		Advanced Deep Learning and Reinforcement Learning (COMP0089, former COMPGI22)				
		Deep Learning Path Outline			Reinforcement Learning Path Outline	
Date Tuesday 2-4pm	Week	Title	Lecturer	Date Thursday 9-11pm	Topic	Lecturer
8/1/19	1	DL1: Introduction to Machine Learning based AI	Thore Graepel	10/1/19	RL1: Intro to reinforcement learning	Hado van Hasselt
15/1/19	2	DL2: Neural Networks Foundations	Simon Osindero	17/1/19	RL2: Exploration and control	Hado van Hasselt
22/1/19	3	DL3: Convolutional Neural Networks for Image Recognition	Karen Simonyan	24/1/19	RL3: MDPs and Dynamic Programming	Matteo Hessel
29/1/19	4	DL5: Beyond image recognition, end-to-end learning, embeddings	Raia Hadsell	31/01/19	RL4: Model-Free Prediction	Hado van Hasselt
05/02/19	5	DL4: Sequences	Oriol Vinyals	07/02/19	RL5: Function approximation in RL	Hado van Hasselt
		Reading Week			Reading Week	
19/02/19	6	DL6: Optimization for Machine Learning	James Martens	21/02/19	RL6: Policy Gradient Methods	Hado van Hasselt
26/02/19	7	DL7: Deep Learning for Natural Language Processing	TBD	28/02/19	RL7: Planning and models	Matteo Hessel
05/03/19	8	DL8: Attention and Memory in Deep Learning	Alex Graves	07/03/19	RL8: Building full agents	Matteo Hessel
12/03/19	9	DL9: TBC Title	Andriy Minh	14/03/19	RL9: Guest talk	Vlad Mnih (TBC)
19/03/19	10	DL10: Unsupervised Lerning and Generative Models	Shakir Mohamed	21/03/19	RL10: Guest talk	David Silver (TBC)