SWE 760 - Software Analysis and Design of Real-Time Systems Fall 2016 Approximate Course Schedule

Week #	Date	Торіс	Related Readings	Assignments
1	August 30	Introduction to Real-Time Embedded Systems	Chapter 1	
2	September 6	Structural modeling for Real-Time Systems	Chapter 5	
3	September 13	Use Case Modeling/ State Machines for RTE systems	Chapter 6,7	
4	September 20	Object Structuring / Dynamic Interaction Modeling for RTE systems	Chapter 8, 9	
5	September 27	Real-Time Software Architectural Design	Chapter 10	Due date for Project Phase 1
6	October 4	Software Architectural Patterns for RTE systems	Chapter 11	
7	October 11	Mid-semester break		
8	October 18	Distributed Component- based Software Design	Chapter 12	Due date for Project Phase 2
9	October 25	Concurrent Real-Time Software Task Design	Chapter 13	
10	November 1	Detailed Real-Time Software Design	Chapter 14	
11	November 8	Performance Analysis of RT Software Designs	Chapter 17, 18	
12	November 15	Term Project Tutorials and Term paper review		
13	November 22	Work on term papers and project	Research Papers	
14	November 29	Project presentations		Due date for Project Phase 3
15	December 6	System and Software Quality Attributes	Chapter 16	
16	December 13	Paper presentations		Due date for term papers

References:

H. Gomaa, Real-Time Software Design for Embedded Systems, Cambridge University Press, 2016

HG 8/29/16