

**PERBEDAAN HASIL BELAJAR DAN KEMAMPUAN PROSES SAINS
SISWA MENGGUNAKAN METODE *STUDENT CREATED CASE
STUDIES* DISERTAI VIDEO DENGAN MEDIA GAMBAR PADA
MATERI POKOK PENCEMARAN LINGKUNGAN KELAS X SMA
SWASTA ERIA MEDAN TAHUN PEMBELAJARAN 2015/2016**

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ABSTRAK

Penelitian yang dilakukan di SMA Swasta Eria Medan ini bertujuan untuk mengetahui apakah ada perbedaan hasil belajar dan kemampuan proses sains siswa menggunakan metode *Student Created Case Studies* disertai video dengan media gambar. Jenis penelitian yang digunakan adalah eksperimen dengan memberikan perlakuan kepada kedua kelompok sampel penelitian. Populasi dalam penelitian ini adalah seluruh siswa kelas X SMA Swasta Eria Medan yaitu sebanyak 7 kelas dengan jumlah siswa 290 orang. Sampel penelitian diambil dua kelas yang ditentukan dengan teknik *random sampling*, yaitu kelas video (X-4) dan kelas gambar (X-5) masing-masing sebanyak 33 siswa. Instrumen yang digunakan dalam penelitian ini adalah tes dalam bentuk objektifitas yaitu untuk soal postest sebanyak 30 soal yang masing-masing telah dinyatakan valid dan reliabel. Sebelum pengujian hipotesis terlebih dahulu diuji normalitas dan homogenitas tes. Normalitas diuji dengan menggunakan teknik Liliefors dan homogenitas dengan menggunakan uji F. Dari pengujian yang dilakukan diperoleh bahwa kedua sampel berdistribusi normal dan homogen. Hasil penelitian diperoleh bahwa rata-rata hasil belajar yang diajarkan menggunakan metode *Student Created Case Studies* disertai video dengan media gambar dengan hasil pengujian hipotesis diperoleh $t_{hitung} > t_{tabel}$ yaitu $2,79 > 1,997$ pada taraf $\alpha = 0,05$. Hasil belajar siswa kelas video diperoleh rata-rata postest sebesar 73,5. Sedangkan hasil belajar siswa kelas gambar rata-rata postest sebesar 66,1. Adapun hasil penelitian diperoleh bahwa rata-rata kemampuan proses sains yang diajarkan menggunakan metode *Student Created Case Studies* disertai video dengan media gambar dengan hasil pengujian hipotesis diperoleh $t_{hitung} > t_{tabel}$ yaitu $2,04 > 1,997$ pada taraf $\alpha = 0,05$. Kemampuan proses sains siswa kelas video diperoleh rata-rata postest sebesar 79,8. Sedangkan hasil belajar siswa kelas Gambar rata-rata postest sebesar 74,4.

Kata Kunci : Metode *Student Created Case Study*, Hasil Belajar, Kemampuan Proses Sains

**THE DIFFERENT OF STUDENTS LEARNING OUTCOMES AND
ABILITY SAINS PROCES USING *STUDENT CREATED CASE STUDIES*
METHODE ALSO VIDEO WITH PICTURE MEDIA IN MATERIAL
OF ENVIRONMENTAL POLLUTION IN CLASS X SMA SWASTA ERIA
MEDAN YEAR 2015/2016**

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ABSTRACT

Research conducted in SMA Swasta Eria Medan aims to determine whether there are differences in learning outcomes and the ability to process student science using methods Case Studies Student Created video accompanied by media images. This type of research is an experiment by giving treatment to both groups of the study sample. The population in this study were all students of class X SMA Private Eria Terrain as many as 7 classes with 290 students enrolled. Samples were taken two classes are determined by random sampling technique, namely video class (X-4) and picture class (X-5) each as many as 33 students. The instrument used in this study was a test in the form of objectivity which is to question post-test as many as 30 questions, each of which has been declared valid and reliable. Before testing the first hypothesis tested normality and homogeneity test. Normality was tested using the techniques Liliefors and homogeneity test was used F. From the tests showed that the two samples were normally distributed and homogeneous. The result showed that the average learning outcomes are taught using methods Case Studies Student Created video accompanied by media images with the hypothesis testing results obtained $t > t$ table is $2,79 > 1,997$ at the level of $\alpha = 0,05$. The results of the video class grade students gained an average of 73.5 posttest. While the results of picture class graders posttest average of 66.1. The result showed that the average ability of the process of science is taught using methods Case Studies Student Created video accompanied by media images with the hypothesis testing results obtained $t > t$ table is $2,04 > 1,997$ at the level of $\alpha = 0,05$. The ability of the process of science video class gained an average of 79.8 posttest. While the results of picture class graders posttest average of 74.4.

Keyword : *Student Created Case Study* Methods, Learning Outcomes, The Ability to Process Student Science.