Unit I: Data collection, sampling and estimation

Unit II: Fitting of data and inferential statistics
Hypothesis testing -Fitting of distribution to data – Binomial – Poisson – uniform – exponential –Normal distributions — one- way, two-way- analysis of variance – Multiple range test for one way ANOVA for grouping of means – Bayesian belief networks.

Unit III: Dimensionality Reduction Methods and supervised learning methods

Unit IV: Markov model and Hidden Markov model

Unit V: Clustering and regression based classification

Text Book/References: