

Week	Day	Date	Broad topic	Lecture title	Lecture
1	Tues	9-Sep		No class	--
	Wed	10-Sep	Basic principles of NPP / LWR	L00: Introduction /L01: Review of nuclear physics	M. Hursin
2	Tues	16-Sep		L02: Interaction of neutrons with matter	M. Hursin
	Wed	17-Sep		L03: Nuclear fission	M. Hursin
3	Tues	23-Sep		L04: Fundamentals of nuclear reactors	M. Hursin
	Wed	24-Sep		L5: LWR plants - Part 1	M. Hursin
4	Tues	30-Sep		L5: LWR plants - Part 2	A. Pautz
	Wed	1-Oct	Modeling the beast	L06: The diffusion of neutrons - Part 1	A. Pautz
5	Tues	7-Oct		L07: The diffusion of neutrons - Part 2	A. Pautz
	Wed	8-Oct		Applied problem (1)	M. Hursin
6	Tues	14-Oct		L08: Neutron moderation without absorption	A. Pautz
	Wed	15-Oct		L09: Neutron moderation with absorption	M. Hursin
7	Tues	28-Oct		Applied problem (2)	M. Hursin
	Wed	29-Oct		L10: Multigroup theory	M. Hursin
8	Tues	4-Nov		Applied problem (3)	M. Hursin
	Wed	5-Nov		L11: Element of lattice physics	M. Hursin
9	Tues	11-Nov		L12: Neutron kinetics	A. Pautz
	Wed	12-Nov		L12: Neutron kinetics	M. Hursin
10	Tues	18-Nov		L13: Depletion	A. Pautz
	Wed	19-Nov	Reactor Concepts Zoo	L14: Advanced LWR technology	A. Pautz
11	Tues	25-Nov		L15: Breeding and LFR	A. Pautz
	Wed	26-Nov		Applied problem (4)	M. Hursin
12	Tues	2-Dec		L15: Breeding and LFR	M. Hursin
	Wed	3-Dec		Applied problem (5)	M. Hursin
13	Tues	9-Dec		L16: AGR, HTGR	M. Hursin
	Wed	10-Dec	Applied problem (6)	M. Hursin	

14	Tues	16-Dec		L17: Channels, MSR and thorium fuel	A. Pautz
	Wed	17-Dec		Review session	A. Pautz