NO Date	Lecture	Assignment/Code link	Video to watch at Video to watch I	Readings to be	c Readings to be completed before class									
1	1-Aug-25 Introduction and installing	stuff				resources: http	s://github.com/rdgao/cogs118c							
2	5-Aug-25 Practical session: Basics of time and time-freq analyses and Init Dr. Vishnu Sreek Dr. Vishnu Sreek													
3	8-Aug-25 Time-Frequency Analysis	Details	Dr. Vishnu Sree	ch 5,6										
4	12-Aug-25 EEG design, TF analysis exercises	- in class												
	15-Aug-25 HOLIDAY													
	19-Aug-25 Preprocessing and EEG ar	tifacts		ch 7,8										
	22-Aug-25 Preprocessing and EEG ar	tifacts practical session - Aruneek		ch 9	VS not on campus									
	26-Aug-25 Visit EEG lab at UoH or IITH, email	26-Aug-25 Visit EEG lab at UoH or IITH, email Ramesh Mishra/Neeraj Kumar in advance (arrange)			lu VS not on campus									
QUIZ1	29-Aug-25 QUIZ 1													
	2-Sep-25 Project meeting with TA: selection	f topics, datasets, and team members			VS not on campus									
	5-Sep-25 HOLIDAY													
	9-Sep-25 Time domain EEG and an	9-Sep-25 Time domain EEG and analysis practical session		take-home assignment										
	12-Sep-25 Dot product, convolution, DFT, FFT, convolution theorem			ch 10, 11										
	16-Sep-25 Morlet wavelets, extracting	g power and phase		ch 12, 13										
	19-Sep-25 FFT and morlet wavelet p	actical session												
IIDSEM	23-Sep-25 MIDSEM													
	26-Sep-25													
	30-Sep-25 Bandpass & Hilbert Transf	orm w/ in-class exercises		ch 14										
		3-Oct-25 design IIR and FIR filters in MATLAB - practical session												
	7-Oct-25													
		10-Oct-25 short-time fft and multitapers 14-Oct-25 T-F power and baseline normalization w/ in-class exercises.		ch 15, 16										
				e ch 18	papers like this have open data and code https://www.nature.com/articles/s42003-021-02426-1#data-availability									
	17-Oct-25 ITPC w/ in-class exercises		aruneek please ç ch 19											
	21-Oct-25 HOLIDAY													
	24-Oct-25 online project meet w/ ta													
QUIZ 2	28-Oct-25 QUIZ 2													
	31-Oct-25 Differences between pow, itpc, etc and interpretational issues		es	ch 20, 21										
	4-Nov-25 Spatial filters													
	7-Nov-25 PCA and ICA			ch 22										
	11-Nov-25 Connectivity overview			ch 23										
	14-Nov-25 connectivity details													
	18-Nov-25 stats overview and details													
		practical session: connectivity												
	practical session: stats													
	project presentations													