

ABSTRAK

ILHAM HAKIKI HARAHAHAP. Analisis Kemampuan Berpikir Kritis, Literasi Sains dan Sikap Ilmiah Pada Materi Ekosistem di SMA Negeri 2 Kotapinang. Tesis. Medan : Program Pascasarjana Universitas Negeri Medan, Juni 2020.

Penelitian ini dilaksanakan di SMA Negeri 2 Kotapinang yang bertujuan : (1) untuk mengetahui tingkat kemampuan berpikir kritis siswa kelas X di SMA Negeri 2 Kotapinang; (2) tingkat kemampuan literasi sains siswa kelas X di SMA Negeri 2 Kotapinang (3) sikap ilmiah siswa kelas X di SMA Negeri 2 Kotapinang (4) tingkat kemampuan berpikir kritis siswa pada siswa laki-laki dan perempuan (5) tingkat kemampuan literasi sains siswa pada siswa laki-laki dan perempuan (6) dan sikap ilmiah siswa pada siswa laki-laki dan perempuan. Sampel penelitian berjumlah 107 siswa kelas X dari populasi 107 orang siswa yang terdiri dari 3 kelas di SMA Negeri 2 Kotapinang. Instrumen penelitian berupa tes tes kemampuan berpikir kritis dan literasi sains dan non tes yaitu angket pada sikap ilmiah siswa. Hasil penelitian menunjukkan tingkat kemampuan berpikir kritis siswa; (1) SMA Negeri 2 Kotapinang tergolong sangat rendah (27,07); (2) tingkat kemampuan literasi sains siswa kelas X di SMA Negeri 2 Kotapinang tergolong rendah (50,76); (3) sikap ilmiah siswa kelas X di SMA Negeri 2 Kotapinang tergolong baik (73,63); (4) tingkat kemampuan berpikir kritis siswa pada siswa laki-laki laki-laki diperoleh sebesar (25,31) dan perempuan diperoleh sebesar (27,97) yang sama-sama tergolong rendah; (5) tingkat kemampuan literasi sains siswa pada siswa laki-laki diperoleh sebesar (47,78) dan perempuan diperoleh sebesar (52,27) yang sama-sama tergolong rendah; (6) dan sikap ilmiah siswa pada siswa laki-laki diperoleh sebesar (70,62) dan perempuan diperoleh sebesar (75,15) yang sama-sama tergolong baik.. Hasil nilai t_{hitung} Kemampuan Berpikir Kritis siswa berdasarkan gender t_{hitung} 0,135 > 0,001 dengan selisih -1,505, nilai t_{hitung} literasi sains siswaberdasarkan gender 0,188 > 0,001 dengan selisih -1,326 dan sikap ilmiah berdasarkan gender t_{hitung} 0,006 < 0,001 dengan selisih -2,816. Dari hasil uji t menunjukkan bahwa kemampuan berpikir kritis siswa dan literasi sains tidak ada perbedaan signifikan antara siswa laki-laki dan perempuan, sedangkan sikap ilmiah sangat berbeda signifikan.

Kata kunci: *Analisis Kemampuan Berpikir Kritis, Literasi Sains, Sikap ilmiah, Ekosistem.*

ABSTRACT

ILHAM HAKIKI HARAHAHAP. Analysis of Student's Critical Thinking Skills, Scientific Literacy and Scientific Attitude in Ecosystem Materials at SMA Negeri 2 Kotapinang. Thesis. Medan : Postgraduate Program Medan State University, June 2020.

This research was conducted at SMA Negeri 2 Kotapinang which aimed to determine (1) the level of critical thinking skills of students grade X at SMA Negeri 2 Kotapinang; (2) level of scientific literacy skills of grade X students in SMA Negeri 2 Kotapinang (3) scientific attitude of grade X students at SMA Negeri 2 Kotapinang (4) level of critical thinking skills of students in male and female students (5) level of scientific literacy skills of male and female students (6) and scientific attitudes of male and female students. The research sample consisted of 107 students of grade X from a population of 107 students consisting of 3 classes in SMA Negeri 2 Kotapinang. Research instruments were in the form of tests of critical thinking skills and scientific literacy and non-test questionnaires on students' scientific attitudes. The results showed the level of students' critical thinking skills; (1) SMA Negeri 2 Kotapinang was classified as low (27.07); (2) the level of scientific literacy skills of grade X students at SMA Negeri 2 Kotapinang was quite good (50.76); (3) the scientific literacy of class X students at SMA Negeri 2 Kotapinang was quite good (73.63); (4) the level of critical thinking skills of male students was obtained by (25.31) and female students was obtained by (27.97) which were both classified as low; (5) the level of scientific literacy skills of male students was obtained (47.78) and female students was obtained (52.27) which was both quite good; (6) and the scientific attitude of male students was (70,62) and female students was (75,15). The results of the t_{count} of students Critical Thinking Skills based on gender $t_{\text{count}} 0,135 > 0,001$ with a difference of $-1,505$, the value t_{count} of students scientific literacy based on gender $0,188 > 0,001$ with a difference of $-1,326$ and scientific attitudes based on gender $t_{\text{count}} 0,006 < 0,001$ with a difference of $-2,816$. The test results show that student's critical thinking skills and scientific literacy have no significant difference between male and female student's, while the scientific attitude is very different.

Keyword : *Critical Thinking Skills, Scientific Literacy, Scientific Attitude, Ecosystem.*