Introductory remarks Functional Analysis (FA) - combines linear algebra & analysis - is a theory of infinite-dimensional verbar spaces and their linear (and nonlinear) maps FA has <u>lots</u> of applications - Partial Differential Equations (PDE's) - Quantum Mechanics (FA is its language !) - Calculus of Variations - Harmonic Analysis - Approximation theory - Numerical maths - Probability theory (& reath. Finance) Chapter O: Recapitulation of basic notions The most fundamental throngs on Topological & oretric spaces are treated in the blandout, available online. Please study carefully! If any questions? can (poscibly) be discussed in Tutorials