**// All font: Times New Roman //**

**THESIS TITLE (Font Size- 18, Bold, Uppercase)**

A project report submitted to the Department of Computer Science and Engineering

in partial fulfillment of the requirements for the degree of Bachelor of Science

(Honors) in Computer Science and Engineering (Font-12, Middle alignment)

 By

|  |  |  |
| --- | --- | --- |
| **Name** | **Exam Roll** | **Registration No.** |
| xxxxxx | 520 | G.CE-2017/18 |
| xxxxxx | 520 | G.CE-2017/18 |

**Supervised by (Font-12, Bold)**

Name of Teacher

Designation

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GONO BISHWABIDYALAY

OCTOBER, 2021

**DECLARATION**

The project work entitled “**THESIS TITLE**” has been carried out in the Department of Computer Science and Engineering, Gono Bishwabidyalay is original and conforms the regulations of this University.

I understand the University’s policy on plagiarism and declare that no part of this thesis has been copied from other sources or been previously submitted elsewhere for the award of any degree or diploma.

 (Candidate)

**APPROVAL OF ACCEPTANCE**

This project report written by **….**  (ID: CSE2018…..) entitled **……..** is submitted to the PMSCS Program, Department of Computer Science and Engineering, Jahangirnagar University in partial fulfillment of the requirements for the degree of Master of Science in Computer Science. The project is done under the supervision of **…….,** Department of Computer Science and Engineering, Jahangirnagar University.

We have examined this report and recommend its acceptance.

|  |  |
| --- | --- |
| ……………………………………………..NameCo-SupervisorDesignationDept. of Computer Science & EngineeringGono BishwabidyalaySavar, Dhaka, Bangladesh. | ……………………………………………..NameSupervisorDesignationDept. of Computer Science & EngineeringGono BishwabidyalaySavar, Dhaka, Bangladesh. |
| ……………………………………………..Dr. Md. Mahbub AlamExternal ExaminerPSO (Associate Professor) Institute of Computer ScienceBAEC, Dhaka, Bangladesh. | ……………………………………………..Prof. Md. Karam NewazChairmanDept. of Computer Science and EngineeringGono BishwabidyalaySavar, Dhaka, Bangladesh. |

**ACKNOWLEDGEMENT**

Write your acknowledgement here…….

**ABSTRACT**

Write your abstract here………… (Write in one paragraph, Justify, Font-12)

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# **List of Symbols**

|  |  |
| --- | --- |
| ***Symbol*** | ***Description*** |
| $$H$$ | Random MIMO Channel Matrix |
| $$E \{.\}$$ | Expectation |
| $$(.)^{+}$$ | Hermitian Transposition  |
| $$E\left[ trace\left(H^{+}H\right)\right]$$ | Expectation of the trace of complex channel matrix (H+H) |
| $$E\left[trace\left\{\left(H^{+}H\right)^{2}\right\}\right]$$ | Expectation of the trace of complex channel matrix (H+H)2 |
| $$E\left[x^{k}\right]$$ | kth Moment of the MIMO Channel |
| $$\frac{E\_{b}}{N\_{0 min}}$$ | Minimum Normalized Transmit Energy per Information Bit |
| $$\frac{E\_{b}}{ N\_{0}}$$ | Normalized Transmit Energy per Information Bit |
| $$S\_{0}$$ | Wideband Slope |
| $$R\_{c}$$ | Code Rate in bits/s/Hz |
| $$C\left(\frac{E\_{b}}{N\_{o}}\right)$$ | Shannon’s capacity function with respect to Eb/N0 |
| $$ μ$$ | Mean of Gaussian random variable |
| $$ σ$$ | Standard deviation |
| $$ λ$$ | Scale Parameter |
|  **m** | Shape Parameter |
| $$ Γ\left(x\right)$$ | Gamma function |
| $$ γ\_{av}$$ | Ratio of shape and spread parameter |
|  **k** | Constant |

# **List of Algorithms**

 2.1: Algorithm\_Name 11

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**CHAPTER 1 (FONT-18)**

INTRODUCTION (FONT-16)

Write intro here [1]. Write intro here.

* 1. **Testing (Font-14, Bold)**
		1. **Testing (Font-12, Bold)**

Each figure must be referred in literature like ‘fig. 1.1.’. All figures and graph must be in gray scale except some special cases.



**Fig. 1.1** Performance of wireless channel under awgn environment taking service time as a parameter

The figure must be numbered like above with title. The figure should be referred in literature like, ‘the profile of throughput and security level is shown in fig.1.1’. All figures and graph must be in gray scale except some special cases.

TABLE 1.1

Units for Magnetic Properties

|  |  |  |
| --- | --- | --- |
| Symbol | Quantity | Conversion from Gaussian andCGS EMU to SI a |
| Φ | magnetic flux | 1 Mx → 10−8 Wb = 10−8 V·s |
| *B* | magnetic flux density,magnetic induction | 1 G → 10−4 T = 10−4 Wb/m2 |
| *H* | magnetic field strength | 1 Oe → 103/(4π) A/m |
| μr | relative permeability | μ → μr |
| *w, W* | energy density | 1 erg/cm3 → 10−1 J/m3 |
| *N, D* | demagnetizing factor | 1 → 1/(4π) |

Table must have both number and title and must be mentioned in literature. All tables, graphs and figures must be centered.

10 points

12 points

The following Equations:

  (1.1)

All mathematical variables must be in italic, vectors and matrix in bold phase in the literature. Equations must be left aligned but their numbers must touch the right end of the lines. All characters in literature must be in Times New Romans 12 points font and subscripts/superscripts in 10 pints font.

CHAPTER 2

LITERATURE REVIEW

Write review here [1]. Write review here.

* 1. **Testing**
		1. **Testing**

REFERENCES

1. W. K. Chen. *Linear Networks and Systems*. Belmont, CA: Wadsworth, 1993, pp. 123-35.
2. J. E. Bourne. “Synthetic structure of industrial plastics,” in *Plastics*, 2nd ed., vol. 3. J.Peters, Ed. New York: McGraw-Hill, 1964, pp.15-67.
3. G. Pevere. “Infrared Nation.” *The International Journal of Infrared Design*, vol. 33, pp. 56 - 99, Jan. 1979.
4. D. B. Payne and H. G. Gunhold. “Digital sundials and broadband technology,” in *Proc. IOOC-ECOC*, 1986, pp. 557-998.
5. B. Brandli and M. Dick. “Engineering names and concepts,” presented at the 2nd Int.Conf. Engineering Education, Frankfurt, Germany, 1999.

**Guidelines for Project Report**

* Sheet selection: A4
* Margin: Top, Bottom & Right = 1' inch (2.54 cm) & Left margin = 1.3' inches (3.30 cm)
* Chapter Title: 18 Capital & Bold
* Chapter Name: 16 Capital & Bold
* Heading Size: 14 Capital Each Word & Bold
* Sub Heading size: 12 Capital Each Word & Bold
* Sub sub heading size: 12 Lowercase & Bold
* Remaining matter size: 12
* Font Type: Times new roman
* Gap between lines: 1.15
* For Project Report Printing Bond Paper of 80 gsm used.

**Example**

Title

Declaration

Approval

Acknowledgement

Abstract

Table of Content

List of Tables

List of Figures

Abbreviation

**Chapter 1: Introduction**

 - Motivation

 - Objective (1/2 point)

 - Feature (2 to 10 points)

 - Problem Statement

 - Social Impact

 - Report Layout

**Chapter 2: Literature Review / Background Study / Related Works**

 - Download Papers

 - Write Review with citation

 - Authors of [1] had said.......

- at least 20 papers

**Chapter 3: Methodology and Requirement Analysis**

 - All type of diagram related to your project/thesis/development

 - Circuit Diagram, Block Diagram, Flow chart

 - Activity, Class diagram - development project

 - Algorithm

 - Pictorial Explanation of all the requirements

**Chapter 4: Results**

 - all type of analysis of your output

 - output picture

 - graphs, tables

 - how many times it good or bad

 - 100 times run, how many % is ok

 - Feature wise results

**Chapter 5: Conclusion and Future works**

**Reference**

|  |  |
| --- | --- |
| [1] | Kekre, A. and Gawre, S.K., 2017, October. Solar photovoltaic remote monitoring system using IOT. In 2017 International conference on recent innovations in signal processing and embedded systems (RISE) (pp. 619-623). IEEE. |