

		23 th October 2017		24 th October 2017	
Time		Topic	Lecturer	Topic	Lecturer
08:00	08:30	Registration			
08:30	10:00	A brief introduction to EEG, ERP and QEEG	Dr. Khosrowabadi	MEG data analysis	Dr. Mohseni
10:00	10:30	Break			
10:30	10:45	EEG data recording during a cognitive task (Practical)	Dr. Khosrowabadi Dr. Noorzadeh Dr. Karimi	Break	
10:45	11:15			General advanced topics	Dr. Khosrowabadi
11:15	11:30			<ul style="list-style-type: none"> • EEG Dynamics & Time-Frequency Analysis • Connectivity Analysis and graph theory 	
11:30	12:30	Working with EEGLAB (Practical) <ul style="list-style-type: none"> • Loading Data into EEGLAB • Channel Locations, Plotting Channel Spectra and Maps 		Working with SIFT and brain connectivity toolbox (Practical)	Dr. Khosrowabadi
12:30	13:00	Lunch		Lunch	
13:00	14:00	Lunch		Lunch	
14:00	15:30	Prerequisite for data processing <ul style="list-style-type: none"> • Fourier Transform • Filters • De-noising and filtration • Independent Component Analysis (ICA) 	Dr. Karimi	Source localization and dipole modelling	Dr. Noorzadeh
15:30	16:00	Break		Break	
16:00	18:00	Working with EEGLAB (Practical) <ul style="list-style-type: none"> • Extracting Data Epochs • Decomposing Data Using ICA and Working with ICA Components Artifact detection and rejection using ICA	Dr. Noorzadeh Dr. Karimi	Working with EEGLAB (Practical) <ul style="list-style-type: none"> • Headmap Warping • Source localization and dipole fitting with DIPFIT 	Dr. Noorzadeh