

Week	Date	Topic	Min Reading	Lab Exercises / Project
1	10 Sept	Introduction The Internet	K&R 1.1-1.4	Lab 1: Introduction and Hands-on
2	17 Sept	The Application Layer Web APIs	K&R 2.1-2.2, 2.5, 2.7	Lab 2: Building your own RESTful API
3	24 Sept	The Transport Layer The Transmission Control Protocol	K&R 3.1-3.5	Lab 3: TCP and UDP congestion
4	1 Oct	The Network Layer Routing Protocols and IP	K&R 4.1-4.6	Lab 4: BGP Routing
5	8 Oct	The Link Layer Encapsulation	K&R 5.1-5.2, 5.4,5.7	Lab 5: Designing and implementing a small network
6	16 Oct	Review		
6	17 Oct	Midterm (Wed 17/10, 2:30-4pm)		No lab
7	22 Oct	Recess		Recess
8	29 Oct	The Physical Layer The Internet of Things & IPV6		Lab 6: Project
9	5 Nov	Wireless Networks Wireless Networks II	K&R 6.1-6.3	Lab 7: Project
10	12 Nov	Mesh Networks Industrial Control Networks		Lab 8: Project
11	19 Nov	Network Performance & CDNs Quality of Service	K&R 7.2 & 7.5	Lab 9: MQTT
12	26 Nov	Data Centre Networks & SDNs The Cloud		Lab 10: SDN Basics
13	3 Dec	Enterprise Networks & Network Topology Design VPNs, Anonymity & Overlay Networks		
14	11 Dec	Review		
14	13 Dec	Final exam, Thurs 13 <sup>th</sup> Dec 3–11am		