | | |
| 1. Description Preparation Date:16/3/2024 | | | | | | | | |
|  | | | | | | | | |
| 1. Available Attendance Forms: optional | | | | | | | | |
|  | | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total)30hrs. / 15 weeks /2hrs /week / 2 unite | | | | | | | | |
|  | | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | | |
| Name: Prof. Dr. Basima Qasim Hasan ALsaadi , Prof. Dr. Rafid Abdul Wahed  Email: basima@ige.uobaghdad.edu.iq | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| 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 | | | | | | | | |
| **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 me  Biotechnological method for identification bof the effected gene and disorders | | | | | | |
| 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  7tyh.  week  8th.  Week  9th.  Week  10th.  Week  11th.  Week  12th  Week  13th.  Week  14th.  Week  15th.  week | 2hrs/  Week  = =  = =  = =  = =  = =  2hrs. /  week  2hrs. /  Week  = =  = =  = =  = =  = =  = =  = = | | Basic of genetic diseases  Basic of genetic diseases  = = =  = = =  = = =  = = =  Basic of genetic diseases  Basic of genetic diseases  Basic of genetic diseases  = = =  = = =  = = =  = = =  = = =  = = = | Introduction and  classification of  genetic diseases  chromosomal disorders  single gene disorders  mitochondrial disorders  Midterm exam  Somatic mutation and  Cancer  Polygenetic disorders  Type of mutations and prevention of genetic  Diseases  Epidemiology and risk factors of genetic diseases  Impact of genetic diseases  Diagnosis of genetic diseases by DNA technology  Mid term exam  Newborn screening  Prenatal diagnosis  Management and therapy of genetic diseases  Gene therapy/gene editing  Challenges in delivering a genetics service | | | Powerpoint and  data show  power point ,  data show  Data show  Powerpoint  Data show  Powerpoint  Power point  = =  = =  = =  2nd. Med term  Exam  = =  = =  = =  = = | Discussion panal  Oral exam  Quize  Mid term exam  Seminar  Oral exam  , seminar  Report and quize  Oral exam  = =  Queze  2nd.. Med term  exam  panal discussion  oral exam  oral exam  totural and discussion |
| 1. Course Evaluation | | | | | | | | |
| 15 scors written exam (1st. mid term exam )  15 scors written exam ( 2nd. Mid term exam )  10 scors daily preparation and reports and quizzes  60 scors final exam | | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | The genetic bases of human diseases  G. willis | | | |
| Main references (sources) | | | | | Genetic diseases Review  Anover 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 | | | |