

**PhD Studies at ILT&SR PAS / Wrocław Doctoral School of Institutes of the Polish Academy of Sciences**  
**Experimental methods in solid state physics and chemistry - series of lectures 2020/21**

	<b>Provisional dates</b>	<b>Lecture title</b>	<b>Lecturer</b>	<b>No. of hours</b>
1	13 X 2020	Technologies of single crystal growth	dr hab. Z. Bukowski	2
2	20 X	Technologies for obtaining nanocrystals	dr A. Watras	2
3	27 X, 3, 10, 17, 24 XI	Crystallography and diffraction methods	prof. M. Wołczyr	10
4	1, 8 XII	Synchrotron methods	dr E. Piskorska-Hommel	4
5	15 XII, 12, 19 I 2021	Electron microscopy	prof. L. Kępiński	6
6	26 I, 2 II	IR and Raman spectroscopy	dr hab. M. Ptak	4
7	9, 16, 23 II	Magnetic research	dr hab. A. Pikul	6
8	2, 9 III	Thermal phenomena research methods	dr hab. P. Stachowiak	4
9	16, 23 III	Low temperature research methods	prof. T. Cichorek	4
10	30 III	Laser materials and structures	prof. P. Dereń	2
11	13, 20 IV	Luminescence spectroscopy of functional amorphous and crystalline materials	dr hab. R. Lisiecki	4
12	27 IV	Experimental and computational methods of studying the electronic structure	dr hab. M. Samsel-Czekala	2

**A block of optional laboratory classes: 11, 18, 25 V, 1, 8, 15, 22 VI**