



كلية : التربية للعلوم الصرفة

القسم او الفرع : علوم الحياة

المرحلة: الاولى

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اسم المادة باللغة العربية : كيمياء تحليلية

اسم المادة باللغة الإنكليزية : **Analytical Chemistry**

اسم المحاضرة الرابعة باللغة العربية: التحليل الوزني

اسم المحاضرة الرابعة باللغة الإنكليزية : **Gravimetric Analysis**

• *Gravimetric Analysis*

- *1. Introduction*

- A gravimetric analysis is based upon the measurement of the weight of a substance of known composition that is chemically related to the analyst. Two types of gravimetric methods exist. In *precipitation methods*, the species to be determined is caused to react chemically with a reagent to yield a

product of limited solubility; after filtration and other suitable treatment, the solid residue of known chemical composition is weighed.

- In volatilization methods, the substance to be determined is separated as a gas from the remainder of the sample; here the analysis is based upon the weight of the volatilized substance or upon the weight of the nonvolatile residue. We shall concern principally

with precipitation methods because these are more frequently encountered than methods involving volatilization.