

**THE DEVELOPMENT OF INTERACTIVE AND INNOVATIVE OF
CHEMISTRY LEARNING MATERIAL ON THE TEACHING OF
ELECTROCHEMISTRY**

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ABSTRACT

The objective of this research was to develop and standardize interactive and innovative chemistry learning material on the teaching of electrochemistry. The learning material was developed by enhancing chemistry topic on curriculum in The State University of Medan was followed by integration of sheet laboratory experiments, video learning, learning media, link website to relevant material, and include with a CD interactive. The material was designed in printed and electronic book. This research sample was general chemistry books, chemistry lectures and university students. It was started to analyzed ten books general chemistry then was developed become interactive and innovative learning material that had standardized by chemistry lectures and university students, to fulfill quality of learning material. Learning material was made in form of electronic book (flip book), was made easy to learn without have to bring a print book. The Standardization result of learning material obtained average a value of 3.57 by lectures and university students obtained a value of 3.73 and total average from lectures and university students obtained a value of 3.65 where categorized as very good. These total average of 3.65 included on the average range between 3.26 to 4.00, so learning material was valid and trial result of learning material that was used descriptive question to university student where was given positive response. Suggestion regarding for learning material was seen learning materials in general, videos was contained in several sub subjects, continuity between examples and exercises with a sub subject, the understanding of sub subjects that was existed in learning materials, the innovation was contained and e-book on learning material to software available was gotten a positive response.