EEE.9-3.8 Biomedical Technology

Course contents: * Current technologies, sectors and applications of biomedical technology. * Modalities used in biomedical technology, * Theory of 1D biomedical modalities (EEG, ECG etc.). * Theory of 2D and 3D biomedical modalities (tomography, imaging methods). * Comparisons of biomedical imaging systems. * Effects of using, and maintaining biomedical systems on humans. * E-Health and m-Health applications. * Bio-signal processing. * Digital biomedical image processing. Image alignment. * Medical decisions and diagnosis assistance using biomedical systems.