

Week	Date	Time	Lecture hall	Contact session	Subject	Teacher	Material	
2	Mon. 9.1	14:15-16:00	Ke3	Lecture 1	Course info Introduction to pyrometallurgical unit processes and process phenomena	AJ	Lecture notes	
	Wed. 11.1	12:15-14:00	Ke3	Lecture 2	Gas-Solid Reactions & Gas-Solid Reactors & Process examples	AJ	Seetharaman: Vol. 1: Ch. 1.1, 4.1, 4.7.3.2 Levenspiel: Chemical Reaction Engineering	
3	Mon. 16.1	14:15-16:00	Ke3	Lecture 3	Experimental research techniques (Thermal analysis) Introduction to laboratory project work	MK	Lecture notes Seetharaman (ed.) Fundamentals of metallurgy, Ch. 8	
	Wed. 18.1	12:15-14:00	Ke3	Lecture 4	Metallurgical melts (slag, metal, matte) Reactions Involving Liquid Phases	AJ	Seetharaman: Vol. 2: Ch. 2.5	
4	Mon. 23.1	14:15-16:00	Ke3	Lecture 5	Presentation of Experimental plan	Students		
	Wed. 25.1	12:15-14:00	Ke3	Lecture 6	Interfacial phenomena	AJ	Seetharaman: Vol. 2: Ch. 1.1, 1.2, 1.5, 1.7, 1.8 2.4, 3.41-3.4.3	
5	Mon. 30.1	14:15-16:00	Ke3	Lecture 7	Pyrorefining - Process examples	AJ	Seetharaman: Vol. 2: Ch. 2.5.3 Vol. 3A: Ch. 1.4.4, 1.6.2.2, 1.6.3.2	
	Wed. 1.2	12:15-14:00	Ke3	Lecture 8	Experimental research techniques - Interfacial phenomena	MK	Seetharaman: Vol. 1: Ch. 2.1.2.1.7, 2.1.2.1.8 Vol. 2: Ch. 1.3.	
6	Mon. 6.2	14:15-16:00	Teams	Lecture 9	Guest lecture - SSAB Vacuum decassing and industrial practices	TA	Lecture notes	
	Wed. 8.2	12:15-14:00	Teams	Lecture 10	Guest lecture AOD-converter	V-VV	Lecture notes	
7	Mon. 13.2	14:15-16:00	Ke3	Lecture 11	Liquid to Solid system (casting)	AJ	Seetharaman: Vol. 3A: Ch. 1.8, 1.9	
	Wed. 15.2	12:15-14:00			No lecture			
8	Mon. 20.2	09:00-13:00	Aluminium	Alternative Course exam				
9	Mon. 27.2	12:15-14:00			No lecture			
	Wed 1.3	12:15-14:00			No lecture			
10	Tue. 7.3	08:30-10:00	Ke5		Presentation of Experimental Results	Students		
Course Exam: Mon. 17.4.2023, 9:00-13:00, Ke1								