UNIT - 6

Non - separable multidimensional wavelets, wavelet packets. Wavelets Transform and Data Compression: Introduction, transform coding, DTWT for image compression (i) Image compression using DTWT and run-length encoding.

UNIT - 7

(i) Embedded tree image coding (ii) compression with JPEG audio compression (iii) Audio masking, (iv) Wavelet based audio coding.

UNIT - 8

CONSTRUCTION OF SIMPLE WAVELETS: Construction of simple wavelets like Harr and DB1. Other Applications of Wavelet Transforms: Introduction, wavelet de-noising, speckle removal, edge detection and object isolation, Image fusions, Object detection by wavelet transforms of projections.

TEXT BOOK:
1. **Wavelet transforms- Introduction to theory and applications**, Raghuveer M.Rao and Ajit S. Bapardikar, Person Education, 2000.

REFERENCE BOOKS:
1. **Wavelet transforms**, Prasad and Iyengar, John Wiley India Pvt. Ltd, 2007.
2. **Wave-let and filter banks**, Gilbert Strang and Nguyen Wellesley Cambridge press, 1996
3. **Insight into WAVELETS from theory to practice**, K.P. Soman and K.L. Ramchandran, Eastern Economy Edition, 2008

MODELING AND SIMULATION OF DATA NETWORKS

Subject Code	: **10EC766**	IA Marks	: 25
No. of Lecture Hrs/Week	: 04	Exam Hours	: 03
Total no. of Lecture Hrs.	: 52	Exam Marks	: 100

UNIT – 1&2

DELAY MODELS IN DATA NETWORKS: Queuing Models, M/M/1, M/M/m, M/M/∞, M/M/m/m and other Markov System, M/G/1 System, Networks of Transmission Lines, Time Reversibility, Networks of Queues.

$D.V.$