



PROGRAMS AND BIBLIOGRAPHY

Subject	
Code	Name
QG111	Theoretical Chemistry

Vector
OF:S-5 T:002 P:000 L:000 O:000 D:000 HS:002 SL:002 C:002 AV:N EX:S FM:75%

Pre requirement	It does not have
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Summary
Matter and electromagnetic radiation; Atomic structure; Chemical bonding; Intermolecular forces, Metals; Insulators and semiconductors.

Program
<ul style="list-style-type: none">-The electromagnetic radiation and its interaction with matter.-The atomic nucleus.-Atomic models.-Electronic configuration, atomic parameters, periodic table and periodicity.-Ionic bond.-Covalent bond.-Metallic bond.-Conductors and insulators.- Intrinsic and doped semiconductors, electronic devices.- Interatomic and intermolecular interactions.-Materials, including Inorganic polymers and organic polymers.

Bibliography
Chemical Principles. Peter Atkins, Loreta Jonnes, 5ª ed, 2011.

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.