

Week	Syllabus
1 <sup>st</sup>	Introduction to analytical chemistry . Qualitative analytical chemistry . Quantitative analytical chemistry .
2 <sup>nd</sup>	Applications of quantitative analysis . First steps in making analysis .
3 <sup>rd</sup> , 4 <sup>th</sup>	Methods of Expressing analytical concentrations: Normality , Formality , Molarity .
5 <sup>th</sup>	Mole traction , Mill equivalent .
6 <sup>th</sup>	Volumetric analysis : principles , standard , solution .
7 <sup>th</sup>	Classification of volumetric method .
8 <sup>th</sup>	Acid-Base indicators , buffer solution .
9 <sup>th</sup>	Precipitation reaction , the PH- scale .
10 <sup>th</sup> , 11 <sup>th</sup>	Gravimetric analysis , calculations .
12 <sup>th</sup>	Solubility of precipitations .
13 <sup>th</sup>	Errors & treatment of analytical data sources of errors , Determinates of errors indeterminate errors , average mode , range , medicine .
14 <sup>th</sup>	Average derivation , standard deviation , variance , method of expressing accuracy .
15 <sup>th</sup>	Absolute error , relative error , rejecting pf experimental result .
16 <sup>th</sup>	Thermodynamic : First law of thermodynamic .