

<i>discipline</i>	chemistry
<i>subject</i>	Theoretical Chemistry I.
<i>lecturers</i>	Prof. Péter G. Szalay
<i>credits</i>	3
<i>period</i>	4
<i>curriculum</i>	<div style="border: 1px solid black; padding: 5px;"> Foundation of quantum mechanics; atomic and molecular wave functions, orbitals; methods of theoretical chemistry: independent particle approximation; valence bond method, the Hückel model; crystal field and ligand field theories; the principals and history of spectroscopy: vibrational and rotational spectroscopy, visible, UV- and electrospectroscopy, magnetic resonance spectroscopy; diffraction methods. </div>
<i>literature</i>	P. W. Atkins and R.S. Friedman, Molecular Quantum Mechanics, Oxford University Press.
<i>form of tuition</i>	Lectures
<i>mode of assessment</i>	written/oral exam