

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	General Chemistry Lab
Course number	PHCH1103
Faculty	
Department	
Course type	College Needs
Course level	1
Credit hours (theoretical)	0
Credit hours (practical)	1
Course Prerequisites	

#### Course Objectives

1 - Knowledge of safety measurements in chemistry lab
2 - Methods to identify a substance through chemical and physical properties
3 - Examination of a substance purity
4 - Preparation of a lab report
5 - Classical methods in quantitative analysis

#### Intended Learning Outcomes

Knowledge and Understanding	* Chemical formula and chemical equations
	* Methods for qualitative and quantitative analysis
Intellectual Skills	* Selection of an appropriate issue for analysis
Professional Skills	* Laboratory report preparation
	* Safe work in chemistry lab
General Skill	* The correct use of laboratory glassware and instruments

#### Course Contents

1 - Introduction of safety work in lab
2 - Physical properties examination: Boiling point, solubility
3 - Physical properties examination: density
4 - Chemical formula determination
5 - Limiting reactant
6 - Units of concentration
7 - Empirical formula of hydrated salt
8 - Acid base titration
9 - Redox titration
10 - Iodometric titration

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## Teaching and Learning Methods

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| 1 - Experimental lab manual                                      |
| 2 - Explanation of the practical part in experiment per each lab |
| 3 - Questions to be answered by students related to experiments  |
| 4 - Explanation of the background of experiment per lab          |
| 5 - Explanation of lab report preparation                        |

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## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Quiz and lab reports	10minutes per lab	50
lab attendance		10
Final exam Practical and theoretical	60minutes	40

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## Books and References

Course note	Lab manual
Essential books	Chemistry. R. Chang, 9th Edition, 2007, McGraw Hill Higher Education
Recommended books	.Chemistry. Steven S. Zumdahl, 6th edition, 2002, Houghton Mifflin College Div