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**Course Title :**        **Electrochemical Process Engineering**

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- **Aim:**

Rendering electrochemistry in an engineering viewpoint applicable in chemical process

- **Syllabus:**

Introduction Electrolyte and electrode conductivity electrochemical thermodynamic electrochemical kinetic electrochemical techniques Fuel cells Batteries and capacitors

- **Reading Resources:**

- ✓ Newman, John, and Karen E. Thomas-Alyea. Electrochemical Systems. 3rd ed. Wiley-Interscience, 2004.
- ✓ Bard, Allen J., and Larry R. Faulkner. Electrochemical Methods: Fundamentals and Applications. 2nd ed. Wiley, 2000.
- ✓ O Hayre, Ryan, Suk-Won Cha, et al. Fuel Cell Fundamentals. 2nd ed. Wiley, 2009
- ✓ Huggins, Robert A. Advanced Batteries: Materials Science Aspects. Springer, 2008