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SDR Design for HD Video Transmission

Industry Mentor: AEE Naveen Reddy, Executive Engineer, MCEME
Faculty Mentor: Dr. Rahul Singhal, Assistant Professor, BITS Pilani

OBJECTIVE

1.   To design a transceiver using GNU Radio
2.   To realize it using SDR
3.   To select a power amplifier to improve it's range.

METHODOLOGY

The work will be split in such a way that progress will be made on both the channel coding as well as the system modelling fronts simultaneously. Later, the hardware aspects will be worked on in parallel with the incorporation of the channel coding.

OTHER GROUP MEMBERS

Name: Aditya Soni

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MY CONTRIBUTION

●   Design and simulation of Tx and Rx using GNU Radio
●   Incorporation of the channel coding designed by the team
●   Hardware realization of the design, and selection of a suitable power amplifier