TABLE OF CONTENT

APPROVAL PAGE i

SELF DECLARATION AGAINST PLAGIARISM ii

ABSTRACK iii

PREFACE iv

ACKNOWLEDGEMENTS v

TABLE OF CONTENT vi

LIST OF FIGURES viii

LIST OF TABLES ix

LIST OF ABBREVIATIONS x

CHAPTER I INTRODUCTION 1

1.1 Background 1

1.2 Objective 2

1.3 Scope Of Problem 3

1.4 Scope Of Work 3

1.5 Research Methods 3

1.6 Hypothesis 4

1.7 Research Methodology 4

CHAPTER II THEORETICAL FOUNDATION 7

2.1 5G (Five Generations) 7

2.2 Open RANs 9

2.3 5G Capabilities and Requirements 14

CHAPTER III SYSTEM DESIGN MODEL AND SCENARIO 31

3.1 Supporting and Regulatory Data 32

3.2 Technical Analysis 36

3.3 Design calculation Techno -Economy 47

CHAPTER IV DATA PRESENTATION AND ANALYSIS 50

4.1 Analysis Results Techno -Economics and Revenue Analysis 50

4.2 Business Feasibility Analysis 54

4.3 Business Sensitivity Analysis 56

4.4 Technical Analysis Results 57

CHAPTER V CONCLUSIONS AND RECOMMENDATIONS 66

5.1 Conclusion 66

5.2 Recommendations 66
REFERENCES 68