BLOCKCHAIN

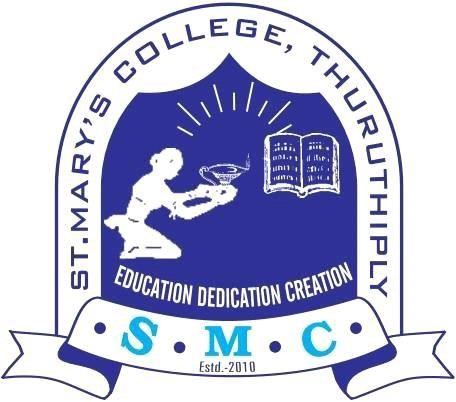
**SEMINAR**

**Submitted by**

**Vaishak rajesh**

**Register No:220021086141**

# BACHELOR OF COMPUTER APPLICATION



# DEPARTMENT OF COMPUTER SCIENCE

ST. MARY’S COLLEGE OF COMMERCE AND MANAGEMENT STUDIES

## THURUTHIPLY

*(AFFILIATED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM)*

ALLAPRA, VALAYANCHIRANGARA, PERUMBAVOOR-683556

**NOVEMBER 2024**

# BLOCKCHAIN

The Seminar report submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the degree of

## BACHELOR OF COMPUTER APPLICATION

**Submitted By**

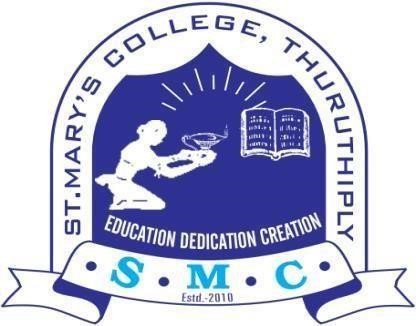
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**(Assistant Professor, Department of Computer Science)**



**DEPARTMENT OF COMPUTER SCIENCE**

ST. MARY’S COLLEGE OF COMMERCE AND MANAGEMENT STUDIES,

THURUTHIPLY

*(AFFILIATED TO MAHATMA GANDHI UNIVERSITY, KOTTAYAM)*

**NOVEMBER 2024**

**DECLARATION**

### DECLARATION

I **Vaishak rajesh,** hereby declare that the project entitled **BLOCKCHAIN** submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF COMPUTER APPLICATION** is a record of work done by me under the supervision and guidance of **Mrs. ANZEENA K.M**, Assistant Professor in Department of Computer Science St. Mary’s College of Commerce and Management Studies, Thuruthiply.

Place: Thuruthiply Signature of the Candidate

#### Date: VAISHAK RAJESH

**CERTIFICATE**

ST. MARY’S COLLEGE OF COMMERCE AND MANAGEMENT STUDIES,

THURUTHIPLY



### CERTIFICATE

This is to certify that the Seminar report, entitled **BLOCKCHAIN** submitted to the Mahatma Gandhi University, Kottayam, in partial fulfilment of the requirement for the award of the degree of **BACHELOR OF COMPUTER APPLICATION** is a record of work done by **VAISHAK RAJESH,**

**Register No:220021086141** under my supervision and guidance.

|  |  |
| --- | --- |
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### Dr. SURESH A

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Submitted for viva-voce examination held on…………………………………….

#### INTERNAL EXAMINER EXTERNAL EXAMINER

**ACKNOWLEDGEMENT**

**ACKNOWLEDGEMENT**

First of all I express our heartfelt thanks to **ALMIGHTY GOD** for blessings of complete my work successfully.

I take immense pleasure in expressing my heartfelt gratitude to **ST. MARY’S CHURCH, THURUTHIPLY** for providing abundant facilities to successfully complete the course.

I record our sincere gratitude to **Dr. SURESH A**, respected Principal, St.

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I wish to express our thanks to **Mrs. JISHA JOHN**, Head of the Department Computer Science, to give a moral support and guidance to complete the work.

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**ABSTRACT**

## 

## ABSTRACT

**BLOCKCHAIN**

This seminar offers a comprehensive exploration of **blockchain technology**, delving into its core principles, architecture, and revolutionary potential across various industries. Designed for both beginners and professionals, the seminar aims to equip attendees with a solid understanding of blockchain’s transformative capabilities and practical applications in the modern digital world.

Throughout the program, participants will embark on a structured learning journey, starting with the fundamental concepts and historical evolution of blockchain. We will examine its defining characteristics, such as decentralization, transparency, and security, and explore the diverse types of blockchain networks, including public, private, and consortium models.

The seminar will further deepen knowledge through essential topics such as **cryptography, consensus mechanisms**, and **smart contracts**, providing insight into the technological backbone of blockchain systems. Real-world use cases will be highlighted, from **supply chain optimization** and **financial services** to **healthcare management** and **digital governance**, demonstrating the wide-reaching impact of blockchain innovations.

In addition, the seminar will address the critical **challenges and limitations** facing blockchain adoption, including scalability, regulatory hurdles, and environmental concerns. Finally, we will look ahead to the future of blockchain, exploring cutting-edge trends such as **Blockchain 3.0**, **AI integration**, and its synergy with the **Internet of Things (IoT)**.

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