## PHY1002 Physics Laboratory (2022-2023 Term2) Short Report

Name: Group:	Student ID: Date of experiment:
Experiment 6. Centripetal Force	
1. Plot the centripetal force $(F)$ vs. mass $(m)$ , what is the relationship between them?	
2. Plot the centripetal force relationship between them?	e (F) vs. square of the tangential speed $(v^2)$ , what is the
3. Plot the centripetal force relationship between them?	se $(F)$ vs. the radius of the rotating arm $(r)$ , what is the
• •	ation from the theory $F = mv^2/r$ , why? Does the friction the rotating arm affect your experiment, how?
Appendix: Attach the table in Proceduclear and detailed caption for	ure m, Procedure v, and Procedure r. (You should write a or each table.)

## --- End of Laboratory Report ---

## **Notes:**

- Submit soft copies online.
- No further modification allowed after deadline.
- No figure is required if not specified.