**"Electrochemical Techniques for Inorganic Chemists" is a PhD course at IUT. In this course, several important subjects in inorganic electrochemistry are discussed. Electrochemical techniques such as cyclic voltammetry (CV) and differential pulse voltammetry (DPV or DPP) and linear sweep voltammetry (LSV) are now used widely in inorganic, bioinorganic, and organometallic chemistry and I present here a brief survey in order to convey the just the basic concepts. The syllabus of this course is as follow:**

1. **Review of some elementary concepts**
2. **Voltammetric techniques**
3. **The electrochemical behavior of transition metal complexes**
4. **Molecular wires**

**5-Hybrid analytical techniques; Spectroelectrochemistry**

**(SEC)**

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**Reference Books and Other Publications**

***The books will be supplemented by journal articles and reviews)***

1. **Inorganic Electrochemistry, P. Zanello, *The Royal Society of Chemistry*, 2003.**
2. **Physical Electrochemistry, E. Gileadi, *WILEY-VCH*, 2011.**
3. **Electrochemical Techniques for Inorganic Chemists, Prof. Hadadzadeh,  *IUT*, 2010.**
4. **Handbook of Electrochemistry, C. G. Zoski, *Elsevier*, 2009.**
5. **Spectroelectrochemistry, W. Kaim and A. Klein, *RSC Publishing*, 2010.**
6. **Electrochemistry,**[**C.H. Hamann**](http://www.amazon.com/s/ref=ntt_athr_dp_sr_1?_encoding=UTF8&field-author=Carl%20H.%20Hamann&search-alias=books&sort=relevancerank) **,** [**A. Hamnett**](http://www.amazon.com/s/ref=ntt_athr_dp_sr_2?_encoding=UTF8&field-author=Andrew%20Hamnett&search-alias=books&sort=relevancerank) **,** [**W. Vielstich**](http://www.amazon.com/s/ref=ntt_athr_dp_sr_3?_encoding=UTF8&field-author=Wolf%20Vielstich&search-alias=books&sort=relevancerank)**, *Wiley-VCH*, 2007.**

**7-Electrochemical Methods, A. J. Bard and L.R. Faulkner, *John Wiley***

***& Sons*, 2001.**

**8-Understanding Voltammetry - Problems and Solutions*,* R. G.**

**Compton, C. Batchelor-McAuleyandE. J. F. Dickinson*, World Scientific*, 2012.**

**9- Encyclopedia of Electrochemistry, A.J. Bard and M. Stratmann,**

***Wiley-VCH*, 2006.**

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