

**Appendix G. Selected specialized courses for senior students related to the discussed general course
(available on-line as Supplementary Material only)**

1. Structural analysis using single crystals and powders (2 semesters, lectures + practicals)
2. Spectroscopy of condensed phases (1 semester, lectures + practicals)
3. Introduction into materials (lectures)
4. Basics of crystal chemistry (lectures)
5. Studies of the solid-state transformations *in situ* (lectures)
6. Mechanisms of solid state reactions (lectures)
7. Mechanochemistry (lectures)
8. Research and development of drugs and drug formulations (lectures)
9. Defects in solids (lectures)
10. Physical properties of solids (lectures)