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PENELITIAN DAN  
PEMBELAJARAN FISIKA**

Department of Physics Education  
Faculty of Teacher Training and Education  
Universitas Sultan Ageng Tirtayasa

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## **PREFACE**

*Bismillahirrahmanirrahim*

Praise the presence of Allah SWT for all the abundance of His grace and guidance so that Gravity: Scientific Journal of Physics Research and Learning Physics Volume 6 Number 1 February 2020 can be published. The content of the Gravity journal publication is tailored to the fields of Physics Learning (Curriculum, Evaluation, Media, Teaching Materials and Student Skills and Prospective Physics Teachers) and Physics (Materials, Instrumentation, Computing, and Environment). Gravity is published twice a year, in February and August.

Gravity in volume 6 Number 1 contains 11 (eleven) articles that have been reviewed by the reviewer team. Most articles come from outside UNTIRTA. On this occasion, we would like to express our appreciation to all those who have been involved in publishing Gravity, namely to reviewer, editorial boards, and others that we cannot mention one by one. May the Almighty God repay all your kindness and efforts.

Hopefully, Gravity can always present information on research results in the field of physics and physics learning.

Editor



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