BrienHoldenVisionInstitute

VISUAL PSYCHOPHYSICS AND NEUROPHYSIOLOGY

RECOMMENDED DELIVERY TIME OF LECTURES

		Lecturing time (No. of hours)
1.	Aberrometry	5
2.	Power vectors	
3.	Approaches to vision science	6
4.	Absolute sensitivity of the human eye	
5.	Radiometry, photometry and lambda function	
6.	Lambertian surface trolands	6
7.	Introduction to duplex retina	
8.	Photochromic interval purkinje shift and dark adaptation	
9.	Light adaptation, Weber's law and spatial summation	
10.	Temporal summation, Stiles-Crawford effect	6
11.	Introduction to spatial vision	
12.	Fourier transformation	
13.	Modulation transfer function	
14.	Spatial filtering contrast sensitivity	6
15.	Contrast sensitivity	
16.	Contrast sensitivity, low frequency	
17.	Visual acuity	3
18.	Temporal vision	
19.	Temporal vision phenomena	2
20.	Illusions masking motion perception	
21.	Introduction to colour vision	3
22.	Trichromacy, Munsell system and normal colour vision	

23.	Colour opponent theory and colour anomalies	
24.	Anomalous colour perception	4
25.	Acquired colour anomalies	
26.	Testing colour vision	
27.	Electrodiagnostic testing of the visual system	2.5
28.	Retinal electrophysiology	
29.	Parvo and magnocellular parallel pathways	3.5
30.	Frequency doubling perimetry	
31.	Measuring psychophysical thresholds	4
32.	The theory of signal detection	
33.	ROC curves, magnitude of sensation	5