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# University of Pretoria Yearbook 2016

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## Electrochemistry 310 (NEC 310)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	16.00
<b>Programmes</b>	<a href="#">BEng Metallurgical Engineering</a> <a href="#">BEng Metallurgical Engineering Engage</a>
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 practicals per week, 3 lectures per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Materials Science and Metallur
<b>Period of presentation</b>	Semester 1

### Module content

Kinetics and thermodynamics of electrochemical reactions of metallurgical importance. Use of equilibrium diagrams to identify possible reactions products. Use of polarisation diagrams to describe reaction kinetics. Application of these principles to metallurgical examples, including corrosion, leaching and electrometallurgy. Influence of substrate composition, electrolyte composition, impurities, reaction products and agitation on kinetics.

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