			Wednesday	Friday
1	**January**		**18**	**20**
		Introduction to shared memory model, transition systems		
	Topics		Intro	Shared Memory
	Slides		00	01
	Exercise Booklet			01
	Assignments			
2		**23**	**25**	**27**
		Introduction to shared memory model, transition systems		
	Topics	Shared Memory	Transition Systems	Critical Section and Mutual Exclusion
	Slides			02
	Exercise Booklet			02
	Assignments			HW1 (threads)
3	**February**	**30**	**1**	**3**
		Critical Section and Mutual Exclusion		
	Topics	Critical Section and Mutual Exclusion	Critical Section and Mutual Exclusion	Critical Section and Mutual Exclusion
	Slides			
	Exercise Booklet			
	Assignments			HW1 due / HW2 (semaphores)
4		**6**	**8**	**10**
		Semaphores		
	Topics	Atomic actions	Semaphores	Semaphores
	Slides	03	04	
	Exercise Bookle	03	04	
	Assignments			
5		**13**	**15**	**17**
		Patterns with Semaphors: Readers/Writers, Unbounded buffers, Producers/Consumers		
	Topics	Producers/Consumers	Readers/Writers	Semaphores: bar example
	Slides	05		
	Exercise Bookle	05		
	Assignments			HW2 due/ HW3 (monitors)
6		**President's Day 20**	**22**	**24**
		Monitors		
	Topics		Monitors	Monitors
	Slides		06	
	Exercise Booklet		06	
	Assignments			
7	**March**	**27**	**1**	**3**
		Monitors		
	Topics	Monitors: An example	Monitors	onitors: signal and continue and monitors in Java
	Slides			
	Exercise Booklet			
	Assignments			HW3 due
8		**6**	**8**	**10**
		Review and Midterm		
	Topics	Monitors: An example	Review	Midterm
	Slides			
	Exercise Booklet			
	Assignments			
9		**13**	**15**	**17**
		Message Passing		
	Topics	Erlang: Sequential Fragment	Erlang: Sequential Fragment	Erlang: Sequential Fragment - Examples
	Slides	07		
	Exercise Bookle	07		
	Assignments			HW4 (sequetial erlang)
10		**20**	**22**	**24**
		Erlang		
	Topics	Exercises in Class	Quiz	Typing in Erlang
	Slides			
	Exercise Booklet			
	Assignments			HW4 due/ HW5 (concurrent erlang)
11	**April**	**27**	**29**	**31**
		Erlang		
	Topics	Erlang: Concurrency	Erlang: Concurrency	Erlang: Concurrency - Examples
	Slides	08		

	Exercise Bookle	08		
	Assignments			
12		**3**	**5**	**Good Friday 7**
		Erlang		
	Topics	Erlang: Client-Server	Erlang: Concurrent Patterns	
	Slides			
	Exercise Booklet			
	Assignments			
13		**10**	**12**	**14**
		Erlang		
	Topics	Model Checking	Promela	Promela
	Slides			
	Exercises			
	Assignments			
14		**17**	**19**	**21**
		Model Checking		
	Topics	Promela	MC with properties stated within model	MC with properties stated within model
	Slides			
	Exercises			
	Assignments			
15		**24**	**26**	**28**
		Model Checking		
	Topics	Foundations of Model Checking	Foundations of Model Checking	Foundations of Model Checking
	Slides			
	Exercises			
	Assignments			HW6
16	**May**	**1**	**3**	**Thursday 4 on Friday schedule**
	Topics	Review and Endterm		
	Slides	Review	Endterm	
		Final exam period 5-16 May		