

## Course Description Form

1. Course Name:	
Medical genetics Cardiovascular system pathology Central nervous system pathology	
2. Course Code:	
3. Semester / Year:	
1 <sup>st</sup> and 2 <sup>nd</sup> semester 2023/2024	
4. Description Preparation Date:	
11/3/2024	
5. Available Attendance Forms: attendance	
6. Number of Credit Hours (Total) / Number of Units (Total):	
7. Theory(medical genetics):8 hours/year Cardiovascular system: 12 hours/year Central nervous system:4 hours Practical: 2 hour/week	
8. Course administrator's name (mention all, if more than one name)	
Name: dr. Saad Abdul-Baqi Email: saad.abdullah@uobasrah.edu.iq	
9. Course Objectives	
<b>Course Objectives</b>	<p><b>Medical genetics:</b></p> <ol style="list-style-type: none"> <li>1. Understand the basis of human genetics</li> <li>2. Study cytogenetic disorders</li> <li>3. Outlines the basis of structural chromosomal abnormalities</li> <li>4. Describe single-gene disorders with non classic inheritance</li> <li>5. Identify disorders with multifactorial inheritance and mitochondrial</li> <li>6. Understand genomic imprinting and unipaternal disomy</li> </ol> <p><b>Cardiovascular system pathology:</b></p> <ol style="list-style-type: none"> <li>1. <b>Outlines some vascular diseases</b></li> <li>2. <b>Understand the pathogenesis and pathological features of ischemic heart diseases</b></li> </ol>

	<p><b>3. Understand some congenital heart diseases</b></p> <p><b>Central nervous system:</b></p> <ol style="list-style-type: none"> <li><b>1. Outlines central nervous system infection</b></li> <li><b>2. Understand the definitions of cerebral edema and hydrocephalus</b></li> <li><b>3. List central nervous system neoplasms</b></li> </ol>
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**10. Teaching and Learning Strategies**

<b>Strategy</b>	<p>Explaining the scientific material through interactive theoretical lectures and dialogue answers with the participation of all students</p> <p>Distributing students into small groups in practical lessons and discussing common disease cases through presentations that include pictures of ophthalmic and microscopic examinations of diseases, in addition to glass slides and glass models.</p>
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**11. Course Structure**

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
5 <sup>th</sup> -7 <sup>th</sup>	8	<ol style="list-style-type: none"> <li>1. Understand the basis of human genetics</li> <li>2. Study cytogenetic disorders</li> <li>3. Outlines the basis of structural chromosomal abnormalities</li> <li>4. Describe single-gene disorders with non classic inheritance</li> <li>5. Identify disorders with multifactorial inheritance and mitochondrial</li> <li>6. Understand genomic imprinting and unipaternal disomy</li> </ol>	Medical genetics	<p>Explaining the scientific material through interactive theoretical lectures and dialogue answers with the participation of all students</p> <p>Distributing students into small groups in practical lessons and discussing common disease cases through presentations that include pictures of ophthalmic</p>	<p>Electronic enrichment exams</p> <p>And the semi-annual exams and final exams.</p>

				and microscopical examinations of diseases, in addition to glass slides and glass models.	
15th-17th	12	<ol style="list-style-type: none"> <li>1. Outlines some vascular diseases</li> <li>2. Understand the pathogenesis and pathological features of ischemic heart diseases</li> <li>3. Understand some congenital heart diseases</li> </ol>			
29th-30th	4	<ol style="list-style-type: none"> <li>1. Outlines central nervous system infection</li> <li>2. Understand the definitions of cerebral edema and hydrocephalus</li> <li>3. List central nervous system neoplasms</li> </ol>			

**12. Course Evaluation**

1. Mid-year exams  
 The theoretical exam: 20 marks  
 Practical exam: 10 marks  
 Total (annual pursuit) 30 marks

2. Final exams  
 The theoretical exam is 50 marks  
 Practical exam: 20 marks  
 The final exam total is 70 marks

Final grade 100%

**13. Learning and Teaching Resources**

Required textbooks (curricular books, if any)	Robbin's Basic Pathology 8 <sup>th</sup> Edition; Kumar, Abbas, Fausto & Mitchell 2010
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Main references (sources)	Robbin's Basic Pathology 8 <sup>th</sup> Edition; Kumar, Abbas, Fausto & Mitchell 2010 Currans atlas of gross and histopathology
Recommended books and references (scientific journals, reports...)	Robbin's Basic Pathology 8 <sup>th</sup> Edition; Kumar, Abbas, Fausto & Mitchell 2010 2-Muir's Text Book of Pathology, 13 <sup>th</sup> Edition; Roderick N M MacSween & KeithWhaley 1994 3-Stevens: Core pathology, 3ed edition 2010. Practical booklet 2010
Electronic References, Websites	Pathology outlines Stevens: Core pathology, 3ed edition 2010.