Fourth Stage/ Medical Mycology B467

Course Description Form

The course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available learning opportunities.

1.Educational Institution	College of Science/ University of Basrah
2. Department	Biology
3. Course name/Code 1. Programs included in it	Medical Mycology B467
4. Programs included in	Bachelor's, Master's, Doctorate
5. Attendance Form Available	Weekly
6. Semester/ Year	2021-2022
7. Total of study hours	30 hours + 60 practical hours
8. The course description was	prepared in 01/09/2020

9. Aims of the Course

Develop the student's ability to recognize the importance of water resources, their presence, and distribution, environmental and economic importance. As well as recognize the sustainability methods and water balance methods to manage the drainage basins and the factors affecting on it

10.Course outcomes and methods of teaching, learning and assessment
a- Knowledge and Understanding goals a.1. Recognize the types fungal infections to human and animals. a.2. Determination factors that increased the rate of fungal infections a.3. Study the pathogenicity of pathogenic fungi a.4. Determination the suitable treatment for each type of fungal infections a.5. study the prevalence of fungal infections a.6. To understand the mechanism of antifungals and specific targets effected in fungal cell .
b- Subjective- Specific Skills b.1. Determination the methods of isolation and identification of pathogenic fungi b.2. Evaluation the ability of diagnosis for fungal infections b.3. Identify and understanding the prevention of fungal infections
Learning Methods
1. Explanation and Discussion of the Lectures 2. It is boosting the student to conduct research and reports. 3. Urging the student to make PowerPoint presentations.
Evaluating Methods
1- Daily test and reports 2- Monthly exams 2- Final exams
C- Emotional and evolutional goals 1. The ability to recognize the importance of water resource in earth system. 2. Linking knowledge to environmental reality.
Learning Methods
1. Explanation and Discussion of the Lectures 2. Boosting the student to conduct research and reports. 3. The student PowerPoint presentations.

d- General qualification skills transferred (other skills related to employability and personality development)

1. Developing the mental abilities of the student
2. Developing the skills
3. Dealing with field and laboratory
4. Monitoring and evaluating water resources in the environment and the impact of climate change.

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1. Sequencing of course content

Week	Hours	Unit name	Course Outcomes	Learning method	Evaluation method
1 st week, 2ed, 3ed weeks	**2 h. lect. 2h. lab.**	Theoretical: Historical introduction of medical mycology, method to classification of mycoses Practical: Properties of pathogenic fungi, portal of entry of fungi to host body	**Knowledge and understanding of lectures**	**Understand the evolving state of knowledge learn to carry out practical work, in the field and in the laboratory**	**Daily and monthly tests**
4 th week, 5 th and 6th weeks	**2 h. lect. 2h. lab.**	Theoretical: Superficial mycosis without invading living tissues practical: isolation and identification of Superficial mycosis without invading living tissues	**Knowledge and understanding of lectures**	**Understand the evolving state of knowledge learn to carry out practical work, in the field and in the laboratory**	**Daily and monthly tests**
7 th week, and 8th weeks	**2 h. lect. 2h. lab.**	Theoretical: Superficial mycosis with invading living tissues Practical: Study fungi that cause Superficial mycosis with invading living tissues	**Knowledge and understanding of lectures**	**Understand the evolving state of knowledge learn to carry out practical work, in the field and in the laboratory**	**Daily and monthly tests**
9 th week, and 10th weeks	**2 h. lect. 2h. lab.**	Theoretical: Dermatophytes and keratinophilic fungi Practical: Isolation , identification, and diagnosis of dermatophytosis and dermatomycosis	**Knowledge and understanding of lectures**	**Understand the evolving state of knowledge learn to carry out practical work, in the field and in the laboratory**	**Daily and monthly tests**
11 th week, and 12th weeks	**2 h. lect. 2h. lab.**	Theoretical: Subcutaneous mycosis Practical: Explain laboratory methods that used to isolation of keratiophilic fungi, study fungi that caused subcutaneous mycosis	**Knowledge and understanding of lectures**	**Understand the evolving state of knowledge learn to carry out practical work, in the field and in the laboratory**	**Daily and monthly tests**

13 th week,	**2 h. lect. 2h. lab.**	second semester exam	**Knowledge and understanding of lectures**	**Understand the evolving state of knowledge learn to carry out practical work, in the field and in the laboratory**	**Daily and monthly tests**
14 th week, and 15th weeks	**2 h. lect. 2h. lab.**	Theoretical: Systemic mycosis, laboratory methods to diagnosis of fungal infectionms Practical : Study systemic mycosis in lab	**Knowledge and understanding of lectures**	**Understand the evolving state of knowledge learn to carry out practical work, in the field and in the laboratory**	**Daily and monthly tests**

11. Infrastructure	
1- Textbooks required for the course	
2 References	Brown GD, Netea MG, editors. Immunology of fungal infections. Dordrecht: Springer; 2007 May 10. Breitenbach M, Crameri R, Lehrer SB, editors. Fungal allergy and pathogenicity. Karger Medical and Scientific Publishers; 2002.
Recommended readings	Kavanagh K, editor. Medical mycology: cellular and molecular techniques. John Wiley & Sons; 2006 Aug 14.
Electronic website	

12. Course Development Plan
Course development based on recent versions of books and references..

The adoption of modern interactive teaching methods.
Activating alignment programs with international universities to learn about modern curricula and to exchange the experiences.