

Intern Requirement

Preferred Discipline	<ul style="list-style-type: none">• Electrical Engineering
Prerequisites/ Skills Required:	<ul style="list-style-type: none">• Experience in C/C++ programming• Knowledge on digital communication systems• Good analytical skills
No. of students required	1

Project Details

Title	Channel Coding Techniques for Protecting Data Transmission
Overview/Background	<ul style="list-style-type: none">• During transmission of data, it is common for signals to undergo disruption as it propagates through the environment. In order to ensure that the recipient can successfully recover the data, a few techniques can be deployed• One such way is the implementation of channel coding, where additional information is added to the data to be sent. This information is generated based on the original data and can be used for recovery of any corrupted data at the receiving end
Scope	<ul style="list-style-type: none">• Digital Communications, C/C++ programming
Aims/Objectives/Deliverables	<ul style="list-style-type: none">• Perform research and development in the area of channel coding and communication protocols• Understand the design principles behind Forward Error Correction techniques and implementing them into software modules with appropriate application interfaces for integration into a larger communication system• Acquire a good knowledge on communication protocols as well as hands-on experience in development using C/C++, upon project completion
Project Duration	6 months