

Master of Science Lecture: Soft Matter Physics, Summer Term 2011

Monday		Thursday	
04.04.2011	<i>info</i>	07.04.2011 lecture 1	<i>Repetition: Statistical Mechanics</i>
11.04.2011	<i>lab course 1</i>	14.04.2011	<i>lab course 1</i>
18.04.2011 lecture 2	<i>Repetition: Statistical Mechanics Elasticity Theory</i>	21.04.2011 lecture 3	<i>Repetition: Elasticity Theory</i>
25.04.2011	<i>EASTER</i>	28.04.2011 lecture 4	<i>Interaction of molecules Israelachvili, Chap. 8</i>
02.05.2011 lecture 5	<i>Electrostatic forces Israelachvili, Chap. 12.3, 12.5, 12.6, 12.15</i>	05.05.2011 lecture 6	<i>Solvation, Structural and hydration forces Israelachvili, Chap. 13</i>
09.05.2011 lecture 7 Seminar	<i>Steric and fluctuation forces Israelachvili, Chap. 14</i>	12.05.2011 lecture 8	<i>Static properties of polymers Doi, Chap. 2</i>
16.05.2011 lecture 9 Seminar	<i>Finishing Chap. 2, Doi Microscopic basis for viscoelasticity, Doi, Chap. 3.7</i>	19.05.2011 lecture 10	<i>Dynamics of flexible polymers in dilute solution Doi, Chap. 4.1, 4.2, 4.7</i>
23.05.2011 lecture 11 Seminar	<i>Many chain systems Doi, Chap. 5.1, 5.4</i>	28.05.2011 lecture 12	<i>Many chain systems Doi, Chap. 5.5, 5.7</i>
30.05.2011 lecture 13 Seminar	<i>Dynamics of a polymer in a fixed network Doi, Chap. 6.1-6.3</i>	02.06.2011	<i>bank holidays</i>
06.06.2011 lecture 14 Seminar	<i>Dynamics of a polymer in a fixed network Doi, finishing Chap. 6.1-6.3</i>	09.06.2011 lecture 15	<i>Linear viscoelasticity of polymer liquids, rodlike polymers Doi, Chap. 7.3, 8.1</i>
13.06.2011	<i>bank holidays</i>	16.06.2011	<i>lab course 2</i>
20.06.2011	<i>lab course 2</i>	23.06.2011	<i>lab course 3</i>
27.06.2011	<i>lab course 3</i>	30.06.2011 lecture 16	<i>Liquid Crystals deGennes, Chap. 1.1-1.3</i>
04.07.2011 lecture 17 Seminar	<i>Liquid Crystals deGennes, Chap. 1.4-1.7</i>	09.07.2011 lecture 18	<i>Long and short range order in nematics deGennes, Chap. 2</i>
11.07.2011 lecture 19 Seminar?	<i>Long and short range order in nematics deGennes, finishing Chap. 2</i>	14.07.2011 lecture 20	<i>Static disorder in a nematic single crystal deGennes, Chap. 3.1, 3.4, 3.5</i>