Book Reading Plan (Fall 2019)

Course book:
"Computer Organization and Design: The Hardware/Software Interface" by David A. Patterson and John L. Hennessy (5th Edition)

Note: The plan might change for the Fall 2020 semester!

Week#	Topic	Assignments
Week 1	Introduction to Computer Architecture	RA chapter 1, Q1
Week 2	Performance Metrics of a System	RA chapter 1, Q2
Week 3	Number Systems	RA chapter 2, Q3
Week 4	Hardware Building Blocks (Combinational Logic)	RA Appendix B, Q4
Week 5	Hardware Building Blocks (Sequential Logic)	RA Appendix B, Q5
Week 6	*Instructions: Language of the Computer (Part I)*	RA chapter 2, Q6
Week 7	*Instructions: Language of the Computer (Part II)*	RA chapter 2, Q7
Week 8	Arithmetic for Computers	RA chapter 3, Q8
Week 9	Datapath, Controls and Pipelining	RA chapter 3, Q9
Week 10	Hazards: structural, data, control	RA chapter 4, Q10
Week 11	Memory Hierarchy Design	RA chapter 4, Q11
Week 12	Vulnerabilities in modern computers	RA chapter 4, Q12
Week 13	Modern Processors and GPU	RA chapter 4, Q13
Week 14	Revision	RA chapter 5, Q14