Schedule first half of Scalable Systems and Data (COMP97016 / COMP97017)

Date	Topic	Videos (to be watched before)	Optional reading
13/10/2020	Intro	-	-
16/10/2020	DB Storage & Main Memory Indexing	https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=bde8f22c-9520-4ddd-b39e-ac5300b598a1 https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=2138eef1-a99d-4076-842e-ac5300b6d1a7	
20/10/2020	SSD & Main Memory DB	https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=b35eb87f-d6da-4281-9a35-ac5300b869a5 https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=e5f59ca1-89d3-4f4b-9a27-ac5300b5f938	http://sites.computer.org/debull/A10dec/athanassoulis.pdf https://dl.acm.org/doi/10.1145/1376616.1376713
23/10/2020	Graph Databases	https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=ec544060-253a-4e7a-a170-ac5300b598ce	
27/10/2020	XML & Document Stores	https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=603b3713-ae63-46d2-b054-ac5300b911b6 https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=f6600666-9160-4103-8888-ac5300b77925	https://dl.acm.org/doi/abs/10.1145/1142473.1142527
30/10/2020	Multicores	https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=c2734585-bcfb-4388-ac1e-ac5300b7faae	https://www.morganclaypool.com/doi/10.2200/S00774ED1V01Y201704DTM045
3/11/2020	Cold Storage & DNA Storage	https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=0fa51012-1ecf-4100-a09a-ac5300b59871 https://imperial.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=28e5d5f9-5a7a-45b8-a71e-ac5300b5991c	https://www.microsoft.com/en-us/research/publication/pelican-a-building-block-for-exascale-cold-data-storage/ http://cidrdb.org/cidr2019/papers/p98-appuswamy-cidr19.pdf https://www.sciencemag.org/news/2017/03/dna-could-store-all-worlds-data-one-room