

## المحتوى العلمي المقرر:

### - *Transition Metals*

- *Definition*
- *General properties*
- *First transition series*
- *Oxidation states, Preparation, use and important reactions for:*  
*Titanium, Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel & Copper*

### - *Coordination Chemistry:*

- *Historical Background*
- *Nomenclature of metals complexes*
- *Chemistry of some transition metals*
- *occurrence*
- *Uses*
- *Compounds and reactions of variable oxidation state*

## الكتب الأساسية:

*Inorganic chemistry principles of structure and reactivity*, J. E. Huheey, E. A. Keiter, R. L. Keiter, 4<sup>th</sup> ed., 1997, Harper Collins.

## المرجع المساند:

*Advanced inorganic chemistry*, F. A. Cotton, G. Wilkinson and P.L. Gaus, 3<sup>rd</sup> ed., 1999, Wiley & Sons.