



**FEDERAL UNIVERSITY OF CEARÁ**  
**Provost Office of Research and Graduate Studies**

**COURSE PROGRAM**

<b>1. PROGRAM:</b>		
GRADUATE PROGRAM IN CHEMISTRY		
<b>2. COMPONENT TYPE:</b>		
Activity ( )	Course ( X )	Module ( )
<b>3. LEVEL:</b>		
Master's Degree ( X )	Doctorate ( X )	
<b>4. COMPONENT IDENTIFICATION:</b>		
Name:	Inorganic Electrochemistry	
Code:	CEP9555	
Hours:	128	
Credits:	08	
Optional course:	Yes ( X )	No ( )
Compulsory course:	Yes ( )	No ( X )
Area:	Inorganic Chemistry	
<b>5. PROFESSOR:</b>		
Profa. Dra. Izaura Cirino Nogueira Diógenes Prof. Dr. Luis Gonzaga de França Lopes Prof. Dr. Tércio de Freitas Paulo		
<b>6. ABSTRACT:</b>		
The course provides the students with an overview on the use of electrochemical techniques for the understanding of the bonding in coordination compounds (thermodynamic stability). At the end of the course, the student must be able to choose the most suitable technique not only to run characterization experiments but also to study inorganic mechanisms.		
<b>7. COURSE PROGRAM:</b>		
1. Overview of fundamental concepts of electrochemistry 2. Voltammetric techniques 3. Spectroelectrochemistry 4. Laboratory experiments		
<b>8. EVALUATION PROCESS:</b>		
Exams, seminars, and workouts		
<b>9. BIBLIOGRAPHY:</b>		
1. Bard, J.A.; Faulkner, L.R.; Electrochemical Methods, Fundamentals and Applications, 2 <sup>nd</sup> ed., Wiley, Estados Unidos, 2000. 2. Sawyer, D.T.; Sobkowiak, A; Roberts, J.L.; Electrochemistry for Chemists, 2a Edição, John Wiley & Sons, Estados Unidos, 1995. 3. Zanello, P.; Inorganic Electrochemistry, theory, practice and application, Royal Society of Chemistry, 2003		

#### 4. Cientific articles