## **Course Description Form Genetics**

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Genetic	Course N	ame:			
	<u>s</u> Course C	'ada:			
GENG3		Jue.			
	Semester	/ Vear·			
Spring		2023-2024			
		on Preparation Date:			
31/3/202					
		e Attendance Forms:			
]	Full time	(theoretical lecture an	nd practical lecture)	weekly	
<b>6.</b> I	Number	of Credit Hours (Tota	l) / Number of Units	(Total)	
2	2 theoret	ical hours and 3 pract	tical hours per week	for 14 weeks. The	number of unit
	3.5 units				
		dministrator's name (			
		ania salman qahramar	<i>i</i> Email:	daniasalman@uod	iyala.edu.iq
		ali hussain			
		bjectives	, <u> </u>	11 11 1 1 1 1 1 1	7.
Course	Objectiv		ortance of genetics, co		
		Inneru, Chromos	some structure of, and	a Chromosomai adi	normaillies
9. 7	Feaching	and Learning Strates	ries		
Strateg			ence for 14 weeks, i	ncluding two mor	othly exams, da
bilding,	y	exams, and scien		including two mor	iting examp, at
		•••••••••••••••••••••••••••••••••••••••			
10. Co	ourse Str	noturo			
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
WEEK	liouis	Outcomes	name	method	method
			Genetic	Explanation	
				and display of	the exams
		Introduction to the		the model	Daily and
1	2	history and		And the	monthly
1	2	development of		lecture	And final
		genetics.		<b>Dialogue and</b>	reports
		_		discussion	Daily
				Brainstorming	
			Genetic		the exams
		Cytological basis		Explanation	Daily and
2	2	of Mendelian		and display of	monthly
<u> </u>	<u></u>	inheritance (cell		the model	And final
		cycle and mitosis.)			reports
					Daily
			Genetic	Explanation	the exams
		Complementing		and display of	Daily and
		the cytological		the model	monthly
3					
3	2	basis of Mendelian		And the	•
3	2	inheritance		And the lecture	And final
3	2				•

	[		<u> </u>		
			Genetic	Explanation and display of	the exams
	2	Mendelian		the model	Daily and
4		inheritance (law of		And the	monthly
-		isolation).		lecture	And final
				Dialogue and	reports
				discussion	Daily
			Genetic	Explanation	
	2		Genetic	and display of	the exams
		Mendelian		the model	Daily and
5		inheritance (law of free distribution).		And the	monthly
U				lecture	And final
				Dialogue and	reports
				discussion	Daily
		Exam	l		
			Genetic	Explanation	the even
				and display of	the exams
		Interaction		the model	Daily and
6	2	between genes and		And the	monthly And final
		superiority states.		lecture	reports
				<b>Dialogue and</b>	Daily
				discussion	Daily
			Genetic	Explanation	the exams
		The chemical basis		and display of	Daily and
		of heredity and the		the model	monthly
7	2	construction of		And the	And final
		DNA.		lecture	reports
		DINA.		Dialogue and	Daily
				discussion	Dany
	2	Complementing	Genetic	Explanation	the exams
		the chemical basis		and display of	Daily and
		of genetic material		the model	monthly
8		(DNA replication,		And the	And final
		cloning, and translation).		lecture	reports
				Dialogue and	Daily
		,	<b>O a a a t</b>	discussion	
	2	Inheritance of multiple alleles.	Genetic	Explanation	the exams
				and display of the model	Daily and
9				And the	monthly
У				lecture	And final
				Dialogue and	reports
				discussion	Daily
			Genetic	Explanation	
	2	2 Sex determination 2 systems and sex-	Genetic	and display of	the exams
				the model	Daily and
10				And the	monthly
10	-	linked genetics		lecture	And final
		mineu genetico		Dialogue and	reports
				discussion	Daily
11	2	Linkage, crossing	Genetic	Explanation	the exams

12	2	and genetic mapping.	Genetic	and display of the model And the lecture Dialogue and discussion Explanation and display of the model And the lecture Dialogue and discussion	Daily and monthly And final reports Daily the exams Daily and monthly And final reports Daily
Lab			T		
Week	Hours	1 0	Unit or subject	0	Evaluation
		Outcomes	name	method	method
1	3	Familiarity with the history and development of genetic sciences	General Genetics	Watching, Dialogue and Discussion	Daily, monthly, final and daily reports
2	3	Learn about the cell cycle and the process of mitosis	General Genetics	Watching, Dialogue and Discussion	Daily,
3	3	Learn about meiotic cell division	General Genetics	Watching, Dialogue and Discussion	Daily, monthly, final and daily reports
4	3	Learn about the law of segregation according to Mendelian inheritance	General Genetics	Watching, Dialogue and Discussion	Daily, monthly, final and daily reports
5	3	Learn about the law of free distribution according to Mendelian inheritance	General Genetics	Watching, Dialogue and Discussion	Daily, monthly, final and daily reports
6	3	First month exam	General Genetics	Watching, Dialogue and Discussion	Daily, monthly, final and daily reports
7	3	The student learns the relationship between genes	General Genetics	Watching, Dialogue and Discussion	Daily,
8	3	The student learns who the genetic material is made of	General Genetics	Watching, Dialogue and Discussion	Daily,

					-	-
		and how it is				daily reports
		repeated and				
		transmitted to the				
		next generations				
		The student learns	Ge	neral Genetics	Watching,	Daily,
		how genetic			<b>Dialogue and</b>	monthly,
9	2	material is			Discussion	final and
9	3	replicated and				daily reports
		transmitted to the				
		next generations.				
		The student learns	Ge	neral Genetics	Watching,	Daily,
		what multiple			Dialogue and	monthly,
10	3	alleles are and			Discussion	final and
	-	their effect on			Discussion	daily reports
		genetic variations.				JF
		The student learns	Ge	neral Genetics	Watching,	Daily,
		about the	00		Dialogue and	monthly,
	3	relationship			Discussion	final and
		between heredity			Discussion	daily reports
11		and the				uany reports
11	5	transmission of				
		sexual				
		characteristics to				
		generations.				
		The student learns	Co	neral Genetics	Watching,	Daily,
			GC	lieral Genetics	Dialogue and	monthly,
12	3	what linkage,			Discussion	final and
		crossing over, and			Discussion	
		genetic mapping	Co	neral Genetics	Watahing	daily reports
			Ge	lieral Genetics	Watching,	Daily,
13	3	Exam			Dialogue and	monthly,
					Discussion	final and
1 0						daily reports
1. Course			uda	t offoctivonas J	uning the lesture	
	v	exams, reports, and st Feaching Resources	uuer	n enecuveness a	uring the lecture	
	0	8	``	G		014 3000
kequired te	extdooks	(curricular books, if a	any)	-	mmings, Clug (2	014, 2006).
				G	enetics Concepts	
Main refere	ences (so	urces)				
Deer	- LoL			Cross Sair C		_
Recommen		ooks and referen	ices	-	ociety Of America	1
(scientific j	ournals,	reports)		Library Genesi		
				-	_ principles and a	a practice
				Agronomy jour	mal.	
				Fundamentals of	of Weed Science	
Electronic 1	Referenc	es, Websites				
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