Study of Frequency Shift Keying (FSK) digital modulation technique and implementation on FPGA

<u>Abstract</u>

This project involves study, literature survey of Frequency Shift Keying (FSK) digital modulation technique, Spartan7 FPGA basics (such as I/Os, LUTs - resources), understanding of FPGA programming and design flow. The project also involves basic VHDL programming, test bench simulation and prototype implementation, testing on hardware of FPGA.

Academic Project Requirements:

1) Required No. of student(s) for academic project: 2

2) Name of course with branch/discipline: <u>B.E./B.Tech.</u> <u>Electronics and Instrumentation</u> <u>Engineering</u>

3) Academic Project duration:

(a) Total academic project duration: <u>8</u> Weeks
(b) Student's presence at IPR for academic project work: 3 Full working Days per week

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