

## ABSTRAK

**Anita Surya Harahap** Pengembangan *pedagogy content knowledge* (PCK) fisika berbasis inkuiri terbimbing untuk meningkatkan keterampilan proses sains siswa. Program pasca Sarjana, Universitas Negeri Medan, 2019.

Penelitian ini bertujuan Untuk mengetahui hasil belajar keterampilan proses sains siswa dengan pembelajaran inkuiri terbimbing tanpa menggunakan pengembangan PCK dan pembelajaran inkuiri terbimbing menggunakan pengembangan PCK (*Pedagogi content knowledge* ) menggunakan strategi pengembangan ADDIE. (*Analysis, Design, Development or Production, Implementation or Delivery and Evaluations*). Hasil penelitian menunjukkan bahwa PCK berbasis inkuiri terbimbing yang berupa CoRe (77%) dengan kategori valid dengan sedikit revisi dan PaP-eRs dengan (78%) kategori Valid juga sedikit revisi. Setelah direvisi sesuai saran dosen ahli materi sangat praktis menurut guru (95%), Menurut peserta didik (86%) Efektif dan N-gain keterampilan proses sains siswa sebesar (0,73) dalam kategori tinggi.

**Kata Kunci:** *Pedagogy Content Knowledge* (PCK), Model inkuiri terbimbing.

## ABSTRACT

**Anita Surya Harahap** *Development of guided inquiry-based physics content pedagogy (PCK) to improve students' science process skills. Post-graduate program, Medan State University, 2019.*

*This study aims to determine the results of learning science process skills students using the development of CoRe and PaP-eRs PCK (Pedagogy content knowledge) with guided inquiry learning and guided inquiry without using the development of CoRe PCK and PaP-eRs PCK (Pedagogy content knowledge) using the ADDIE development strategy. (Analysis, Design, Development or Production, Implementation or Delivery and Evaluations). The results showed that guided inquiry-based PCK in the form of CoRe (77%) with a valid category with a slight revision and PaP-eRs with 78% (Valid) also with a slight revision. After being revised according to the advice of material expert lecturers it was very practical according to the teacher (95%), According to students (86%) Effective and N-gain science process skills students amounted to (0.73) in the high category.*

*Keywords: Pedagogy Content Knowledge (PCK), guided inquiry model*

