

Course Outcome:

1. Distinguish different types of signals, can acquire a brief idea about analog and digital signals and their conversion techniques, criterion for stability of a system.
2. To evaluate different types of mathematical operation on signals.
3. Learn a good idea about Z-transform and importance of analog to digital domain transformation technique.
4. Appropriately distinguish between Fourier series and Fourier transformation, properly compute it,
5. Know different types of filters, distinguish between analog and digital filter, methods to transform from one type to another types of filter.
6. Acquire a clear idea of different filter designing techniques and their realization methods.

Learning Resources**Text books:**

1. Digital Signal Processing – Principles, Algorithms and Applications, J.G.Proakis&D.G.Manolakis, Pearson Ed.
2. Digital Signal processing – A Computer Based Approach, S.K.Mitra, TMH Publishing Co.
3. Digital Signal Processing Signals, Systems and Filters, A. Antoniou, TMH Publishing Co.

Reference books:

1. Digital Signal Processing, A. NagoorKani, TMH Education
2. Digital Signal Processing, P. Rameshbabu, Scitech Publications (India).
3. Digital Signal Processing, S.Salivahanan, A.Vallabraj& C. Gnanapriya, TMH Publishing Co.