FCS reading list			
Week	**Topic**	**Book**	**Pages**
1	Logic	Rosen, Discrete Mathematics 7ed	Chapter 1.1-1.2, pp.1-22.
2			Chapter 1.3–1.4, pp.22–52.
3	Proof techniques		
4			Chapter 1.7, pp.76–83.
5	Basic combinatorial principles		
6		Sipser, M. Introduction to the theory of computation 3ed	Chapters 1.1 and 1.2, pp.31–63
7	Automata theory		
8		Sipser, M. Introduction to the theory of computation 3ed	Chapters 1.1 and 1.2, pp.31–63
9	Regular languages		Chapter 1.3, pp.63–76
10			Chapter 1.4, pp.77–82.
11	Context free languages		
12		Hopcroft, Introduction to automata theory, languages and computation 3ed	Chapter 5, pp.171–224.
13	Turing Machine	Forbes, M. A theoretical introduction to Turing Machine.	Chapter 1, pp.4-21.
14		Kozen, D.C. Automata and Computability	Lecture 32, pp.235–238.
15	Algorithms 1	Rosen, Discrete Mathematics 7ed	Chapter 3.1, pp.191–204
16			
17	Algorithms 2		Chapter 5.1, pp.307–327.
18			
19	Complexity theory		
20		Chang, S. Data structures and algorithms.	Chapters 8 and 9, pp.161–200.