Palestine Technical University-Kadoorie
Course Syllabus

Faculty:			
Course Title:	General Chemistry (I)	**Course Number:**	15050101
Year:	2016/2017	**Semester:**	
Department:	Chemistry	**Designation:**	
Prerequisite(s):	None		
Instructor:	Dr. Mansour Ararawi, Dr. Sameer Bsharat, Ms. Nour Abdul Rahman, and Dr. Lamees Z. Majjad		
Instructor's e-mail:	lameesmajjad@yahoo.com. , mansourararawi@yahoo.com. , s.bsharat@ptuk.edu.ps, nour.nayef@najah.edu		
Office Hours:			
Class Time:		**Class Room:**	
Course description:	This course is designed to give students a working knowledge of the most important chemical principles as the foundation for study of more advanced topics such as chemical analysis, applied chemistry, inorganic and organic chemistry.		
Textbook(s):	General Chemistry, Ebbing and Gammon 8th edition		
Other required material (References):			
Course objectives:	*On successful completion of this course the student will be able to…* 1- Demonstrate an understanding of basic chemical nomenclature and formulas. 2- Explain concepts of basic atomic theory and relate the theory to the periodic table. 3- Write chemical reactions and solve problems involving chemical stoichiometry. 4- Describe the nature of aqueous solutions and reactions occurring in aqueous solution. 5- To apply the Ideal Gas Law equation, Avogadro's Law and Dalton's Law. 6- Apply concepts of thermochemistry to physical and chemical changes. 7- Describe the electronic structure of atoms and relate the electronic structure to atomic properties. 8- Demonstrate an understanding of chemical bonding and its application to molecular structure.		

Topics covered and Calendar:

Topics	Weeks or number of hours
Chemistry and measurements	2
Atoms, Molecules, and Ions	5
Calculations with Chemical Formulas and Equations	4
Chemical Reactions	6
The Gaseous State	4
Thermochemistry	6
Quantum Theory of the Atom	4

	Electron Configuration and Periodicity	3
	Ionic and Covalent Bonding	5
	Molecular Geometry and Chemical Bonding Theory	3
Grading Plan:	First Exam (30 Points) Second Exam (30 Points) Semester works (00 Points) Final Exam (40 Points) Will be announced by the registrar	
General Notes: **Class Policies**	1-University regulation Regarding absentees will be Applied 2-Names will be read at the beginning of the class and anyone coming after that will be marked absent 3- All mobiles must be switched off during class	
Prepared by: Dr. Lamees Z. Majjad		**Date: 15 February 2017**