

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI-590014



AICTE ACTIVITY Report

**DEVELOPING A SUSTAINABLE WATER
MANAGEMENT SYSTEM**

Submitted in the partial fulfillment of the requirement for the award of

Bachelor of Engineering

in

CS in IoT, Cyber Security including Blockchain and Engineering

Submitted By

VINCENT SAMUEL PAUL

1DT23IC062



**DEPARTMENT OF CS IN IOT, CYBER SECURITY including
BLOCKCHAIN ENGINEERING**

DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

Udayapura, Kanakapura Main Road, Opp. Art of Living, Bangalore-82

(Accredited by NBA, New Delhi)

Academic Year 2023-24



**DAYANANDA SAGAR ACADEMY OF
TECHNOLOGY & MANAGEMENT**

Affiliated to VTU
Approved by AICTE
Accredited by NAAC with A+ Grade
6 Programs Accredited by NBA
(CSE, ISE, ECE, EEE, MECH, CIVIL)

**DEPARTMENT OF CS IN IOT, CYBER SECURITY including BLOCKCHAIN
ENGINEERING**

Vision of the Department

To be frontier to provide the center of Excellence in the field of IoT, Cybersecurity and Blockchain.

Mission of the Department

The Mission of the CSE in IoT & Cyber security including Blockchain degrees is to provide

M1: a cutting-edge technology to the students to develop and innovate in IoT & Cybersecurity, including Blockchain which proves to be an essential part for any organization.

M2: impart value based technical education of global standards

M3: inculcate the entrepreneurship, technical knowledge and lifelong learning in theory and practice of Computer Science and Engineering in IoT & Cyber security including Blockchain.

M4: To strengthen the alumni and industrial association for development of students leading to technical and socio-economic growth.



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STUDENTS ACTIVITY NUMBER SHEET STUDENT INFORMATION	
NAME OF THE STUDENT	VINCENT SAMUEL PAUL
USN	1DT23IC062
BRANCH	CS in IoT, Cyber Security including Blockchain Engineering
SEMESTER	1
COORDINATOR NAME	Dr. Shashikala
ACTIVITY DETAILS	
ATIVITY POINTS AS SPEIFIED BY VTU/ AICTE	100
ACTIVITY POINTS EARNED TILL DATE	40
TITLE OF THE ACTIVITY UNDERTAKEN	"Developing a sustainable water Management"
DURATION OF ACTIVITY IN HOURS	85hrs
DATES OF THE ACTIVITY UNDERTAKEN	1st December 2023 to 15th January 2024
PLACE OF THE ACTIVITY	Rampura , Karnataka.
NAME AND DESIGNATION OF THE CONCERNED AUTHORITY	Prof.Madhusudhan NSS Co ordinator

Signature of Coordinator

Signature of HOD

INTRODUCTION TO NSS SCHEME:

The National Service Scheme (NSS) camp organized a school visit where students engaged in activities like dance, teaching, music, and games. Established in 2015 under the coordination of **Dr. Madhusudhan H C**, NSS has actively organized initiatives such as blood donation camps, school volunteering, and social work. Annually, NSS conducts a village adoption camp focusing on development projects like blood donation drives and road cleaning. Our college is renowned for its commitment to community service through NSS, fostering community engagement, teamwork, and leadership skills among students.

Pre-Activity:

Before the NSS camp's school visit, several preparatory activities were undertaken to ensure the success and smooth execution of the event:

Research and Planning:

Conduct research on sustainable water management practices relevant to farms.
Identify key concepts and techniques to be explored during the visit. Plan the itinerary and schedule for the visit, ensuring adequate time for learning activities.

Coordination and Logistics:

Coordinate with the farm owner or manager to arrange the visit.
Confirm transportation arrangements for the participants.
Ensure availability of necessary equipment or materials for hands-on learning activities.

Participant Preparation:

Provide participants with background information on sustainable water management and its importance in farming.

Communicate any specific requirements or instructions for the visit, such as appropriate attire or safety precautions.

Activities:

Farm Visit and Hands-on Learning:

Discover various aspects of farm management concerning water, including the implementation of irrigation systems, methods for harvesting rainwater, and techniques for cultivating crops efficiently with minimal water usage.

Participate in practical tasks like setting up drip irrigation systems, monitoring the moisture content of the soil and joining demonstrations on water conservation techniques

Engage with knowledgeable farm personnel and specialists to glean valuable insights into their strategies for sustainable water management.

Pose inquiries, observe practical demonstrations, and actively engage in educational exercises to deepen comprehension and practical skills.





pic.2 interaction with farm members by lecturers

In the farm we look after the so many activities related to the sustainable water management and learnt so, many things about plants and the grafting of the plants, the farm was vast and so many plants and trees and even they provided us some fruits, we enjoyed and learnt so many skills.

Reflection and Discussion:

Conduct a group discussion or reflective session following the farm visit to review and analyze the experiences, insights, and observations shared by participants. Encourage open dialogue regarding the alignment of activities with the goals of sustainable water management.

Application and Action Planning:

Assist individuals in exploring creative avenues for integrating their newfound knowledge of sustainable water management into personal lifestyles or community initiatives. Foster the creation of actionable strategies aimed at incorporating water conservation methods or championing sustainable agricultural approaches.

Evaluation and Feedback:

Obtain input from attendees regarding their farm visit encounters. Assess the activities' efficacy in fulfilling educational goals. Utilize input to enhance forthcoming educational endeavours or farm trips.

Follow-Up:

Maintain constant communication with participants to offer continuous assistance and access to resources concerning sustainable water management.

Disseminate supplementary educational materials, articles, or workshops covering relevant subjects.

Motivate sustained involvement and initiative in advancing sustainability within water management practices.

By integrating these pre- and post-activity responsibilities, you can guarantee a thorough and influential learning journey for participants during their farm visit, focusing on sustainable water management.

Conclusion:

Conclusively, the excursion to the farm furnished invaluable insights and hands-on experience regarding sustainable water management for all involved. Through dynamic activities and dialogues, participants not only deepened their comprehension of the significance of conserving water resources in agriculture but also acquainted themselves with diverse techniques to actualize this objective.

Thorough pre-activity arrangements ensured a well-structured visit that aptly aligned with the overarching goals of fostering community engagement and student enrichment. Subsequent reflection sessions facilitated the sharing of experiences, insights, and strategies for implementing newfound knowledge in personal lives or communities.

Looking ahead, it remains imperative to sustain support and motivation for participants to actively integrate sustainable water management practices. Additionally, advocating for widespread adoption of these practices within farming communities is crucial. By perpetuating educational efforts, fostering collaboration, and catalyzing action, we can significantly contribute to water resource preservation and the enduring sustainability of agricultural systems for generations to come.

