QUEEN MARY'S COLLEGE (AUTONOMOUS), CHENNAI 600004

REPORT ON ICCW (International Centre for Clean water)

INTRODUCTION

The transition skill from classroom to industry was conducted by ICCW(International Centre For Clean Water) in Partnership with A2Z4.0 Research and Analytics Pvt Ltd. The 5-days course was attended by students of the Department of Mathematics from 27/01/2025 to 31/01/2025

This program is aimed to bridge the set gap between academic knowledge and industrial applications by students providing hands on experience in applied aqua analytics.

This program provided a comprehensive understanding in AI (Machine & Deep Learning)

STUDENTS PARTICIPATED:

1.JAYA J

2.SANDHIYA LP

3. SUBHASHINI P

INTERNSHIP DURATION

DURATION : 5 DAYS (27/01/2025 to 31/01/2025)

ORGANIZED BY

ICCW(International Centre For Clean Water)

A2Z4.0 Research and Analytics Pvt Ltd

COURSE TOPIC: APPLIED AQUA ANALYTICS

KEY LEARNING

STATISTICS

Role of Statistics in AI – Statistics is essential in AI for data analysis, pattern recognition, and decision-making. It helps in understanding data distributions and making probabilistic predictions.

Statistical Machine Learning – Algorithms like k-means clustering, decision trees, and neural networks rely on statistical principles for pattern recognition.

EXCEL AND POWER BI

Excel

Data Entry & Formatting

Formulas & Functions

Data Validation DAX

Pivot Tables & Pivot Charts –

POWER BI

Data Importing

Data Transformation

PYTHON

1.Basics of Python

Simple and readable syntax

Dynamically typed (no need to declare variable types)

Interpreted language (executes code line by line)

2. Data Types & Structures

Basic Types: int, float, string, Boolean

Collections: List, Tuple, Set,

DETOX

☐ **Meditation & Mindfulness** – Practicing deep breathing, guided meditation, or mindfulness to clear mental clutter.

☐ **Journaling** – Writing down thoughts and emotions to release negativity and gain clarity.

☐ **Digital Detox** – Limiting screen time, reducing social media use, and avoiding negative news.

☐ **Positive Thinking** – Practicing gratitude, affirmations, and focusing on positive aspects of life.

☐ **Quality Sleep** – Ensuring 7-9 hours of restful sleep for mental

CONCLUSION

The five-day course at IIT was a highly enriching and insightful experience that provided valuable exposure to advanced research, innovative technologies, and practical applications in the field. Through expert-led sessions, hands-on learning, and collaborative discussions,

Students gained a deeper understanding of key concepts and real-world challenges. The internship not only enhanced their technical knowledge but also strengthened problem-solving and teamwork skills. Overall, this experience has been instrumental in broadening students perspective and inspired them to explore further opportunities in this domain.

Chennai, Tamil Nadu, India
Block-b, Iitm Research Park, Kanagam, Tharamani, Chennai,
Tamil Nadu 600113, India
Lat 12.990714° Long 80.243509°
30/01/25 12:32 PM GMT +05:30

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