TISHK INTERNATIONAL UNIVERSITY FACULTY OF ENGINEERING Department of CIVIL ENGINEERING, 2020-2021 Spring Course Information for CHE 101 GENERAL CHEMISTRY

					OF CHE TOT GENER					
	Co	urse Name:	GENE	RAL CHEMİSTR`	Y					
С	ode	Re	gular S	Semester	Theoretical	Practical	Credits	ECTS		
СН	E 101		2		2	2	3	4		
Name of Lecturer(s)- Academic Title:			Mohammed Moayyad -							
٦		g Assistant:								
		Language:	ENGLISH							
		ourse Type:								
Office Hours										
Contact Email:			mohammed.moayyad@tiu.edu.iq							
				Tel:07515243665						
Teacher's academic profile:			Accidiant i acturar							
Course Objectives:			To enhance students understanding in general chemistry							
			Classification of the materials, atomic structure, periodic table, molecular structure, bonding in solid materials, structure of crystalline solids, mechanical properties of the materials, phase diagrams, thermal processing of metal alloys, properties and use of ceramics, glasses and composites, material selection, and design.							
					OURSE CONTENT					
Week		Date		Topic						
1	2	28/3-1/4/2		Final Exam						
2	2	4-8/4/20	121	Fina l Exam						
3	2	11-15/4/2	021	Atoms and ele	ment					
4	2	18-22/4/2021		— · · · · · · · · · · · · · · · · · · ·						
5	2	2 25-29/4/2021		021 Midterm Exam						
6	2 2-6/5/2021		21	21 Compounds and chemical bonds						
7	2									
8	2 16-20/5/2021			Midterm Exam						
•	0 00 07/5/0004		0024	224 Palancina chemical equations						
9 10	2 23-27/5/2021 2 30/5-3/6/2021		3							
10	2 30/3-3/0/2021 balancing chemical equali				modi equations					
11	2 6-10/6/2021		chemistry of ce	ement						
12	2			•						
				•						
13	2	20-24/6/2	2021	Final Exam						
				COURSE/STUD	DENT LEARNING OUT	TCOMES				
1	To give	e fundamenta	ls of ge	eneral chemistry						
2	To mak	ke students fa	amiliar	with atom						
3				with chemical bor	nds					
4				with solutions						
5	Apply t	these knowle	dge in t	the field of civil er	ngineering.					
			COU	RSE'S CONTRIE	BUTION TO PROGRA	M OUTCOMES				

				t			'	
	ا Program Learning			oution, I: Introduction	n, P: Profecier	it, A: Advanced)		Cont.
1	Apply principles of			ience and enginee	rina			COIIL.
2	Design and conduc			_	_	ta accuratoly		P
3	-	-		•	-	•	le.	A
4	Design an engineering system, component, or process to meet desired industrial needs. Identify, formulate and solve complex engineering problems							P
5	Apply, in design and construction, the most modern design codes, standards and specifications such as; AISC, ACI, ASCE 7, IBC, etc.							
6	Use the techniques, skills, and modern engineering tools, such as surveying instruments, and							
7	Apply knowledge ar	designing software that are necessary for engineering practices. Apply knowledge and skills in construction project management and recognition of international						
8		standards and methodologies						
	=	Manage to work with multi-disciplinary teams and communicate effectively.						
9	Identify the moral values that ought to guide the Civil Engineering profession and resolve the moral issues in the profession.							
10	paramount safety, h	Apply the principles of sustainable development in their professional duties which go in line with the paramount safety, health and welfare of the public.						
11	Analyze the impact of engineering solutions in a global and social context							
12	Identify the need ar issues.	nd have	the abili	ty to engage in lifeld	ong learning ar	nd knowledge of d	contemporary	
Pre	requisites (Course Reading List and References):	Genera	al chemi	stry, the essential co	oncepts by Ray	ymond Chang, 5tl	n edition.	
	tudent's obligation cial Requirements):	Course	book					
	Weekly	Week	Hour	Date	Topics			
Labora	tory/Practice Plan:	1	2	28/3-1/4/2021	introduction	1		
		2	2	4-8/4/2021	Safety in La	ab		
					•			
		3	2	11-15/4/2021	Safety in La	ab		
		4	2	18-22/4/2021	preparation	of solution		
		5	2	25-29/4/2021	preparation			
		6	2	2-6/5/2021	recrystaliza	tion		
		7	2	9-11/5/2021	recrystaliza	tion		
		8	2	16-20/5/2021	recrystaliza	tion		
		9	2	23-27/5/2021	titration			
		10	2	30/5-3/6/2021	titration			
		11	2	6-10/6/2021	titration			
		12	2	13-17/6/2021	review			
		13	2	20-24/6/2021	final exam			
Cour	se Book/Textbook:	Genera	al chemi:	stry, the essential co	ncepts by Rav	mond Chang, 5tl	n edition.	
	Other Course terials/References:			stry, the essential co				
	ng Methods (Forms of Teaching):	Lecture	es, Exce	rsises, Presentation	, Seminar, Pro	ject		
	COURSE EVALUATION CRITERIA							
Method	I					Quantity	Percentage	e (%)
Attenda	ince					1	2	

Homework	1	3
Midterm Exam(s)	1	25
Laboratory	1	25
Final Exam	1	40
Total		100

Examinations: Essay Questions, True-False, Fill in the Blanks, Multiple Choices

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD						
Activities	Quantity	Workload Hours for 1 quantity*	Total Workload			
Theoretical Hours	13	2	26			
Practical Hours	13	2	13			
Final Exam	1	8	8			
Attendance	1	2	2			
Quiz	1	4	4			
Homework	1	364	364			
Midterm Exam(s)	1		0			
Laboratory	1		0			
Total Workload			417			
ECTS Credit (Total workload/25)			16.68			

Peer review

Signature:Signature:Signature:Name:Name:Name:LecturerHead of DepartmentDean