Course Name:         HUMAN GENETICS           Code         Regular Semester         Theoretical         Practical         Credits         ECTS           MA 206         4         2         3         4           Name of Lecturer(s)- Academic Title:         Snatha Jumaah - Lecturer         -	TISHK INTERNATIONAL UNIVERSITY FACULTY OF APPLIED SCIENCE Department of MEDICAL ANALYSIS, -2022 Spring Course Information for MA 206 HUMAN GENETICS										
Code         Regular Semester         Theoretical         Practical         Credits         ECTS           Mance of Lecturer(5)- Academic Title:         Shatha Jumaah - Lecturer         2         3         4           Teaching Assistant:         Mr. Adam Jalal Mohammed         2         3         4           Course Language: -         -		Course Name: HUMAN GENETICS									
MA 206     4     2     2     3     4       Name of Lecture(s)- Academic Tites: Shatha Jumaah - Lecturer     Shatha Jumaah - Lecturer       Teaching Assistant: Mr. Adam Jalal Mohammed     Course Language     -       Course Type: Main     Mr. Adam Jalal Mohammed     -       Course Type: Main     Office Hours     SUNDAY 11-13     -       Course Course Type: Main     Tei:07731329529     -     -       Teacher's academic profile: Profile: Profile: Rourse Objectives: This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover transmission genome analysis, personal gene therapy and roules. Muman Genome Project, identification, modern technologies for genome analysis, personal genetics2centric view of human biology and disease. 9 develop a better appreciation of the power and the limitations of a understanding of the concepts and scientific methods of modem genetics as at applies to humans. 2) develop a better appreciation of the genome was one of diseases are questions in genetics research and dinical practice 4) develop critical thinking with regard to humans. 2) develop a better appreciation of the genome was one of diseases are influenced by the genetic code and some occur exclusively from genetic disorders. Contemporary medical practice and subsequent decryption of the genome was one of diseases are influenced by the genetic code and some occur exclusively from genetic disorders. Contemporary medical practice and disease diagnosis. The evolving field of genetic sectuality and is an essential part of medical practice and disease diagnosis. The evolving theid of genetic sectuality and important subject. Medical Analysists will requently cond	Co	ode	Reg	ular Semeste	r	Theoretical	Practical	Credits	ECTS		
Name of Lecturer(s): Academic Title:         Shatha Jumaah - Lecturer           Teaching Assistant:         Mr. Adam Jalal Mohammed           Course Language:         -           Course Type:         Main           Office Hours SUNDAY 11-13         -           Course Type:         Main           Office Hours SUNDAY 11-13         -           Contact Email:         shatha.saadi@tu.edu.iq           Teacher's academic         PhD Holder           Protective:         This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover transmission genetics, the Human Genome Project, identification, modern technologies for genome analysis, personal gene therapy and encore genomics. We will also facus surrent topics such as genetic testing, gene therapy and encore genomics and scientific methods of modern genetics as it applies to humans. 2) develop a better appreciation of the power and the limitations of a genetics:contrivie wor thuman biology. A discus surrent humany were reports of advances in genetics and their social implications.           Course Description         The discovery of genes and subsequent decryption of the genome was on of the gradest (Course overview): scientific advancements in human biology. A discustantial number of diseases and there coure since into the influenced by the genetic code and sone accur exclusively from genetic code frequently and of medical practice and disease diagnosis. The evolving field of genetics contemporary medical practice and disease diagnosis. The evolving field of genetics contemporary medical practice and acade	MA	206		4		2	2	3	4		
Teaching Assistant: Mr. Adam Jalal Mohammed         Course Type: Main         Office Hours         Office Hours         SUNDAY 11-13         Contact Email: shatha.saadi@du.edu.iq         Teacher's academic         profile         PhD Holder         Course Objectives: This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover transmission genetics, the Human Genome Project, identification, modern technologies for genome analysis, personal genomics and cancer genomics. We will also discus current topics such as genetic testing, gene therapy and embryonic stem cells. The objectives are to 1) provide a slid understanding of the concepts and scientift methods of modern genetics as it applies to humans. 2) develop a better appreciation of the power and the limitations of a genetics?contrive wor of human biology and discus current topics current thinking with regard to news reports of advances in genetics and their social implications.         Course Description         (Course overview): scientific advancements in human biology and discus current topics expanses as a miduce and disease diagnosis. The evolving field of genetics continges as a wide range of sub-specialities and their social implications.         Course Description         (Course overview): scientific advancement in human biology and discover current discover scienter condification and their social implications.	Name of Lecturer(s)- Academic Title:			Shatha Juma	ah - Lecturer						
Course Language:         Course Type: Main           Office Hours SUNDAY 11-13         Contact Email: shatha.saadi@tu.edu.iq           Teacher's academic profile:         PhD Holder           Course Objectives:         This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and cancer genomics. We will also discuss current topics such as genetic testing, gene therapy and embryonic stem cells. The objectives are to 1) provide testing, gene therapy and embryonic stem cells. The objectives are to 1) provide to sait applies to humans. 2) develop a better appreciation of the power and the limitations of a genetics?centric view of human biology and discuss current holes or motheds of models as it applies to numers and and other social in plications.           Course Description         The discovery of genes and subsequent decryption of the genetics acont discus accurrent discloped conceptual skills to address questions in genetics research and clinical practice 4) develop conceptual skills to address questions in genetics and thera social implications.           Course Description         The discovery of genes and subsequent decryption of the genetics contemporary medical practice employs the analysis of the genetic code frequently and in portant subject. Medical Analysists will frequently conduct genetic testing and important subject. Medical Analysists will requere through this course.           Course Description         Topic           1         2         6-10/2/2022           2         13-171/2/2022         Gene structure & Organization I           3         2         20-24/2/2022         <		Teaching	g Assistant:	Mr. Adam Jalal Mohammed							
Course Type:         Main           Office Hours         SUNDAY 11-13           Contact Email:         shatha.saadi@tu.edu.lq           Teacher's academic profile:         PhD Holder           Course Objectives:         This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover transmission genetics, the Human Genome Project, identification, modern technologies for genome analysis, personal genomics and cancer genomics. We will also discuss current topics such as genetic testing, gene therapy and embryonic stem cells. The objectives are to 1) provide a solid understanding of the concepts and scientific methods of modern genetics as it applies to humans. 2) develop a better appetiation of the genome was one of the greatest questions in genetics research and clinical practice 4) develop conceptual skills to address questions in genetics research and clinical practice 4) develop conceptual skills to address everview; scientific advancements in human biology. A substantial number of diseases are influenced by the genetic code and some occur exclusively from genetic disorders. Contemporary medical practice employs the analysis of the genetic code frequently and is an essential part of medical practice and disease diagnosis. The evolving field of genetic sector sciences and by the genetic to develop a better and this course aims to infrouce students to future practice and academic practice though this course.           Curse Verview;         Date         Topic           1         2         6-10/2/2022         Gene structure & Organization I           3         2         20-24/2/2022         Gene structure & Orga		Course	Language:	-							
Office Hours SUNDAY 11-13           Contact Email: shafta saadi@tu edu.iq           Teacher's academic           Phot Holder           Profile:           Phot Holder           Course Objectives:           This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover transmission genetics, the Human Genome Project, identification, modern technologies for genome analysis, personal genomics and cancer genomics. We will all ob discuss current topics such as genetic testing, gene therapy and embryonic stem cells. The objectives are to 1) provide a solid understanding of the concepts and subsequent decryption of the genome was one of the greatest on understanding of the concepts and subsequent decryption of the genome was one of the greatest (Course overview): scientific advancements in human biology. A substantial number of diseases are influenced by the genetic code and some occur exclusively from genetic disorders. Contemporary medical practice and disease diagnosis. The evolving field of genetics encompasses a wide range of sub-specialities and this course aims to introduce students to this fascinating and important subject. Medical Analysists will requerity conduct genetic testing and we aim to prepare students for future practice and academic practice though this course.           Course Decription           The discourse prepare discourse aims to introduce students to this fascinating and important subject. Medical Analysists will requerity conduct genetic testing and we aim to prepare students for future practice and academic practice though this course		Co	ourse Type:	Main	10						
Contact Email:         Brain asaaligetu eutiq           Tei.07731329529         Tei.07731329529           Course Objectives:         This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover transmission genetics, the Human Genome Project, identification, modern technologies for genome analysis, personal genomics and cancer genores than dialeo discuss current topics such as genetic testing, gene therapy and embryonic stem cells. The objectives are to 1) provide a solid understanding of the concepts and scientific methods of modern genetics as it applies to humans. 2) develop a better appreciation of the power and the limitations of a genetics: accentric view of human biology and disease. 3) develop critical thinking with regard to news reports of advances in genetics and their social implications.           Course Description         The discovery of genes and subsequent decryption of the genome was one of the greatest (Course overview): scientific advancements in human biology. A substantial number of diseases are influenced by the genetic code and some occur exclusively from genetics scontemporary medical practice employs the analysis of the genetic end disease and academic practice through this course.           Veriet         Vortex         Topic           1         2         6-10/2/2022         Gene structure & Organization I           3         2         20-24/2/2022         Gene structure & Organization I           4         2         27/2-3/3/2022         RNA Splicing           5         2         6-10/3/2022         Translatio		0	thice Hours	SUNDAY 11-	13 Otiv odvije						
Teacher's academic profile:           PhD Holder           Course Objectives:           This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover transmission genetics, the Human Genome Project, identification, modern technologies for genome analysis, personal genomics and cancer genomics. We will also discuss current topics such as genetic testing, gene therapy and embryonic stem cells. The objectives are to 1) provide a solid understanding of the concepts and scientific methods of modern genetics as it applies to humans. 2) develop a better appreciation of the power and the limitations of a genetics:2centric view of human biology and disease. 3) develop correctual skills to address questions in genetics research and clinical practice 4) develop critical thinking with regard to news reports of advancements in human biology. A substantial number of diseases are influenced by the genetic code and some occur exclusively from genetic disorders. Contemporary medical practice and disease diagnosis. The evolving field of genetics encompasses a wide range of sub-specialities and this course aims to introduce students to this fascinating and important subject. Medical Analysist will frequently conduct genetic testing and we aim to prepare students for future practice and academic practice though this course. COURSE CONTENT           Week Hour         Date         Topic           1         2         6-10/3/2022         Gene structure & Organization I           3         2         20-24/2/2022         Gene structure & Organization I           4         2         2/7/3/3/2022         Rinal Fransduc		Cor	itact Email:	snatna.saadi(	@tiu.eau.iq						
Teacher's academic profile:         PhD Holder           Course Objectives:         This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover tramsmission genetics, the Human Genome Project, identification, modern technologies for genome analysis, personal genomics and cancer genomics. We will also discuss current topics such as genetic testing, gene therapy and embryonic stem cells. The objectives are to 1) provide a solid understanding of the concepts and scientific methods of modern genetics as it applies to humans. 2) develop a better appreciation of the power and the limitations of a genetics2ecentric view of human biology and disease. 3) develop conceptual skills to address questions in genetics research and clinical practice 4) develop citical thinking with regard to news reports of advances in genetics and their social implications.           Course Description (Course overview): scientific advancements in human biology. A substantial number of diseases are influenced by the genetic code and some occur exclusively from genetic disorders. Contemporary medical practice and discase diagnosis. The evolving field of genetics encompasses a wide range of sub-specialites and this course aims to introduce students to this fascinating and important subject. Medical Analysiste will frequently conduct genetic testing and we aim to prepare students for future practice and academic practice though this course. COURSE CONTENT           Veek Hour           Date           Topic           1         2         6-10/2/2022         Gene structure & Organization I           4				Tel:07731329	529						
Course Objectives:       This course will cover hereditary and molecular genetics as it applies to humans, with a strong genomics and human disease perspective. It will cover transmission genetics, the Human Genome Project, identification, modern technologies for genome analysis, personal genomics and cancer genomics. We will also discuss current topics such as genetic testing, gene therapy and embryonic stem cells. The objectives are to 1) provide a solid understanding of the concepts and scientific methods of modern genetics as it applies to humans. J develop better appreciation of the power and the limitations of a genetics/2centric view of human biology and disease. 3) develop conceptual skills to address questions in genetics in genetics and their social implications.         Course Description       The discovery of genes and subsequent decryption of the genome was one of the greatest (Course overview):         Course Description       The discovery of genes and subsequent decryption of the genome was one of the greatest and implications.         (Course overview):       scientific advancements in human biology. A substantial number of diseases are influenced by the genetic code and some occur exclusively from genetic disorders. Contemporary medical practice and disease dianosis. The evolving field of genetics encompasses a wide range of sub-specialities and this course aims to introduce students to this fascinating and important subject. Medical Analysists will frequently conduct genetic testing and we aim to prepare students for future practice and academic practice and genetic encompasses a wide range of sub-specialities and this course almostication the power.         2       2       13.171/2/2022       Gene structure & Organization I         3       2       2-721	-	Teacher'	s academic profile:	PhD Holder							
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1       2       10-10/2/2022       Gene structure & Organization I         3       2       20-24/2/2022       Gene structure & Organization II         4       2       27/2-3/3/2022       RNA Splicing         5       2       6-10/3/2022       Translation & Genetic Code         6       2       27-31/3/2022       Signal Transduction         7       2       3-7/4/2022       Signal Transduction         9       2       17-21/4/2022       Midterm Exam         9       2       17-21/4/2022       Genetic Disease         11       2       8-12/5/2022       Chromosome linked disease         12       2       15-19/5/2022       Apoptosis	1	пош 2	6-10/2/2	10 <b>0</b> 1							
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4       2       27/2-3/3/2022       RNA Splicing         5       2       6-10/3/2022       Translation & Genetic Code         6       2       27-31/3/2022       Signal Transduction         7       2       3-7/4/2022       Signal Transduction         8       2       10-14/4/2022       Midterm Exam         9       2       17-21/4/2022       Pedigree Analysis         10       2       24-28/4/2022       Genetic Disease         11       2       8-12/5/2022       Chromosome linked disease         12       2       15-19/5/2022       Apoptosis	3	2	20-24/2/2	2022 Gen	Gene structure & Organization II						
5       2       6-10/3/2022       Translation & Genetic Code         6       2       27-31/3/2022       Signal Transduction         7       2       3-7/4/2022       8         8       2       10-14/4/2022       Midterm Exam         9       2       17-21/4/2022       Pedigree Analysis         10       2       24-28/4/2022       Genetic Disease         11       2       8-12/5/2022       Chromosome linked disease         12       2       15-19/5/2022       Apoptosis	4	2	27/2-3/3/2	2022 RNA	Splicing	0					
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13	2	22-26/5/2	2022	Cancer			
14	2	29/5-2/6/2	2022	revision			
15	2	5-9/6/20	)22	Final Exam			
16	2	12-16/6/2	2022	Final Exam			
				COURSE/STUDENT LEARNING OUTC	OMES		
1	comp	are the geneti	ic structu	re of human gonosomes.			
2	explai	n the organiz	ation of tl	ne DNA in human genome.			
3	illustra	ate gene fami	lies.				
4	quest	ion human ge	nome ab	out size and functional activity.evaluate g	genetic diseases.		
5	illustra	ate autosoma	l and gon	osomal genetic diseases.			
			COUR	SE'S CONTRIBUTION TO PROGRAM	OUTCOMES		
	Droge	(E com Loorning	Blank : no	o contribution, I: Introduction, P: Profecie	nt, A: Advanced)		Cont
	Evalu	ate clinical lat	oratory	ies data hy interpreting laboratory results an	d relating the data	to various	Cont.
1	disea	se states.	boratory	ratory data by interpreting laboratory results and relating the data to vario			А
2	apply	principles of e	evidence	-based medicine to determine clinical dia	ignoses.		Р
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology						А
4	formulate and implement acceptable treatment modalities to various disease states.					Р	
5	use technology effectively in the delivery of instruction, assessment, and professional development.				I		
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.						I
7	exhibit organizational skills, accountability, and ethical behavior.					А	
8	apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment.						I
9	apply problem-solving and decision-making skills.					Р	
10	apply and promote health policies and regulatory standards in the field career.					Р	
11	devel	op research ir	n the field	of medical analysis using qualitative an	d quantitative meth	nods.	
Prerequisites (Course Reading List and References):1.Human Molecular Genetics ByTom Strachan,Andrew Read Copyright Year 2019 2.Nussbaum, Robert L.; McInnes, Roderick R.; Willard, Huntington F. (2007). 3Genetics in References.References):Medicine (7th ed.). Philadelphia: Saunders. McKusick, Victor A.; Lopez, A (30 July 2010							netics in 010
Student's obligation 1. (Special Requirements): pr 4. ha be st			1. They have t o attend all the classes of human genetics 2. doing all the assessments procedures. 3. The course activity will gonna be presentation & they have to prepare. 4. Doing all the classroom activities. Genetics has a reputation for being hard to teach and hard to learn But \"simple\" does not necessarily mean \"easy.\" Genetics is \"simple\" because it can be reduced to an abstract formalism. General principles can explain many specific observations, and predictions can be made with probabilities that can be calculated.				
Cour	rse Boo	ok/Textbook:	VOGEL AND MOTULSKY'S HUMAN GENETICS. Medical genetics and genomics 2016				
Other Course Materials/References:			<ul> <li>Wooding, Stephen (28 June 2004). "Natural selection at work in genetic variation to taste".</li> <li>Medical News Today. Archived from the original on 2007-12-13. McKusick, Victor A. (10 February 2009). "Widow's Peak". Online Mendelian Inheritance in Man. Johns Hopkins University. 194000. Archived from the original on 9 December 2015. Nussbaum, Robert L.; McInnes, Roderick R.; Willard, Huntington F. (2007). Genetics in Medicine (7th ed.).</li> <li>McKusick, Victor A. (10 February 2009). "Widow's Peak". Online Mendelian Inheritance in Man. Johns Hopkins University. 194000. Archived from the original on 9 December 2015.</li> <li>McKusick, Victor A. (10 February 2009). "Widow's Peak". Online Mendelian Inheritance in Man. Johns Hopkins University. 194000. Archived from the original on 9 December 2015.</li> <li>"Mendelian Traits in Humans" (PDF). Human Genetics. San Diego Supercomputer Center (SDSC). McKusick, Victor A. (23 March 2013). "Cleft Chin". Online Mendelian Inheritance in Man. Johns Hopkins University. 119000. Archived from the original on 29 April 2017.</li> </ul>				
Teaching Methods (Forms of Teaching):							
COURSE EVALUATION CRITERIA							
Method					Quantity	Percentage	e (%)
Attendance				1 5			
Participation					1	5	

Quiz	2	5
Midterm Exam	1	20
Laboratory	1	5
Laboratory	1	5
Lab/Practical Exam(s)	1	10
Final Exam	1	40
Total		100

 ${\bf Examinations:}\ {\rm Essay}\ {\rm Questions,}\ {\rm True-False,}\ {\rm Fill}\ {\rm in}\ {\rm the}\ {\rm Blanks,}\ {\rm Multiple}\ {\rm Choices,}\ {\rm Short}\ {\rm Answers,}\ {\rm Matching,}\ ,\ ,$ 

## Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD						
Activities	Quantity	Workload Hours for 1 quantity*	Total Workload			
Theoretical Hours	16	2	32			
Practical Hours	16	2	16			
Final Exam	1	40	40			
Attendance	1	10	10			
Participation	1	5	5			
Quiz	2		0			
Midterm Exam	1		0			
Laboratory	1		0			
Laboratory	1		0			
Lab/Practical Exam(s)	1		0			
Total Workload			103			
ECTS Credit (Total workload/25)			4.12			

## Peer review

Signature:	Signature:	Signature:
Name:	Name:	Name:
Lecturer	Head of Department	Dean