Ivansform And Partial Difforential 06/06/16 Unit - I Z-Transforms and Difference Equations I - transforms - Elementary properties - Inverse Z-transforms - Convolution theorem - Fermation of difference equations - solution of difference equations using Z- transform. Chit-1 Fourier Transforms Fourier integral theorem (without proof) - Fourier transform pair - Sine and wire transforms - proporties -Transforms of simple functions - Completion theorem - Parseval's identity Unit-I Foucier Socies Distichlet's conditions - General formier socies - add and even functions Holf range sine socies - Half range

cosine socies - Parseval's identity-Harimonic analysis. Languages linear equal Unit - IV Partial Differential equation Formation of PDE - Solution of standand types of finst order PDE-Lagrange's linear equation - Homogonean Lineau PDE of several and higher order with constant co.eff Unit- x
Application of PDE Solution of one dimensional wave equation to Deque heat conduction - steady state solution of 80 of heat conduction. Fowaier sources - solubions in Capitesian Co-ordinates.