**NPar Tests**

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| --- | --- | --- | --- | --- | --- |
| **One-Sample Kolmogorov-Smirnov Test** | | | | | |
|  | | HB\_Eks\_Pretest | HB\_Kontrol\_Pretest | HB\_Eks\_Posttest | HB\_Kontrol\_Posttest |
| N | | 42 | 43 | 42 | 43 |
| Normal Parametersa,b | Mean | 69.3810 | 66.2326 | 80.6190 | 74.0233 |
| Std. Deviation | 7.29501 | 7.20065 | 7.16003 | 7.28498 |
| Most Extreme Differences | Absolute | .133 | .106 | .134 | .128 |
| Positive | .133 | .086 | .130 | .128 |
| Negative | -.075 | -.106 | -.134 | -.111 |
| Test Statistic | | .133 | .106 | .134 | .128 |
| Asymp. Sig. (2-tailed) | | .060c | .200c,d | .054c | .073c |
| a. Test distribution is Normal. | | | | | |
| b. Calculated from data. | | | | | |
| c. Lilliefors Significance Correction. | | | | | |
| d. This is a lower bound of the true significance. | | | | | |

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| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variance** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| Hasil Belajar Statistik | Based on Mean | .070 | 1 | 83 | .792 |
| Based on Median | .065 | 1 | 83 | .800 |
| Based on Median and with adjusted df | .065 | 1 | 82.989 | .800 |
| Based on trimmed mean | .071 | 1 | 83 | .791 |

**T-Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Kelas | N | Mean | Std. Deviation | Std. Error Mean |
| Hasil Belajar Statistik | Kelas Eksperimen | 42 | 80.6190 | 7.16003 | 1.10482 |
| Kelas Kontrol | 43 | 74.0233 | 7.28498 | 1.11095 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | | | | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means | | | | | | |
| F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Hasil Belajar Statistik | Equal variances assumed | .070 | .792 | 4.209 | 83 | .000 | 6.59579 | 1.56711 | 3.47887 | 9.71271 |
| Equal variances not assumed |  |  | 4.210 | 82.996 | .000 | 6.59579 | 1.56679 | 3.47951 | 9.71207 |

**HASIL ANALIIS LEMBAR KETERLAKSANAAN PEMBELAJARAN**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Aspek Yang Diamati** | **Pertemuan Ke- /Pengamat Ke-** | | | | | | | | | | | | | | | | | | | | **Rerata Aspek Ke-** |
| **I** | | | | | **II** | | | | | **III** | | | | | **IV** | | | | |
| **P1** | **P2** |  | **A** | **D** | **P1** | **P2** |  | **A** | **D** | **P1** | **P2** |  | **A** | **D** | **P1** | **P2** |  | **A** | **D** |
| **Sintaks** | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Fase pelibatan (*engaged*) mahasiswa untuk aktif dalam pembelajaran | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1,9 |
| 2 | Fase menggali pikiran mahasiswa untuk menemukan pengetahuan (*explore*) | 2 | 1 | 1,5 | 0 | 1 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 |
| 3 | Fase menjelaskan materi secara detail dan bermakna sehingga mahasiswa dapat memahami materi secara jelas (*explane*) | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 2 | 1,5 | 0 | 1 | 2 | 2 | 2 | 1 | 0 |
| 4 | Fase pendalaman materi untuk mendorong mahasiswa agar berargumentasi (*elaborasi*). | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 |
| 5 | Fase pemberian kuis, latihan soal atau studi kasus untuk mengukur capaian belajar (*evaluate*). | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 |
| Rerata | | 2 | 1,8 | 1,9 |  | | 1,8 | 1,8 | 1,8 |  | | 1,8 | 2 | 1,9 |  | | 2 | 2 | 2 |  | |
| Frekuensi A&D | |  | | | 4 | 1 |  | | | 5 | 0 |  | | | 4 | 1 |  | | | 5 | 0 |
| *Percentage of Agreement* (Reliabilitas) | | 80% | | 100% | | 80% | | 100% | |
| **Interaksi Sosial** | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Interaksi dosen dengan mahasiswa dan antara mahasiswa dengan mahasiswa. | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1,66 |
| 2 | Keaktifan mahasiswa memahami masalah pada bahan ajar secara individu. | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 1,5 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |
| 3 | Keaktifan mahasiswa menyelesaikan masalah dengan menggunakan software minitab. | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |
| 4 | Keaktifan mahasiswa dalam membandingkan atau mendiskusikan jawaban atau pendapat dengan teman kelompoknya. | 2 | 1 | 1,5 | 0 | 1 | 2 | 1 | 1,5 | 0 | 1 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 |
| 5 | Keaktifan mahasiswa dalam menyampaikan hasil diskusi secara berkelompok kepada kelompok yang lain. | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 2 | 1 | 0 |
| 6 | Keaktifan mahasiswa dalam menyampaikan jawaban, menanggapi pertanyaan dari kelompok lain. | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 2 | 1,5 | 0 | 1 |
| 7 | Keaktifan mahasiswa dalam membuat kesimpulan atau rangkuman. | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 1,5 | 0 | 1 | 2 | 2 | 2 | 1 | 0 |
| Rerata | | 1,86 | 1,71 | 1,79 |  | | 1,71 | 1,71 | 1,71 |  | | 1,57 | 1,71 | 1,64 |  | | 1,43 | 1,57 | 1,5 |  | |
| Frekuensi A&D | |  | | | 6 | 1 |  | | | 6 | 1 |  | | | 6 | 1 |  |  |  | 6 | 1 |
| *Percentage of Agreement* (Reliabilitas) | | 86% | | 86% | | 86% | |  |  |  | 86% | |
| **Prinsip Reaksi** | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Dosen menciptakan suasana yang nyaman dan membangkitkan motivasi mahasiswa untuk belajar. | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1,63 |
| 2 | Dosen menyediakan dan mengelola bahan ajar yang sesuai dengan KD yang akan dicapai. | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 1,5 | 0 | 1 |
| 3 | Dosen memperhitungkan rasionalitas alokasi waktu dalam memecahkan masalah yang terdapat pada bahan ajar. | 2 | 1 | 1,5 | 0 | 1 | 2 | 2 | 2 | 1 | 0 | 1 | 2 | 1,5 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| 4 | Dosen membimbing mahasiswa/kelompok mahasiswa bekerja dalam menyelesaikan soal dalam bahan ajar. | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |
| 5 | Dosen memberikan penguatan positif kepada mahasiswa. | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |
| Rerata | | 1,8 | 1,6 | 1,7 |  | | 2 | 2 | 2 |  | | 1,4 | 1,6 | 1,5 |  | | 1,4 | 1,2 | 1,3 |  | |
| Frekuensi A&D | |  | | | 4 | 1 |  | | | 5 | 0 |  | | | 4 | 1 |  | | | 4 | 1 |
| *Percentage of Agreement* (Reliabilitas) | | 80% | | 100% | | 80% | | 80% | |
| **Rerata Keseluruhan Aspek** | | | | | | | | | | | | | | | | | | | | | | **1,73** |

Pre test

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variance** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| Hasil Belajar Statistik | Based on Mean | .000 | 1 | 83 | .994 |
| Based on Median | .000 | 1 | 83 | .994 |
| Based on Median and with adjusted df | .000 | 1 | 82.827 | .994 |
| Based on trimmed mean | .000 | 1 | 83 | .986 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Kelas | N | Mean | Std. Deviation | Std. Error Mean |
| Hasil Belajar Statistik | Kelas Eksperimen | 42 | 69.3810 | 7.29501 | 1.12564 |
| Kelas Kontrol | 43 | 66.2326 | 7.20065 | 1.09809 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | | | | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means | | | | | | |
| F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Hasil Belajar Statistik | Equal variances assumed | .000 | .994 | 2.002 | 83 | .049 | 3.14839 | 1.57229 | .02116 | 6.27562 |
| Equal variances not assumed |  |  | 2.002 | 82.888 | .049 | 3.14839 | 1.57254 | .02062 | 6.27617 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Statistics** | | | | | |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | Sebelum | 69.3810 | 42 | 7.29501 | 1.12564 |
| Sesudah | 80.6190 | 42 | 7.16003 | 1.10482 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Paired Samples Correlations** | | | | |
|  | | N | Correlation | Sig. |
| Pair 1 | Sebelum & Sesudah | 42 | .925 | .000 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Paired Samples Test** | | | | | | | | | |
|  | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Pair 1 | Sebelum - Sesudah | -11.23810 | 2.80947 | .43351 | -12.11359 | -10.36260 | -25.923 | 41 | .000 |