**PENGEMBANGAN ENSIKLOPEDIA TOKOH PERAIH NOBEL KIMIA SEBAGAI SUMBER PENGETAHUAN DAN PENDIDIKAN KARAKTER BAGI SISWA SMA/MA**

Oleh:

Nurani Dyah Puspitasari

NIM. 11303241024

Dosen Pembimbing: Heru Pratomo Al, M.Si

# **ABSTRAK**

Penelitian ini merupakan penelitian pengembangan dalam bidang pendidikan kimia. Penelitian ini bertujuan untuk mengembangkan Ensiklopedia Tokoh Peraih Nobel Kimia yang memuat tokoh-tokoh kimia yang menerima Nobel Kimia yang penelitian atau penemuannya muncul di buku kimia SMA. Selain itu, penelitian ini juga bertujuan untuk menentukan kualitas produk esiklopedia yang dikembangkan.

Prosedur pengembangan ensiklopedia ini terdiri atas lima tahapan, yaitu perencanaan, pengorganisasian, pelaksanaan, validasi produk, dan analisis data. Draft awal Ensiklopedia Tokoh Peraih Nobel Kimia dikonsultasikan pada dosen pembimbing. Selanjutnya produk ditinjau dan mendapatkan masukan dari *peer reviewer*, ahli media, dan ahli materi. Penilaian dilakukan oleh lima guru kimia di SMA sebagai *reviewer*. Instrumen penilaian Ensiklopedia Tokoh Peraih Nobel Kimia berupa lembar penilaian yang berisi 5 komponen kelayakan dan 40 kriteria penilaian kualitas ensiklopedia. Hasil penilaian berupa data kualitatif yang kemudian diubah menjadi data kuantitatif, yang selanjutnya ditabulasi dan dianalisis dengan pedoman kriteria penilaian ideal untuk menentukan kualitas Ensiklopedia Tokoh Peraih Nobel Kimia.

Produk Ensiklopedia Tokoh Peraih Nobel Kimia memuat 15 tokoh kimia. Ensiklopedia ini menekankan sisi pendidikan karakter yang dapat diambil dari perjalanan hidup tokoh-tokoh kimia yang diulas. Komponen Ensiklopedia Tokoh Peraih Nobel Kimia, meliputi*: Judul*, *Kata Pengantar*, *Daftar Isi*, *Isi Ensiklopedia*, *Daftar Pustaka*, *Glosarium*,dan *Indeks*. Berdasarkan penilaian *reviewer*, ensiklopedia yang dikembangkan mempunyai kualitas sangat baik menurut kriteria penilaian ideal.

**Kata kunci**: ensiklopedia kimia, Nobel Kimia, pendidikan karakter

**THE DEVELOPING OF ENCYCLOPEDIA OF CHEMISTRY NOBEL LAUREATE AS KNOWLEDGE SOURCE OF LEARNING AND CHARACTER EDUCATION FOR STUDENTS IN *SMA/MA***

By:

Nurani Dyah Puspitasari

NIM. 11303241024

Supervisor: Heru Pratomo Al, M.Si

# **ABSTRACT**

This was a development research in the chemistry education. This development research aimed to develop Encyclopedia of Chemistry Nobel Laureate that contains of chemist figures that received Nobel Prize in Chemistry, which their research or discovery written in the Senior High School chemistry book. In addition, this development research also aimed to determine the quality of this product.

The procedure of this development consisted of five steps: planning, organizing, implementing, product validating, and data analyzing. Encyclopedia of Chemistry Nobel Laureate had been consulted to supervisor. Then the product had been received and got adviced from peer reviewers, expert of media, and expert of subject content. The theoretical validity had been given by five senior high school teachers as reviewers. The evaluation consisted of evaluation aspect and criteria of quality. It was contained 5 aspects with 40 criteria. The result was qualitative data that was changed into quantitative data, then tabulated and finally analyzed based on criteria of ideal evaluation to determine the quality of Encyclopedia of Chemistry Nobel Laureate.

The Encyclopedia of Chemistry Nobel Laureate contained of 15 chemist figures. This encyclopedia emphasized the side of character education that would be taken from the chemist character’s journey of their life. The components of Encyclopedia of Chemistry Nobel Laureate were *Judul*, *Kata Pengantar*, *Daftar Isi*, *Isi Ensiklopedia*, *Daftar Pustaka*, *Glosarium*,and *Indeks*. Based on theoretical validity by reviewers, the evcyclopedia had very good quality according to criteria of ideal evaluation.

**Keywords**: encyclopedia of chemistry, Nobel Prize in Chemistry, character education