



Course Title : MRI Basics

Duration : 5 Days

Target Group: MR Technologist & Radiologist

Pre-requisites: General Knowledge, Anatomy, Pathology

1st Day :

- 1- Basics of MRI
- 2- Spin Echo Sequences
- 3- Spin Echo Sequence Weighting
- 4- K-Space
- 5- Tissues Signal Behavior in MR
- 6- MR System components

2nd Day:

- 1- Turbo Spin Echo
- 2- Turbo Spin Echo Restore
- 3- Haste
- 4- Inversion Recovery Sequences
- 5- Gradients Echo Sequences
- 6- Fat Saturations Techniques
- 7- T1, T2, T2* Mapping
- 8- MR Safety

3rd Day:

- 1- Image Quality Parameters
- 2- Spatial Resolution
- 3- Contrast
- 4- Signal To Noise Ratio
- 5- Acquisition Time
- 6- Diffusion

4th Day:

- 1- Metal Artifact
- 2- Movement Artifact
- 3- Aliasing Artifact
- 4- Chemical Shift Artifact
- 5- Magnetic Susceptibility Artifacts
- 6- Truncation Artifacts
- 7- Q/A Artifacts
- 8- Perfusion Dynamic Susceptibility Contrast (DSC)

5th Day:

- 1- MR Angiography
- 2- Time Of Flight, Phase Contrast
- 3- Dynamic Angio
- 4- Angio Non Contrast Techniques