Sample BTP Title

A thesis submitted in partial fulfillment of
the requirements for the degree of

Bachelor of Technology

by

Author
(Roll No. 12xxxxxx)

Under the guidance of
Guide

DEPARTMENT OF ELECTRONICS & ELECTRICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI
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CERTIFICATE

This is to certify that the work contained in this thesis entitled

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is the work of

Author
(Roll No. 12xxxxxx)

for the award of the degree of Bachelor of Technology, carried out in the Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati under my supervision and that it has not been submitted elsewhere for a degree.

_____

Guide

Date: _____

Place: _____

DECLARATION

The work contained in this thesis is our own work under the supervision of the guides. We have read and understood the "B. Tech./B. Des. Ordinances and Regulations" of IIT Guwahati and the "FAQ Document on Academic Malpractice and Plagiarism" of EEE Department of IIT Guwahati. To the Best of our knowledge, this thesis is an honest representation of our work.

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Chapter 1

Introduction

The ever increasing number of wireless users, on one hand, and the realization of insufficient spectral resources, on the other, is a major issue researchers around the world are trying to solve. It has been found that the spectrum shortage crisis is due to inefficient spectrum utilization rather than physical scarcity of the resource. In November 2002, FCC published a report [1] in-order to improve spectrum utilization in the United States. One of the most significant findings of this report is - "*If you look at the entire RF frequency up to* 100*GHz, and take a snapshot at any given time, you will see that only 5-10*$\%$ *of it is being used. So there is* 90 *GHz bandwidth available*". Frequency agile radios (cognitive radios) was a revolutionary solution put forth to solve this looming crisis [2].

Bibliography

[1] "Spectrum Policy Task Force Report," *Federal Commun. Commission, Tech. Rep.*, Nov. 2002. Available at http://hraunfoss.fcc.gov/edocs_publish/attachmatch/DOC-228542A1.pdf

[2] S. Haykin, "Cognitive Radio: Brain Empowered Wireless Communications," *IEEE Journal on Selected Areas in Communication*, Vol. 23, No. 2, pp. 201-220, Feb. 2005.