Structured Systems Analysis and Design

COURSE SCHEDULE

Week#	Lecture topics	Notes
1	Introduction to Syllabus / Guest lecture: quantum computing in the industry	
2	Topic 1 System Design and SDLC - Systems analyst - SDLC - Project initiation	
3	Topic 1 System Design and SDLC - Project initiation - Systems requests - Feasibility	
4	Topic 2 Planning - Project selection - Creating a project plan - Project management - Gantt chart - Software Development Model	
5	Test 1	
6	Topic 3 Analysis - Requirements engineering - Functional & non-functional - Requirements elicitation - Requirements analysis	Due: CheckPoint 1
7	Topic 4 - Use case analysis - UML	
8	Topic 4 (continued) - Process modeling - Data flow diagrams Topic 5 - Data modeling - Entity relationship diagrams	

9	Test 2	
10	Topic 6 - Architecture design - Functional & non-functional	Due: CheckPoint 2
11	Topic 7 - Hardware & Software - User Interface Design	
12	**Topic 8 System of Systems** - Student-led seminar (0.5% bonus) - Research Topics - Quantum Information System	Flipped classroom Student-led seminar
13	Test 3	
14	Project Presentation	