**INTERNSHIP WEEKLY PROGRESS REPORT**

**Program Name: < MCA- Science Sem IV> Batch 2022-24**

**2024-25**

**PRN: 1132230589**

**Name of the Student: Mayur Babaso Mali Class: SYMCA- SCIENCE SEM IV**

**Weekly Progress Report No.-: 03 Date: 17/02/2025**

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| **Report Start Date (DD/MMM/YYYY)**  **17-02-2025** | **Report End Date (DD/MMM/YYYY)**  **21-02-2025** |
| **Key Tasks Performed in Report Period:**   * Core Java Basics: Explored data types, variables, operators, and control flow statements (6 hours) * Functions and Methods: Implemented reusable functions and method calls (4 hours) * Object-Oriented Programming (OOPs): * Classes and Objects (3 hours) * Encapsulation and Data Hiding (2 hours) * Inheritance and Method Overriding (3 hours) * Polymorphism and Dynamic Binding (2 hours) * Hands-on Practice on W3schools and TUF Platform (8 hours) | |
| **Key Learnings:**   * Strengthened Java fundamentals by practicing real-world coding problems. * Understood the role of functions in modularizing Java programs. * Learned how encapsulation ensures data security and how inheritance promotes code reuse. * Explored the power of polymorphism through method overriding and dynamic method dispatch. * Applied OOP principles in small programs to gain a practical understanding. | |
| **Key Challenges and how you resolved them***:*   * **Challenge:** Debugging OOP-based programs with complex inheritance chains. * **Resolution:** Used IDE debugging tools and step-by-step execution to trace method calls. | |
| **Plan for the next Reporting Period:**   * Learn advanced OOP concepts such as abstract classes and interfaces. * Implement exception handling with try-catch and custom exceptions. * Start working with Java Collections and explore multi-threading basics. | |
| **Cumulative Progress till date** *(% of total Work, if quantifiable)***:**   * 37.5% of total training completed (3 out of 8 weeks). * Java fundamentals covered with strong practical knowledge; ready for advanced concepts. | |

**Name & Signature of Student: Mayur Mali**