

## ABSTRAK

**Siti Sarah :“Penerapan Lembar Kerja Berbasis Proyek Untuk Menegembangkan Keterampilan berpikir Kreatif pada Pembuatan Plastik Biodegradable dari Limbah Pati dengan Penambahan Ekstrak Kulit Jeruk”**

Keterampilan berpikir kreatif sangat diperlukan agar peserta didik mampu untuk menemukan serta menentukan hal-hal baru dalam kehidupannya untuk menyelesaikan berbagai permasalahan dan mampu berpikir dari banyak sudut pandang. Penelitian ini bertujuan untuk mendeskripsikan kinerja berupa aktivitas dan kemampuan menyelesaikan lembar kerja, serta menganalisis keterampilan berpikir kreatif pada penerapan lembar kerja berbasis proyek dalam pembuatan plastik *biodegradable* ekstrak kulit jeruk. Desain penelitian yang digunakan adalah *one shot case study* dengan subjek penelitian mahasiswa yang mengikuti mata kuliah Pengelolaan dan Pengolahan Limbah semester VI Program Studi Pendidikan Kimia Fakultas Tarbiyah dan Keguruan Universitas Islam Negeri Sunan Gunung Djati Bandung yang berjumlah 21 orang. Instrumen yang digunakan berupa deksripsi pembelajaran, lembar observasi, lembar kerja berbasis proyek, lembar penilaian (kinerja, presentasi, produk, dan poster). Hasil penelitian ini menunjukkan bahwa penerapan lembar kerja berpikir kreatif terlaksana sangat baik sesuai deskripsi pembelajaran dengan presentase 88%. Kemampuan mahasiswa dalam menyelesaikan lembar kerja secara keseluruhan sangat baik dengan rata-rata 90%. Keterampilan berpikir kreatif setiap kelompok secara keseluruhan memperoleh level empat dengan kategori sangat kreatif. Berdasarkan beberapa hal tersebut menunjukkan bahwa penerapan lembar kerja berbasis proyek mampu mengembangkan keterampilan berpikir kreatif.

**Kata Kunci** : Lembar kerja berbasis proyek, plastik *biodegradable*, limbah pati, ekstrak kulit jeruk, keterampilan berpikir kreatif

## ABSTRACT

**Siti Sarah :“ Implementing Project Based Worksheets For Develop Creative Thinking Skills in Manufacturing Biodegradable Plastics from Starch Waste with Additions Orange Peel Extract”**

Creative thinking skills are needed so that students are able to find and determine new things in their lives to solve various problems and are able to think from many perspectives. This study aims to describe performance in the form of activities and ability to complete worksheets, as well as analyze creative thinking skills in the application of project-based worksheets in the manufacture of orange peel extract biodegradable plastic. The research design used was a one-shot case study with 21 students participating in the Waste Management and Treatment course in the sixth semester of the Chemistry Education Study Program, Faculty of Tarbiyah and Teacher Training, State Islamic University Sunan Gunung Djati, Bandung. The instruments used are learning descriptions, observation sheets, project-based worksheets, assessment sheets (performance, presentations, products, and posters). The results of this study indicate that the application of creative thinking worksheets is carried out very well according to the learning description with a percentage of 88%. The ability of students to complete worksheets as a whole is very good with an average of 90%. The creative thinking skills of each group as a whole obtained four levels with very creative categories. Based on these several things, it shows that the application of project-based worksheets is able to develop creative thinking skills.

**Keywords:** Project-based worksheets, biodegradable plastic, starch waste, orange peel extract, creative thinking skills