



Course wise Teaching Plan for Session : Summer 2019

Course : INFORMATION THEORY AND CODING TECHNIQUE Faculty : rupali.patil@raisoni.net - RUPALI BAPURAO PATIL

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Write a program for determination of various entropies and mutual information of a given channel. Test various types of channel such as a) Noise free channel b) Binary symmetric channel . Compare channel capacity of above channels.	06/12/2018	BECP308A	B
1	2	Write a program for generation and evaluation of variable length source coding Shannon – Fano coding and decoding	13/12/2018	BECP308A	B
2	3	Write a program for generation and evaluation of variable length source coding Huffman Coding and decoding or Lempel Ziv Coding and decoding	20/12/2018	BECP308A	B
2	4	Write a Program for coding & decoding of Linear block codes.	27/12/2018	BECP308A	B
3	5	Write a Program for coding & decoding of Cyclic codes.	03/01/2019	BECP308A	B
5	6	Write a program for encoding of convolutional codes using shift register	17/01/2019	BECP308A	B
5	7	Write a program for coding and decoding of convolutional codes	31/01/2019	BECP308A	B
4	8	Write a program for coding and decoding of BCH or RS codes.	07/02/2019	BECP308A	B
1	9	Implementation of any compression algorithm for either text or audio or image data.	14/02/2019	BECP308A	B
1	10	Include any one of the CASE STUDY as given in the syllabus	28/02/2019	BECP308A	B