

# **DUAL-PORT RAM-BASED IMAGE STORAGE**

*A Report submitted in partial fulfillment of the requirement for the award of the*

*Degree of*

**BACHELOR OF TECHNOLOGY**

*In*

**ELECTRONICS AND COMMUNICATION ENGINEERING**

*By*

**B. DEDEEPYA**

**(20JG1A0410)**

**CH. BHARGAVI**

**(20JG1A0419)**

**K. HARIKA**

**(20JG1A0446)**

**M. LAVANYA**

**(20JG1A0459)**



Under the Esteemed guidance of

**B.Lakshmi**

Assistant professor

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN**

**(Affiliated to Jawaharlal Nehru Technological University Kakinada)**

**MADHURAWADA, VISAKHAPATNAM-48**

**(2020-2024)**

**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**ENGINEERING**



**CERTIFICATE**

This is to certify that the report titled “**Dual-ported RAM-based image storage**” is a bonafide work of the following 1V B-Tech-I Semester students in the Department of Electronics and Communication Engineering during the academic year 2023-2024, in partial fulfilment of the requirement for the award of the degree of bachelor of Technology of Jawaharlal Nehru Technological University, Kakinada.

Ch.Bhargavi(20JG1A0419)

**Faculty Coordinator**  
**B.Lakshmi**  
Assistant Professor  
Department of ECE

**Head of the Department**  
**Dr.P.M.K PRASAD**  
Associate Professor  
Department of ECE

**External Examiner**

## ACKNOWLEDGEMENT

We sincerely thank our Faculty Coordinator **B. LAKSHMI**, Asst. Professor, for her guidance and constant encouragement to us at every stage and aspect by including the spirit of understanding and support in carrying out our work at college.

We would like to express sincere thanks to our Head of the Department of Electronics and Communication Engineering **Dr. P.M.K PRASAD** for his valuable suggestions and constant motivation that greatly helped me in completing the work successfully.

We express sincere thanks to our Vice Principal, Professor **Dr. G. Sudheer**, for his encouragement and co-operation in completion of our work.

We wish to express our deep sense of our gratitude to our Principal , Professor **Dr. R.K. Goswami**, for giving us the opportunity to carry out the project work successfully.

Ch.Bhargavi(20JG1A0419)

## **VISION & MISSION**

### **Vision of the Institute**

To emerge as an acclaimed center of learning that provides value-based technical education for the holistic development of students

### **Mission of the Institute**

- Undertake the activities that provide value-based knowledge in Science, Engineering, and Technology
- Provide opportunities for learning through industry-institute interaction on the state-of-the-art technologies
- Create a collaborative environment for research, innovation, and entrepreneurship
- Promote activities that bring in a sense of social responsibility

### **Vision of the Department**

Produce competitive engineers instilled with ethical and social responsibilities to deal with the technological challenges in the field of Electronics & Communication Engineering.

### **Mission of the Department**

- Facilitate a value-based educational environment that provides updated technical knowledge
- Provide opportunities for developing creative, innovative and leadership skills
- Imbue technological and managerial capabilities for a successful career and lifelong learning

## TABLE OF CONTENTS

<b>S.No</b>	<b>Contents</b>	<b>Pg-No</b>
1.	Designer Tool Steps	1-2
2.	Abstract	3
3.	Introduction	4-7
4.	Literature Survey	8
5.	Implementation of Preliminary approach	9-12
6.	Simulation, Results and Parametric Analysis	13-15
7.	Conclusion	16
8.	References	17
9.	Appendix	18-20