BA118 Chemistry

COURSE INFORMATION

Droroguisitos	Acaden	nic Year & Level	Teaching Methods			- Credit Hrs.	
Prerequisites	Year	Semester	Lecture	Tutorial	Lab.	- Credit Hrs.	
None	1	1	2		2	2	

COURSE AIM

The Science of chemistry is characterized by its close relation with the other branches of sciences and with the technological applications of these sciences which emerge in the mineral oil, medication, chemical textile and other industries. This course includes topics of specialized chemical engineering technology without going through details.

COURSE WEEKLY CONTENTS

- 1 States of matter and Gaseous phase
- 2 Properties of Gases.
- 3 Effusion, diffusion, and root mean square velocity of gases.
- 4 Deviation of real gases
- 5 Introduction to periodic table, Electronic configuration and groups of elements
- 6 Properties of elements and periodicity.
- 7 Midterm Exam
- 8 Electrochemical series-polarization-passivity.
- 9 Definition of corrosion of metals & corrosive environments
- 10 Forms of corrosion , uniform , galvanic and D.A.C, Pitting corrosion , S.C.C , erosion corrosion and L.G.C
- 11 Coating protection & inhibitors, cathodic protection
- 12 12th Assessment
- 13 Properties of liquid fuel and combustion reactions
- 14 Continue, fuel properties and combustion reactions.
- 15 Revision

STUDENT GRADING & ASSESSMENT

Weeks	Exams		Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20	Midterm	← To be	1 0 freely distrib	M A uted among	R K S possible asses	→ sments	30
8 to 12	+			2 0	МА	RKS	\rightarrow	20
13 to 15	\downarrow			1 0	МА	RKS	\rightarrow	10
16 or 17	40	Final						40
Total	Exams		Assign.	Quizzes	Reports	Present.	Lab.	100

REFERENCES

Textbook	Chemistry, 10th edn., R. Chang, McGraw-Hill, New York, 2010.			
Other	Chemistry, 9th edn., S. S. Zumdahl, S. A. Zumdahl, Brooks Cole, Belmont, 2014.			
	General Chemistry: Principles and Modern Applications, 10th edn., R. H. Petrucci,			
	Pearson Canada Inc., Toronto, Ontario, 2011.			