

- **NPTEL Online Courses (During Ph.D., Course Instructor: Prof. Hardik J. Pandya)**

1. Introductory Neuroscience & Neuro-Instrumentation (Co-instructor: Dr. Mahesh Jayachandra)

Topics taught: [Basics of BCI Experimentation](#), [Microstructures of Neural Engineering](#), [EEGLAB/ERPLAB](#), [Epilepsy: Introduction, and Seizure Classification](#).

2. Neural Science for Engineers Instrumentation (Co-instructor: Dr. Vikas V)

Topics taught: [Introduction and Applications of Event-Related Potentials](#), [ERP Extraction Demonstration](#).

3. Mathematical Aspects of Biomedical Electronic System Design Instrumentation (Co-instructor: Prof. Chandramani Singh)

Topics taught: [Basics of Signal Types](#), [Basics of Signal Acquisition](#), and [Nyquist Rate](#)

4. Advanced Neural Science for Engineers

Topics taught: [Lithography Basics](#), [Fourier Optics](#), [Role of Microfabrication in Neural Engineering](#), [Basics of EEG/ERP Experiment Design](#), [EEG/ERP Applications](#)