



PROGRAMS AND BIBLIOGRAPHY

Subject	
Code	Name
QI543	Experimental Inorganic Chemistry II

Vector
OF:S-1 T:000 P:000 L:006 O:002 D:000 HS:008 SL:006 C:008 AV:N EX:S FM:75%

Pre requirement
QG650 QI545

Summary
Synthesis, characterization and applications of inorganic compounds, especially transition metal.

Program
Preparation and characterization of transition metal complexes, organometallic compounds of d-block elements and/or bioinorganic model compounds.
Preparation of extended inorganic solids and nanostructured materials.
Characterization of the synthesized compounds, exploring several techniques and properties such as X rays diffraction, electronic spectroscopy, circular dichroism, vibrational spectroscopies, nuclear magnetic resonance, electrochemical, luminescence and magnetic properties.
Application of inorganic compounds in: catalysis, photocatalysis, energy conversion, magnetism, sensors, electrochemistry, optics, among others.

Bibliography
Textbooks and Supplemental Readings Textbooks and reference materials selected by the Professor.

Evaluation criteria
For grading policy, see: Regimento Geral de Graduação, Seção I – Normas Gerais, Capítulo V – Da Avaliação do Aluno na Disciplina. Students are required to attend 75 % of the lectures. For further details, see: Regimento Geral de Graduação, capítulo VI, seção X, artigo 72.