

# **LAMPIRAN**

Lampiran 1.  
Uji Coba Instrumen Penelitian



### KISI-KISI UJI INSTRUMEN PENELITIAN

| Variabel              | Sub Variabel                                         | Indikator                                                                                                                                                                                 | Nomor Butir                           |
|-----------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Keterampilan Mengajar | Keterampilan membuka pelajaran                       | a. Menarik perhatian siswa<br>b. Memotivasi siswa<br>c. Memberi acuan<br>d. Memberi kaitan (apersepsi)                                                                                    | 1<br>2<br>3<br>4                      |
|                       | Keterampilan menjelaskan                             | a. Menguasai materi<br>b. Menerangkan materi<br>c. Mendemonstrasikan<br>d. Berkomunikasi dengan isyarat<br>e. Menggunakan bahasa<br>f. Menyajikan penjelasan<br>g. Kejelasan              | 5<br>6<br>7, 8<br>9<br>10<br>11<br>12 |
|                       | Keterampilan memberikan penguatan                    | a. Penguatan verbal<br>b. Penguatan mimik dan gerak badan<br>c. Penguatan dengan cara mendekati<br>d. Penguatan dengan kegiatan yang menyenangkan<br>e. Penguatan berupa simbol dan benda | 13, 14<br>15<br>16<br>17<br>18        |
|                       | Keterampilan menggunakan media dan alat pembelajaran | a. Memberdayakan media & alat pembelajaran<br>b. Memproduksi media sendiri.<br>c. Menggunakan media dan alat pelajaran dalam pembelajaran                                                 | 19, 20<br>21<br>22, 23                |
|                       | Keterampilan menyusun skenario pembelajaran          | a. Memilih metode dan strategi<br>b. Mengurutkan proses pembelajaran sesuai metode<br>c. Mengelola kelas<br>d. Mengorganisasi kelas<br>e. Memberi konsultasi pembelajaran                 | 24<br>25<br>26<br>27<br>28            |
|                       | Keterampilan mengadakan variasi                      | a. Variasi dalam gaya mengajar<br>b. Variasi media pengajaran<br>c. Variasi pola interaksi<br>d. Variasi stimulasi                                                                        | 29, 30<br>31<br>32<br>33, 34          |
|                       | Keterampilan                                         | a. Memusatkan perhatian<br>b. Memperjelas masalah                                                                                                                                         | 35<br>36                              |

|               |                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                  |
|---------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|               | membimbing diskusi             | c. Menganalisis pandangan siswa<br>d. Meningkatkan partisipasi siswa<br>e. Menyebarkan kesempatan berpartisipasi<br>f. Menutup diskusi                                                                                                                                                                                                                                                                     | 37<br>38<br>39<br>40                                                             |
|               | Keterampilan mengelola kelas   | a. Keterampilan untuk menciptakan dan memelihara kondisi belajar yang optimal<br>b. Keterampilan untuk mengembalikan kondisi belajar yang optimal                                                                                                                                                                                                                                                          | 41<br>42                                                                         |
|               | Keterampilan bertanya          | a. Pertanyaan diajukan secara jelas<br>b. Pertanyaan memancing pendapat atau keaktifan pembelajar<br>c. Pemberian acuan<br>d. Pemusatan<br>e. Pemindahan giliran<br>f. Penyebaran<br>g. Pemberian waktu berpikir<br>h. Pemberian tuntunan<br>i. Pengubahan tingkat kognitif dalam pertanyaan<br>j. Pengaturan urutan pertanyaan<br>k. Penggunaan pertanyaan pelacak<br>l. Peningkatan terjadinya interaksi | 43<br>44<br>45<br>46<br>47<br>48<br>49<br>50, 51<br>52<br>53<br>54<br>55, 56, 57 |
|               | Keterampilan mengevaluasi      | a. Menggunakan berbagai bentuk tagihan<br>b. Bentuk instrument yang dapat dipilih                                                                                                                                                                                                                                                                                                                          | 58, 59<br>60                                                                     |
|               | Keterampilan menutup pelajaran | a. Meninjau kembali<br>b. Mengevaluasi<br>c. Membuat simpulan<br>d. Memberikan tugas                                                                                                                                                                                                                                                                                                                       | 61<br>62, 63<br>65<br>65                                                         |
| <b>Jumlah</b> |                                |                                                                                                                                                                                                                                                                                                                                                                                                            | 65                                                                               |

## ANGKET UJI INSTRUMEN PENELITIAN

### PERSEPSI SISWA TERHADAP KETERAMPILAN MENGAJAR MAHASISWA PLT JURUSAN PENDIDIKAN TEKNIK SIPIL DAN PERENCANAAN DI SMK NEGERI 1 MAGELANG 2018/2019

#### I. PETUNJUK PENGISIAN

1. Sebelum mengisi jawaban, isilah terlebih dahulu identitas anda.
2. Bacalah setiap butir pertanyaan secara teliti sebelum memberi jawaban
3. Berilah tanda *checklist* (✓) pada kolom alternatif jawaban sesuai dengan pilihan anda, dengan keterangan sebagai berikut:  
SS = Sangat Setuju  
  
S = Setuju  
  
KS = Kurang Setuju  
  
TS = Tidak Setuju
4. Jawablah setiap butir pertanyaan sesuai dengan yang Saudara alami.
5. Periksa kembali identitas sebelum menyerahkan angket ini.

#### II. IDENTITAS RESPONDEN

Nama : .....

Kelas : .....

No. Absen : .....

| No                             | Pertanyaan                                                              | Jawaban |   |    |    |
|--------------------------------|-------------------------------------------------------------------------|---------|---|----|----|
|                                |                                                                         | SS      | S | KS | TS |
| Keterampilan Membuka Pelajaran |                                                                         |         |   |    |    |
| 1.                             | Mahasiswa memeriksa kehadiran siswa sebelum memulai pelajaran           |         |   |    |    |
| 2.                             | Mahasiswa bersikap hangat dalam berinteraksi dengan siswa               |         |   |    |    |
| 3.                             | Mahasiswa PPL mengemukakan kegiatan pembelajaran yang akan dilaksanakan |         |   |    |    |
| 4.                             | Mahasiswa mengaitkan peristiwa aktual dengan materi yang disampaikan    |         |   |    |    |

| <b>Keterampilan Menjelaskan</b>                             |                                                                                                                       |  |  |  |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--|--|--|
| 5.                                                          | Contoh yang dijelaskan mahasiswa sesuai dengan materi yang dipelajari                                                 |  |  |  |
| 6.                                                          | Mahasiswa menjelaskan dengan jelas dan tidak berbelit-belit                                                           |  |  |  |
| 7.                                                          | Mahasiswa menjelaskan contoh dengan cara mendemonstrasikan                                                            |  |  |  |
| 8.                                                          | Mahasiswa memberikan contoh ilustrasi yang mudah dipahami siswa                                                       |  |  |  |
| 9.                                                          | Mahasiswa menggunakan bahasa isyarat dalam menerangkan (mengacungkan jempol, tepuk tangan, menunjuk papan tulis, dll) |  |  |  |
| 10.                                                         | Mahasiswa menggunakan bahasa yang baik dan mudah dipahami                                                             |  |  |  |
| 11.                                                         | Mahasiswa memberikan penjelasan sampai siswa memahami materi                                                          |  |  |  |
| 12.                                                         | Siswa memahami apa yang mahasiswa jelaskan                                                                            |  |  |  |
| <b>Keterampilan Memberikan Penguatan</b>                    |                                                                                                                       |  |  |  |
| 13.                                                         | Mahasiswa memberikan penguatan verbal (perhatikan ini sangat penting, ya.. benar 100 untuk anda, dll)                 |  |  |  |
| 14.                                                         | Mahasiswa memberikan pujian kepada siswa yang menjawab pertanyaan                                                     |  |  |  |
| 15.                                                         | Mahasiswa menggunakan mimik / isyarat / gerak badan (contoh: mengacungkan jempol, tepuk tangan)                       |  |  |  |
| 16.                                                         | Mahasiswa memusatkan penjelasan kepada siswa secara individu maupun kelompok dengan mendekati/menghampiri             |  |  |  |
| 17.                                                         | Mahasiswa mengajak beberapa siswa kedepan untuk mendemonstrasikan materi                                              |  |  |  |
| 18.                                                         | Mahasiswa menjelaskan secara kreatif menggunakan benda yang ada di sekitar                                            |  |  |  |
| <b>Keterampilan Menggunakan Media dan Alat Pembelajaran</b> |                                                                                                                       |  |  |  |
| 19.                                                         | Mahasiswa memberi kesempatan kepada siswa untuk                                                                       |  |  |  |

|                                                    |                                                                                                        |  |  |  |  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------|--|--|--|--|
|                                                    | membantu menggunakan media (proyektor, papan tulis, dll)                                               |  |  |  |  |
| 20.                                                | Mahasiswa mengajak siswa untuk menggunakan alat pembelajaran yang ada (alat praktik, alat peraga, dll) |  |  |  |  |
| 21.                                                | Mahasiswa menerangkan materi dengan cara presentasi (powerpoint)                                       |  |  |  |  |
| 22.                                                | Mahasiswa menjelaskan materi menggunakan media pembelajaran                                            |  |  |  |  |
| 23.                                                | Mahasiswa menjelaskan materi menggunakan alat pembelajaran                                             |  |  |  |  |
| <b>Keterampilan Menyusun Skenario Pembelajaran</b> |                                                                                                        |  |  |  |  |
| 24.                                                | Strategi atau cara mengajar mahasiswa menarik untuk diikuti siswa                                      |  |  |  |  |
| 25.                                                | Mahasiswa menjelaskan urutan kegiatan sebelum pembelajaran di setiap pertemuan                         |  |  |  |  |
| 26.                                                | Mahasiswa dapat menjaga suasana jalannya pembelajaran                                                  |  |  |  |  |
| 27.                                                | Mahasiswa mengajar secara bervariasi (klasikal, individu, maupun kerja kelompok)                       |  |  |  |  |
| 28.                                                | Mahasiswa mengarahkan siswa yang merasa kurang jelas dalam jalannya pembelajaran                       |  |  |  |  |
| <b>Keterampilan Mengadakan Variasi</b>             |                                                                                                        |  |  |  |  |
| 29.                                                | Mahasiswa memberikan waktu diam/senyap sejenak untuk mendapatkan perhatian siswa                       |  |  |  |  |
| 30.                                                | Mahasiswa bergerak secara dinamis dalam mengajar (tidak diam ditempat)                                 |  |  |  |  |
| 31.                                                | Mahasiswa menggunakan sumber belajar yang bervariasi (buku, internet, lingkungan sekitar, dll)         |  |  |  |  |
| 32.                                                | Mahasiswa mendorong siswa untuk membantu temannya yang kesulitan dalam pembelajaran                    |  |  |  |  |
| 33.                                                | Mahasiswa mengajak siswa untuk berpartisipasi memberikan ide dalam pelajaran yang akan dilakukan       |  |  |  |  |
| 34.                                                | Mahasiswa memberikan pujian kepada siswa yang                                                          |  |  |  |  |

|                                        |                                                                                                                                              |  |  |  |  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|                                        | aktif dalam kegiatan pembelajaran                                                                                                            |  |  |  |  |
| <b>Keterampilan Membimbing Diskusi</b> |                                                                                                                                              |  |  |  |  |
| 35.                                    | Mahasiswa menjelaskan tujuan dari diskusi sebelum memulai                                                                                    |  |  |  |  |
| 36.                                    | Mahasiswa memberikan tambahan informasi saat siswa sedang berdiskusi untuk membantu siswa                                                    |  |  |  |  |
| 37.                                    | Mahasiswa menghargai tanggapan siswa terkait dengan informasi yang diberikan                                                                 |  |  |  |  |
| 38.                                    | Mahasiswa memberikan pertanyaan yang menarik untuk dijawab siswa yang sedang berdiskusi                                                      |  |  |  |  |
| 39.                                    | Mahasiswa berkeliling mengecek progress tiap kelompok                                                                                        |  |  |  |  |
| 40.                                    | Mahasiswa memberikan kesimpulan dari materi di akhir diskusi                                                                                 |  |  |  |  |
| <b>Keterampilan Mengelola Kelas</b>    |                                                                                                                                              |  |  |  |  |
| 41.                                    | Mahasiswa menegur individu maupun kelompok siswa yang membuat suasana menjadi ramai / gaduh.                                                 |  |  |  |  |
| 42.                                    | Mahasiswa mampu menangani konflik dan masalah yang timbul / mengembalikan kondisi belajar yang tenang                                        |  |  |  |  |
| <b>Keterampilan Bertanya</b>           |                                                                                                                                              |  |  |  |  |
| 43.                                    | Mahasiswa memberikan pertanyaan dengan jelas dan tidak berbelit-belit                                                                        |  |  |  |  |
| 44.                                    | Pertanyaan yang diajukan oleh mahasiswa menarik untuk dijawab                                                                                |  |  |  |  |
| 45.                                    | Sebelum memberikan pertanyaan, mahasiswa memberikan penjelasan singkat mengenai informasi yang sesuai dengan jawaban yang diharapkan (acuan) |  |  |  |  |
| 46.                                    | Mahasiswa memusatkan pertanyaan pada seluruh siswa agar menjawab bersama-sama                                                                |  |  |  |  |
| 47.                                    | Mahasiswa memindahkan giliran untuk menjawab pertanyaan kepada siswa lain jika siswa sebelumnya                                              |  |  |  |  |

|                                  |                                                                                                                                                       |  |  |  |  |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|                                  | kesulitan menjawab                                                                                                                                    |  |  |  |  |
| 48.                              | Mahasiswa membebaskan siapapun siswa yang ingin menjawab (tidak menunjuk)                                                                             |  |  |  |  |
| 49.                              | Mahasiswa memberikan waktu berpikir siswa untuk menjawab pertanyaan                                                                                   |  |  |  |  |
| 50.                              | Mahasiswa membantu siswa yang kesulitan untuk menjawab pertanyaan dengan memberi pengarahannya atau acuan                                             |  |  |  |  |
| 51.                              | Mahasiswa memberikan pertanyaan yang mudah dimengerti siswa                                                                                           |  |  |  |  |
| 52.                              | Mahasiswa memberikan pertanyaan lain jika siswa kesulitan menjawab                                                                                    |  |  |  |  |
| 53.                              | Mahasiswa mengarahkan kembali ke pertanyaan yang lebih mudah untuk dijawab                                                                            |  |  |  |  |
| 54.                              | Mahasiswa membantu siswa yang kesulitan untuk menjawab pertanyaan dengan memberi pertanyaan yang mengacu pada jawaban                                 |  |  |  |  |
| 55.                              | Mahasiswa memberikan penjelasan terhadap masing-masing jawaban siswa dan mengarahkan kepada jawaban yang lebih tepat                                  |  |  |  |  |
| 56.                              | Mahasiswa memberikan waktu siswa untuk menjelaskan jawabannya                                                                                         |  |  |  |  |
| 57.                              | Pertanyaan yang diajukan mahasiswa membuat saya (siswa) lebih memahami materi yang diberikan                                                          |  |  |  |  |
| <b>Keterampilan Mengevaluasi</b> |                                                                                                                                                       |  |  |  |  |
| 58.                              | Mahasiswa memberikan tes awal (sebelum masuk penjelasan materi), tes proses (selama pembelajaran berlangsung), dan tes akhir (setelah selesai materi) |  |  |  |  |
| 59.                              | Mahasiswa memberikan tugas yang harus dikumpulkan serta membagikan kembali setelah dinilai                                                            |  |  |  |  |
| 60.                              | Bentuk tugas yang diberikan mahasiswa beragam (pilihan ganda, uraian, tugas deskripsi, dll)                                                           |  |  |  |  |

| <b>Keterampilan Menutup Pelajaran</b> |                                                                                                  |  |  |  |
|---------------------------------------|--------------------------------------------------------------------------------------------------|--|--|--|
| 61.                                   | Mahasiswa mengaitkan materi yang akan dipelajari dengan materi pertemuan sebelumnya              |  |  |  |
| 62.                                   | Mahasiswa menerangkan kembali inti dari materi yang telah dipelajari                             |  |  |  |
| 63.                                   | Mahasiswa membuat kesimpulan/rangkuman terhadap materi yang telah dipelajari                     |  |  |  |
| 64.                                   | Mahasiswa mengaitkan materi yang telah dipelajari dengan materi yang akan dipelajari selanjutnya |  |  |  |
| 65.                                   | Mahasiswa memberikan tugas terkait dengan materi yang diberikan                                  |  |  |  |

Terima Kasih

Lampiran 2.

Uji Validitas dan Reliabilitas Instrumen

**HASIL UJI VALIDITAS ANGKET UJI INSTRUMEN PENELITIAN  
PERSEPSI SISWA TERHADAP KETERAMPILAN MENGAJAR  
MAHASISWA PLT JURUSAN PENDIDIKAN TEKNIK SIPIL DAN  
PERENCANAAN DI SMK NEGERI 1 MAGELANG 2018/2019**

| <b>No Butir</b> | <b>Pearson Correlation</b> | <b>rTabel</b> | <b>Ket</b>  |
|-----------------|----------------------------|---------------|-------------|
| 1               | 0.081                      | 0.396         | tidak valid |
| 2               | 0.441                      | 0.396         | valid       |
| 3               | 0.538                      | 0.396         | valid       |
| 4               | 0.689                      | 0.396         | valid       |
| 5               | 0.658                      | 0.396         | valid       |
| 6               | 0.637                      | 0.396         | valid       |
| 7               | 0.503                      | 0.396         | valid       |
| 8               | 0.545                      | 0.396         | valid       |
| 9               | 0.654                      | 0.396         | valid       |
| 10              | 0.746                      | 0.396         | valid       |
| 11              | 0.939                      | 0.396         | valid       |
| 12              | 0.463                      | 0.396         | valid       |
| 13              | 0.769                      | 0.396         | valid       |
| 14              | 0.631                      | 0.396         | valid       |
| 15              | 0.681                      | 0.396         | valid       |
| 16              | 0.578                      | 0.396         | valid       |
| 17              | 0.483                      | 0.396         | valid       |
| 18              | 0.647                      | 0.396         | valid       |
| 19              | 0.233                      | 0.396         | tidak valid |
| 20              | 0.665                      | 0.396         | valid       |
| 21              | 0.622                      | 0.396         | valid       |
| 22              | 0.279                      | 0.396         | tidak valid |
| 23              | 0.577                      | 0.396         | valid       |
| 24              | 0.234                      | 0.396         | tidak valid |
| 25              | 0.273                      | 0.396         | tidak valid |
| 26              | 0.587                      | 0.396         | valid       |
| 27              | 0.162                      | 0.396         | tidak valid |
| 28              | 0.155                      | 0.396         | tidak valid |
| 29              | 0.84                       | 0.396         | valid       |
| 30              | 0.404                      | 0.396         | valid       |
| 31              | 0.042                      | 0.396         | tidak valid |
| 32              | 0.422                      | 0.396         | valid       |
| 33              | 0.45                       | 0.396         | valid       |

|    |       |       |             |
|----|-------|-------|-------------|
| 34 | 0.272 | 0.396 | tidak valid |
| 35 | 0.216 | 0.396 | tidak valid |
| 36 | 0.553 | 0.396 | valid       |
| 37 | 0.603 | 0.396 | valid       |
| 38 | 0.747 | 0.396 | valid       |
| 39 | 0.683 | 0.396 | valid       |
| 40 | 0.445 | 0.396 | valid       |
| 41 | 0.596 | 0.396 | valid       |
| 42 | 0.717 | 0.396 | valid       |
| 43 | 0.251 | 0.396 | tidak valid |
| 44 | 0.361 | 0.396 | tidak valid |
| 45 | 0.646 | 0.396 | valid       |
| 46 | 0.553 | 0.396 | valid       |
| 47 | 0.364 | 0.396 | tidak valid |
| 48 | 0.683 | 0.396 | valid       |
| 49 | 0.783 | 0.396 | valid       |
| 50 | 0.905 | 0.396 | valid       |
| 51 | 0.845 | 0.396 | valid       |
| 52 | 0.58  | 0.396 | valid       |
| 53 | 0.757 | 0.396 | valid       |
| 54 | 0.812 | 0.396 | valid       |
| 55 | 0.852 | 0.396 | valid       |
| 56 | 0.765 | 0.396 | valid       |
| 57 | 0.602 | 0.396 | valid       |
| 58 | 0.704 | 0.396 | valid       |
| 59 | 0.609 | 0.396 | valid       |
| 60 | 0.609 | 0.396 | valid       |
| 61 | 0.285 | 0.396 | tidak valid |
| 62 | 0.719 | 0.396 | valid       |
| 63 | 0.602 | 0.396 | valid       |
| 64 | 0.332 | 0.396 | tidak valid |
| 65 | 0.631 | 0.396 | valid       |

**HASIL Uji RELIABILITAS ANGKET Uji INSTRUMEN PENELITIAN  
PERSEPSI SISWA TERHADAP KETERAMPILAN MENGAJAR  
MAHASISWA PLT JURUSAN PENDIDIKAN TEKNIK SIPIL DAN  
PERENCANAAN DI SMK NEGERI 1 MAGELANG 2018/2019**

**Scale: ALL VARIABLES**

**Case Processing Summary**

|       |                       | N  | %     |
|-------|-----------------------|----|-------|
| Cases | Valid                 | 25 | 100.0 |
|       | Excluded <sup>a</sup> | 0  | .0    |
|       | Total                 | 25 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .962             | 65         |

**Item-Total Statistics**

|         | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
|---------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| item_1  | 184.32                     | 271.143                        | -.103                            | .963                             |
| item_2  | 184.20                     | 263.583                        | .418                             | .962                             |
| item_3  | 184.52                     | 262.177                        | .518                             | .962                             |
| item_4  | 184.56                     | 259.090                        | .672                             | .961                             |
| item_5  | 184.32                     | 262.060                        | .645                             | .961                             |
| item_6  | 184.56                     | 259.923                        | .619                             | .961                             |
| item_7  | 184.48                     | 263.427                        | .484                             | .962                             |
| item_8  | 184.48                     | 264.927                        | .532                             | .962                             |
| item_9  | 185.20                     | 258.667                        | .634                             | .961                             |
| item_10 | 184.40                     | 258.167                        | .732                             | .961                             |
| item_11 | 184.32                     | 255.643                        | .936                             | .960                             |
| item_12 | 184.52                     | 267.010                        | .453                             | .962                             |
| item_13 | 185.16                     | 254.557                        | .753                             | .961                             |
| item_14 | 184.60                     | 261.083                        | .615                             | .961                             |
| item_15 | 185.28                     | 261.043                        | .667                             | .961                             |

|         |        |         |       |      |
|---------|--------|---------|-------|------|
| item_16 | 184.36 | 263.823 | .564  | .962 |
| item_17 | 185.28 | 259.293 | .449  | .962 |
| item_18 | 185.12 | 255.610 | .621  | .961 |
| item_19 | 184.60 | 266.833 | .208  | .963 |
| item_20 | 185.04 | 256.207 | .642  | .961 |
| item_21 | 184.44 | 260.923 | .605  | .961 |
| item_22 | 184.40 | 266.500 | .257  | .962 |
| item_23 | 184.40 | 262.583 | .561  | .962 |
| item_24 | 184.56 | 267.090 | .211  | .962 |
| item_25 | 184.72 | 266.293 | .248  | .962 |
| item_26 | 185.04 | 257.873 | .561  | .962 |
| item_27 | 184.64 | 268.157 | .140  | .963 |
| item_28 | 184.52 | 271.927 | -.176 | .963 |
| item_29 | 184.44 | 257.673 | .831  | .961 |
| item_30 | 184.92 | 260.410 | .363  | .963 |
| item_31 | 184.36 | 270.573 | -.062 | .963 |
| item_32 | 184.48 | 264.510 | .402  | .962 |
| item_33 | 184.56 | 264.257 | .430  | .962 |
| item_34 | 184.56 | 266.590 | .250  | .962 |
| item_35 | 184.64 | 267.490 | .194  | .962 |
| item_36 | 184.48 | 262.760 | .535  | .962 |
| item_37 | 184.52 | 263.177 | .589  | .962 |
| item_38 | 184.44 | 261.507 | .738  | .961 |
| item_39 | 184.44 | 260.007 | .668  | .961 |
| item_40 | 185.12 | 262.027 | .416  | .962 |
| item_41 | 184.40 | 262.333 | .580  | .962 |
| item_42 | 184.52 | 259.510 | .703  | .961 |
| item_43 | 184.60 | 266.583 | .225  | .963 |
| item_44 | 184.56 | 265.423 | .340  | .962 |
| item_45 | 184.48 | 261.510 | .631  | .961 |
| item_46 | 184.48 | 262.760 | .535  | .962 |
| item_47 | 184.52 | 265.927 | .346  | .962 |
| item_48 | 184.40 | 257.500 | .664  | .961 |
| item_49 | 184.48 | 259.677 | .773  | .961 |
| item_50 | 184.40 | 255.583 | .899  | .960 |
| item_51 | 184.44 | 257.590 | .837  | .961 |
| item_52 | 185.04 | 258.040 | .552  | .962 |
| item_53 | 184.44 | 261.507 | .738  | .961 |
| item_54 | 184.40 | 259.500 | .803  | .961 |
| item_55 | 184.40 | 254.333 | .842  | .960 |

|         |        |         |      |      |
|---------|--------|---------|------|------|
| item_56 | 185.08 | 252.743 | .746 | .961 |
| item_57 | 184.40 | 262.250 | .587 | .961 |
| item_58 | 185.08 | 254.160 | .681 | .961 |
| item_59 | 184.48 | 262.010 | .593 | .961 |
| item_60 | 184.48 | 262.010 | .593 | .961 |
| item_61 | 184.52 | 266.843 | .265 | .962 |
| item_62 | 184.44 | 261.840 | .708 | .961 |
| item_63 | 184.56 | 262.257 | .586 | .962 |
| item_64 | 184.52 | 265.260 | .307 | .962 |
| item_65 | 184.60 | 261.083 | .615 | .961 |

Lampiran 3.

Instrumen Penelitian

## ANGKET PENELITIAN

### PERSEPSI SISWA TERHADAP KETERAMPILAN MENGAJAR MAHASISWA PLT JURUSAN PENDIDIKAN TEKNIK SIPIL DAN PERENCANAAN DI SMK NEGERI 1 MAGELANG 2018/2019

#### III. PETUNJUK PENGISIAN

6. Sebelum mengisi jawaban, isilah terlebih dahulu identitas anda.
7. Bacalah setiap butir pertanyaan secara teliti sebelum memberi jawaban
8. Berilah tanda *checklist* (✓) pada kolom alternatif jawaban sesuai dengan pilihan anda, dengan keterangan sebagai berikut:

SS = Sangat Setuju

S = Setuju

KS = Kurang Setuju

TS = Tidak Setuju

9. Jawablah setiap butir pertanyaan sesuai dengan yang Saudara alami.

10. Periksa kembali identitas sebelum menyerahkan angket ini.

#### IV. IDENTITAS RESPONDEN

Nama : .....

Kelas : .....

No. Absen : .....

| No                             | Pertanyaan                                                              | Jawaban |   |    |    |
|--------------------------------|-------------------------------------------------------------------------|---------|---|----|----|
|                                |                                                                         | SS      | S | KS | TS |
| Keterampilan Membuka Pelajaran |                                                                         |         |   |    |    |
| 1.                             | Mahasiswa bersikap hangat dalam berinteraksi dengan siswa               |         |   |    |    |
| 2.                             | Mahasiswa PPL mengemukakan kegiatan pembelajaran yang akan dilaksanakan |         |   |    |    |
| 3.                             | Mahasiswa mengaitkan peristiwa aktual dengan materi yang disampaikan    |         |   |    |    |
| Keterampilan Menjelaskan       |                                                                         |         |   |    |    |
| 4.                             | Contoh yang dijelaskan mahasiswa sesuai dengan materi yang dipelajari   |         |   |    |    |

|                                                             |                                                                                                                       |  |  |  |  |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| 5.                                                          | Mahasiswa menjelaskan dengan jelas dan tidak berbelit-belit                                                           |  |  |  |  |
| 6.                                                          | Mahasiswa menjelaskan contoh dengan cara mendemonstrasikan                                                            |  |  |  |  |
| 7.                                                          | Mahasiswa memberikan contoh ilustrasi yang mudah dipahami siswa                                                       |  |  |  |  |
| 8.                                                          | Mahasiswa menggunakan bahasa isyarat dalam menerangkan (mengacungkan jempol, tepuk tangan, menunjuk papan tulis, dll) |  |  |  |  |
| 9.                                                          | Mahasiswa menggunakan bahasa yang baik dan mudah dipahami                                                             |  |  |  |  |
| 10.                                                         | Mahasiswa memberikan penjelasan sampai siswa memahami materi                                                          |  |  |  |  |
| 11.                                                         | Siswa memahami apa yang mahasiswa jelaskan                                                                            |  |  |  |  |
| <b>Keterampilan Memberikan Penguatan</b>                    |                                                                                                                       |  |  |  |  |
| 12.                                                         | Mahasiswa memberikan penguatan verbal (perhatikan ini sangat penting, ya.. benar 100 untuk anda, dll)                 |  |  |  |  |
| 13.                                                         | Mahasiswa memberikan pujian kepada siswa yang menjawab pertanyaan                                                     |  |  |  |  |
| 14.                                                         | Mahasiswa menggunakan mimik / isyarat / gerak badan (contoh: mengacungkan jempol, tepuk tangan)                       |  |  |  |  |
| 15.                                                         | Mahasiswa memusatkan penjelasan kepada siswa secara individu maupun kelompok dengan mendekati/menghampiri             |  |  |  |  |
| 16.                                                         | Mahasiswa mengajak beberapa siswa kedepan untuk mendemonstrasikan materi                                              |  |  |  |  |
| 17.                                                         | Mahasiswa menjelaskan secara kreatif menggunakan benda yang ada di sekitar                                            |  |  |  |  |
| <b>Keterampilan Menggunakan Media dan Alat Pembelajaran</b> |                                                                                                                       |  |  |  |  |
| 18.                                                         | Mahasiswa mengajak siswa untuk menggunakan alat pembelajaran yang ada (alat praktik, alat peraga, dll)                |  |  |  |  |
| 19.                                                         | Mahasiswa menerangkan materi dengan cara presentasi (powerpoint)                                                      |  |  |  |  |

|                                                    |                                                                                                       |  |  |  |  |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|--|--|--|
| 20.                                                | Mahasiswa menjelaskan materi menggunakan alat pembelajaran                                            |  |  |  |  |
| <b>Keterampilan Menyusun Skenario Pembelajaran</b> |                                                                                                       |  |  |  |  |
| 21.                                                | Mahasiswa dapat menjaga suasana jalannya pembelajaran                                                 |  |  |  |  |
| <b>Keterampilan Mengadakan Variasi</b>             |                                                                                                       |  |  |  |  |
| 22.                                                | Mahasiswa memberikan waktu diam/senyap sejenak untuk mendapatkan perhatian siswa                      |  |  |  |  |
| 23.                                                | Mahasiswa bergerak secara dinamis dalam mengajar (tidak diam ditempat)                                |  |  |  |  |
| 24.                                                | Mahasiswa mendorong siswa untuk membantu temannya yang kesulitan dalam pembelajaran                   |  |  |  |  |
| 25.                                                | Mahasiswa mengajak siswa untuk berpartisipasi memberikan ide dalam pelajaran yang akan dilakukan      |  |  |  |  |
| <b>Keterampilan Membimbing Diskusi</b>             |                                                                                                       |  |  |  |  |
| 26.                                                | Mahasiswa memberikan tambahan informasi saat siswa sedang berdiskusi untuk membantu siswa             |  |  |  |  |
| 27.                                                | Mahasiswa menghargai tanggapan siswa terkait dengan informasi yang diberikan                          |  |  |  |  |
| 28.                                                | Mahasiswa memberikan pertanyaan yang menarik untuk dijawab siswa yang sedang berdiskusi               |  |  |  |  |
| 29.                                                | Mahasiswa berkeliling mengecek progress tiap kelompok                                                 |  |  |  |  |
| 30.                                                | Mahasiswa memberikan kesimpulan dari materi di akhir diskusi                                          |  |  |  |  |
| <b>Keterampilan Mengelola Kelas</b>                |                                                                                                       |  |  |  |  |
| 31.                                                | Mahasiswa menegur individu maupun kelompok siswa yang membuat suasana menjadi ramai / gaduh.          |  |  |  |  |
| 32.                                                | Mahasiswa mampu menangani konflik dan masalah yang timbul / mengembalikan kondisi belajar yang tenang |  |  |  |  |
| <b>Keterampilan Bertanya</b>                       |                                                                                                       |  |  |  |  |
| 33.                                                | Sebelum memberikan pertanyaan, mahasiswa                                                              |  |  |  |  |

|                                  |                                                                                                                                                       |  |  |  |  |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|                                  | memberikan penjelasan singkat mengenai informasi yang sesuai dengan jawaban yang diharapkan (acuan)                                                   |  |  |  |  |
| 34.                              | Mahasiswa memusatkan pertanyaan pada seluruh siswa agar menjawab bersama-sama                                                                         |  |  |  |  |
| 35.                              | Mahasiswa membebaskan siapapun siswa yang ingin menjawab (tidak menunjuk)                                                                             |  |  |  |  |
| 36.                              | Mahasiswa memberikan waktu berpikir siswa untuk menjawab pertanyaan                                                                                   |  |  |  |  |
| 37.                              | Mahasiswa membantu siswa yang kesulitan untuk menjawab pertanyaan dengan memberi pengarahan atau acuan                                                |  |  |  |  |
| 38.                              | Mahasiswa memberikan pertanyaan yang mudah dimengerti siswa                                                                                           |  |  |  |  |
| 39.                              | Mahasiswa memberikan pertanyaan lain jika siswa kesulitan menjawab                                                                                    |  |  |  |  |
| 40.                              | Mahasiswa mengarahkan kembali ke pertanyaan yang lebih mudah untuk dijawab                                                                            |  |  |  |  |
| 41.                              | Mahasiswa membantu siswa yang kesulitan untuk menjawab pertanyaan dengan memberi pertanyaan yang mengacu pada jawaban                                 |  |  |  |  |
| 42.                              | Mahasiswa memberikan penjelasan terhadap masing-masing jawaban siswa dan mengarahkan kepada jawaban yang lebih tepat                                  |  |  |  |  |
| 43.                              | Mahasiswa memberikan waktu siswa untuk menjelaskan jawabannya                                                                                         |  |  |  |  |
| 44.                              | Pertanyaan yang diajukan mahasiswa membuat saya (siswa) lebih memahami materi yang diberikan                                                          |  |  |  |  |
| <b>Keterampilan Mengevaluasi</b> |                                                                                                                                                       |  |  |  |  |
| 45.                              | Mahasiswa memberikan tes awal (sebelum masuk penjelasan materi), tes proses (selama pembelajaran berlangsung), dan tes akhir (setelah selesai materi) |  |  |  |  |
| 46.                              | Mahasiswa memberikan tugas yang harus                                                                                                                 |  |  |  |  |

|                                       |                                                                                             |  |  |  |  |
|---------------------------------------|---------------------------------------------------------------------------------------------|--|--|--|--|
|                                       | dikumpulkan serta membagikan kembali setelah dinilai                                        |  |  |  |  |
| 47.                                   | Bentuk tugas yang diberikan mahasiswa beragam (pilihan ganda, uraian, tugas deskripsi, dll) |  |  |  |  |
| <b>Keterampilan Menutup Pelajaran</b> |                                                                                             |  |  |  |  |
| 48.                                   | Mahasiswa menerangkan kembali inti dari materi yang telah dipelajari                        |  |  |  |  |
| 49.                                   | Mahasiswa membuat kesimpulan/rangkuman terhadap materi yang telah dipelajari                |  |  |  |  |
| 50.                                   | Mahasiswa memberikan tugas terkait dengan materi yang diberikan                             |  |  |  |  |

Terima Kasih

Lampiran 4.

Data Hasil Penelitian

**SKOR BUTIR ANGKET PENELITIAN**  
**NOMOR SOAL 1-25**

| NO<br>RES | NOMOR SOAL |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------|------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|           | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 1         | 3          | 3 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 3  | 3  | 2  | 3  | 3  | 3  | 2  | 2  | 3  | 3  | 2  | 3  | 3  | 3  | 3  | 3  |
| 2         | 3          | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 4  | 4  | 3  | 4  | 3  | 4  | 3  | 3  | 3  | 4  | 3  | 3  | 4  | 3  | 3  | 4  |
| 3         | 4          | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4  | 3  | 3  | 4  | 4  | 4  | 2  | 3  | 3  | 4  | 3  | 4  | 3  | 4  | 4  | 3  |
| 4         | 2          | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3  | 3  | 2  | 2  | 2  | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 2  |
| 5         | 4          | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 3  | 1  | 4  | 1  | 3  | 2  | 2  | 4  | 1  | 3  | 4  | 1  | 4  | 2  | 4  | 2  |
| 6         | 4          | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3  | 3  | 2  | 3  | 3  | 4  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 3  | 3  |
| 7         | 4          | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3  | 3  | 2  | 3  | 3  | 3  | 2  | 2  | 3  | 3  | 3  | 2  | 2  | 3  | 3  | 2  |
| 8         | 3          | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3  | 3  | 2  | 3  | 3  | 2  | 2  | 2  | 3  | 2  | 1  | 3  | 1  | 3  | 3  | 2  |
| 9         | 4          | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 4 | 3  | 3  | 1  | 2  | 1  | 2  | 2  | 2  | 2  | 2  | 2  | 3  | 3  | 4  | 4  | 3  |
| 10        | 4          | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3  | 3  | 2  | 3  | 3  | 3  | 2  | 3  | 4  | 3  | 3  | 4  | 3  | 4  | 3  | 3  |
| 11        | 3          | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
| 12        | 3          | 3 | 4 | 4 | 3 | 3 | 3 | 2 | 3 | 2  | 3  | 3  | 4  | 3  | 3  | 3  | 4  | 3  | 2  | 3  | 3  | 3  | 3  | 4  | 3  |
| 13        | 4          | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 4  | 4  | 3  | 3  | 3  | 4  | 3  | 3  | 4  | 2  | 3  | 3  | 3  | 4  | 4  | 3  |
| 14        | 4          | 4 | 4 | 4 | 3 | 3 | 2 | 3 | 3 | 4  | 3  | 3  | 3  | 3  | 3  | 2  | 3  | 4  | 2  | 4  | 3  | 3  | 4  | 4  | 3  |
| 15        | 4          | 4 | 4 | 3 | 4 | 3 | 4 | 1 | 4 | 4  | 3  | 4  | 3  | 3  | 4  | 3  | 3  | 4  | 3  | 3  | 4  | 4  | 3  | 4  | 3  |
| 16        | 4          | 3 | 3 | 4 | 4 | 3 | 4 | 2 | 3 | 3  | 4  | 4  | 4  | 3  | 3  | 3  | 4  | 4  | 3  | 3  | 3  | 4  | 4  | 4  | 4  |
| 17        | 3          | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3  | 3  | 3  | 3  | 3  | 3  | 2  | 2  | 2  | 2  | 2  | 2  | 3  | 3  | 3  | 3  |
| 18        | 3          | 3 | 2 | 3 | 3 | 4 | 3 | 2 | 3 | 3  | 3  | 2  | 3  | 2  | 4  | 2  | 2  | 3  | 2  | 3  | 3  | 3  | 3  | 3  | 2  |
| 19        | 4          | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 3  | 4  | 3  | 4  | 4  | 4  | 4  | 3  | 4  | 2  | 3  | 4  | 4  | 3  | 4  | 4  |

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 |
| 21 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 3 | 1 | 3 | 3 | 3 | 3 |
| 22 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 |
| 23 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 4 |
| 24 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 |
| 25 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 2 | 3 | 3 | 3 |
| 26 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 1 | 3 |
| 27 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 28 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 1 | 3 |
| 29 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 4 |
| 30 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 |
| 31 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 32 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 33 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 |
| 34 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 |
| 35 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 4 |
| 36 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 37 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 3 | 4 |
| 38 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 3 |
| 39 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 3 |
| 40 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 |
| 41 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 42 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 43 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 44 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 4 |

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 4 |
| 46 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 |
| 47 | 3 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |
| 48 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 49 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 2 |
| 50 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 2 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 |
| 51 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 52 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 |
| 53 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 |
| 54 | 2 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 |
| 55 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 4 |
| 56 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 3 |
| 57 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 |
| 58 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 |
| 59 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 |
| 60 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 |
| 61 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 2 | 4 | 4 |
| 62 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |
| 63 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 |
| 64 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 1 | 4 | 4 | 4 | 3 | 4 | 2 | 3 | 2 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 3 |
| 65 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 4 | 3 | 2 | 2 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 4 | 4 |
| 66 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 4 | 3 | 4 | 4 | 3 | 2 | 2 |
| 67 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| 68 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 2 |
| 69 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 2 | 2 | 2 | 3 | 3 |

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 74 | 3 | 3 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 3 | 2 | 2 | 4 | 4 | 4 |
| 75 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 4 | 4 | 2 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 3 |
| 76 | 4 | 2 | 2 | 4 | 4 | 2 | 3 | 3 | 4 | 4 | 4 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 4 | 3 | 2 | 2 | 3 | 3 | 3 |
| 77 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| 78 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 4 | 2 | 3 |
| 79 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| 80 | 3 | 4 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 4 | 4 | 4 |
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| 83 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 4 | 3 | 3 |
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| 85 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 |
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| 87 | 3 | 3 | 3 | 4 | 2 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3 |
| 88 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 3 |
| 89 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 3 |
| 90 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 91 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | 4 | 3 | 4 |
| 92 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 |
| 93 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| 94 | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 4 |

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95  | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 4 |
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| 97  | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 4 | 2 | 3 | 3 | 3 |
| 98  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 2 | 4 | 4 | 3 |
| 99  | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 3 |
| 100 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| 101 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 4 |
| 102 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| 103 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| 104 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| 105 | 4 | 4 | 3 | 4 | 3 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 |
| 106 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| 107 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 4 |
| 108 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 |
| 109 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 |
| 110 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |
| 111 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 4 |
| 112 | 4 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 |
| 113 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 |
| 114 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 115 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 |
| 116 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 117 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 118 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 1 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 119 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 2 | 4 | 3 | 3 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 120 | 3   | 3   | 3   | 4   | 4   | 3   | 4   | 3   | 3   | 3   | 4   | 3   | 3   | 2   | 3   | 3   | 4   | 4   | 4   | 4   | 4   | 3   | 2   | 2   | 3   |
| 121 | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 2   | 2   | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 3   |
| 122 | 3   | 3   | 3   | 3   | 3   | 3   | 4   | 3   | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 2   | 3   | 4   | 3   |
| 123 | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| 124 | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 2   | 3   | 3   |
| 125 | 4   | 3   | 3   | 3   | 3   | 4   | 4   | 3   | 4   | 3   | 3   | 3   | 4   | 4   | 4   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| 126 | 3   | 3   | 3   | 4   | 3   | 2   | 3   | 2   | 4   | 3   | 3   | 4   | 2   | 3   | 2   | 2   | 3   | 1   | 3   | 3   | 2   | 2   | 3   | 3   | 3   |
| 127 | 3   | 4   | 3   | 4   | 2   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 4   | 3   | 3   | 2   | 3   | 3   | 4   | 3   |
| 128 | 3   | 4   | 3   | 3   | 4   | 4   | 4   | 4   | 4   | 3   | 3   | 4   | 4   | 4   | 3   | 4   | 4   | 3   | 4   | 3   | 2   | 2   | 3   | 3   | 3   |
| 129 | 4   | 3   | 3   | 3   | 1   | 4   | 1   | 3   | 4   | 3   | 3   | 3   | 4   | 4   | 4   | 1   | 1   | 1   | 1   | 1   | 2   | 4   | 4   | 2   | 2   |
| 130 | 3   | 3   | 3   | 3   | 4   | 3   | 4   | 2   | 4   | 4   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 4   | 3   | 3   | 2   | 4   | 3   | 3   |
| JML | 445 | 431 | 399 | 431 | 413 | 397 | 413 | 374 | 442 | 422 | 414 | 388 | 414 | 397 | 425 | 381 | 400 | 420 | 404 | 402 | 396 | 380 | 428 | 421 | 407 |

**SKOR BUTIR ANGKET PENELITIAN**  
**NOMOR SOAL 26-50**

| NO<br>RES | NOMOR SOAL |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|           | 26         | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 1         | 3          | 3  | 3  | 3  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 2  | 3  | 3  | 2  | 3  | 3  | 3  | 2  | 3  |
| 2         | 4          | 3  | 4  | 3  | 4  | 3  | 3  | 3  | 3  | 4  | 3  | 4  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 2  | 3  | 4  | 3  | 3  | 3  |
| 3         | 3          | 4  | 2  | 4  | 3  | 3  | 4  | 3  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 2  | 4  | 3  | 3  | 4  | 2  |
| 4         | 3          | 2  | 3  | 2  | 3  | 3  | 3  | 3  | 3  | 2  | 3  | 2  | 2  | 3  | 4  | 3  | 4  | 4  | 3  | 2  | 3  | 3  | 4  | 4  | 4  |
| 5         | 2          | 1  | 1  | 3  | 3  | 1  | 3  | 3  | 2  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 2  | 2  | 2  | 4  | 4  | 4  |
| 6         | 3          | 3  | 2  | 3  | 3  | 3  | 3  | 4  | 3  | 3  | 3  | 4  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 3  | 3  |
| 7         | 3          | 4  | 3  | 3  | 2  | 3  | 2  | 4  | 3  | 3  | 3  | 4  | 3  | 2  | 3  | 3  | 2  | 3  | 3  | 2  | 3  | 2  | 3  | 3  | 3  |
| 8         | 3          | 2  | 3  | 3  | 2  | 3  | 4  | 3  | 2  | 3  | 3  | 3  | 2  | 3  | 3  | 4  | 3  | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  |
| 9         | 3          | 4  | 3  | 4  | 4  | 2  | 4  | 3  | 2  | 4  | 3  | 4  | 4  | 2  | 2  | 3  | 3  | 3  | 4  | 3  | 3  | 1  | 3  | 2  | 1  |
| 10        | 4          | 3  | 4  | 3  | 3  | 4  | 3  | 3  | 4  | 3  | 3  | 4  | 3  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 3  |
| 11        | 3          | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
| 12        | 3          | 3  | 2  | 3  | 3  | 3  | 3  | 4  | 3  | 4  | 4  | 3  | 4  | 3  | 3  | 4  | 4  | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 4  |
| 13        | 4          | 4  | 3  | 4  | 3  | 4  | 3  | 4  | 3  | 4  | 3  | 4  | 4  | 3  | 3  | 4  | 3  | 4  | 4  | 3  | 4  | 3  | 4  | 4  | 4  |
| 14        | 4          | 4  | 4  | 4  | 4  | 3  | 3  | 4  | 3  | 3  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 4  | 4  | 4  |
| 15        | 4          | 4  | 3  | 3  | 4  | 4  | 4  | 4  | 3  | 4  | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 3  | 3  | 2  | 3  | 3  | 4  | 4  | 4  |
| 16        | 3          | 3  | 3  | 3  | 3  | 4  | 4  | 4  | 3  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 4  | 4  | 3  | 2  | 3  | 3  | 3  | 3  |
| 17        | 3          | 3  | 3  | 3  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 2  | 3  | 3  | 2  | 3  | 3  | 3  | 2  | 3  |
| 18        | 3          | 3  | 2  | 4  | 4  | 4  | 4  | 2  | 3  | 3  | 4  | 4  | 4  | 3  | 4  | 3  | 2  | 3  | 1  | 4  | 3  | 4  | 3  | 3  | 3  |
| 19        | 3          | 4  | 3  | 3  | 2  | 3  | 4  | 3  | 2  | 4  | 3  | 3  | 2  | 3  | 3  | 3  | 3  | 4  | 4  | 3  | 3  | 3  | 2  | 2  | 3  |

[illegible]

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 3 |
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| 47 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 3 |
| 48 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 |
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| 59 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
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| 68 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| 69 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 4 | 3 | 4 | 4 |

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 3 | 2 | 2 | 4 | 3 | 3 | 2 | 3 |
| 71 | 4 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 4 | 2 | 2 | 3 |
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| 80 | 3 | 3 | 4 | 3 | 2 | 2 | 2 | 4 | 3 | 2 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 81 | 2 | 4 | 2 | 4 | 3 | 4 | 2 | 4 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 1 | 1 | 1 | 1 | 4 |
| 82 | 3 | 3 | 2 | 4 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 4 | 2 | 2 | 3 | 3 | 2 | 4 | 4 |
| 83 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 2 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 |
| 84 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 |
| 85 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| 86 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| 87 | 4 | 4 | 2 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 2 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 |
| 88 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 2 | 4 | 4 | 3 | 4 | 3 |
| 89 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 |
| 90 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 91 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 |
| 92 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 2 | 2 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 4 |
| 93 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 |
| 94 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 |

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95  | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 4 |
| 96  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 |
| 97  | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 2 | 4 | 4 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 |
| 98  | 4 | 4 | 3 | 4 | 3 | 1 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 4 |
| 99  | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 2 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 1 | 3 | 4 | 4 | 3 | 2 |
| 100 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 |
| 101 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 |
| 102 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| 103 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 3 | 4 | 4 | 4 |
| 104 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 |
| 105 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 |
| 106 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| 107 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 1 | 3 | 3 | 3 | 4 | 3 |
| 108 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| 109 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 3 |
| 110 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 111 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| 112 | 3 | 3 | 2 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 2 | 3 | 4 | 3 |
| 113 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 3 |
| 114 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 115 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| 116 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 117 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 |
| 118 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 2 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 |
| 119 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 120 | 3   | 3   | 3   | 3   | 4   | 2   | 3   | 4   | 3   | 3   | 3   | 4   | 4   | 3   | 3   | 4   | 4   | 3   | 4   | 3   | 3   | 3   | 4   | 4   | 3   |
| 121 | 3   | 3   | 2   | 3   | 3   | 2   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 3   |
| 122 | 3   | 4   | 3   | 4   | 3   | 3   | 2   | 3   | 4   | 4   | 4   | 4   | 4   | 4   | 3   | 4   | 4   | 4   | 4   | 3   | 3   | 4   | 3   | 3   | 3   |
| 123 | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| 124 | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 2   | 2   | 3   | 2   |
| 125 | 3   | 3   | 3   | 3   | 4   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| 126 | 4   | 3   | 2   | 2   | 3   | 3   | 2   | 3   | 2   | 3   | 4   | 4   | 2   | 3   | 3   | 3   | 2   | 2   | 3   | 2   | 3   | 3   | 3   | 3   | 2   |
| 127 | 3   | 3   | 3   | 3   | 3   | 3   | 2   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| 128 | 4   | 3   | 3   | 4   | 4   | 3   | 2   | 3   | 3   | 2   | 2   | 3   | 3   | 2   | 3   | 3   | 3   | 3   | 3   | 4   | 3   | 2   | 3   | 3   | 3   |
| 129 | 4   | 4   | 4   | 3   | 3   | 4   | 4   | 4   | 4   | 3   | 3   | 3   | 4   | 4   | 4   | 3   | 3   | 3   | 4   | 4   | 3   | 3   | 2   | 2   | 4   |
| 130 | 3   | 4   | 3   | 3   | 3   | 4   | 3   | 3   | 2   | 3   | 4   | 3   | 4   | 3   | 3   | 3   | 4   | 3   | 3   | 3   | 3   | 3   | 4   | 4   | 3   |
| JML | 419 | 430 | 388 | 419 | 409 | 400 | 400 | 418 | 399 | 418 | 425 | 428 | 416 | 398 | 413 | 409 | 417 | 419 | 410 | 354 | 401 | 399 | 415 | 413 | 421 |

### SKOR PER SUB-VARIABEL KETERAMPILAN MENGAJAR

| NO<br>RES | SUB VARIABEL |    |    |    |   |    |    |   |    |    |    |
|-----------|--------------|----|----|----|---|----|----|---|----|----|----|
|           | 1            | 2  | 3  | 4  | 5 | 6  | 7  | 8 | 9  | 10 | 11 |
| 1         | 8            | 18 | 15 | 8  | 3 | 12 | 14 | 6 | 35 | 8  | 8  |
| 2         | 10           | 26 | 20 | 10 | 3 | 14 | 18 | 6 | 44 | 9  | 9  |
| 3         | 10           | 29 | 20 | 10 | 4 | 14 | 16 | 7 | 45 | 9  | 9  |
| 4         | 8            | 23 | 13 | 9  | 3 | 11 | 13 | 6 | 36 | 8  | 12 |
| 5         | 10           | 25 | 16 | 8  | 1 | 12 | 10 | 4 | 45 | 6  | 12 |
| 6         | 10           | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 7         | 10           | 21 | 15 | 9  | 2 | 10 | 15 | 5 | 36 | 7  | 9  |
| 8         | 8            | 21 | 14 | 6  | 3 | 9  | 13 | 7 | 33 | 9  | 9  |
| 9         | 10           | 25 | 10 | 6  | 3 | 14 | 18 | 6 | 37 | 7  | 6  |
| 10        | 10           | 25 | 16 | 10 | 4 | 13 | 17 | 7 | 37 | 9  | 10 |
| 11        | 9            | 25 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 12        | 10           | 23 | 20 | 8  | 3 | 13 | 14 | 6 | 42 | 9  | 12 |
| 13        | 10           | 29 | 19 | 9  | 3 | 14 | 18 | 7 | 43 | 10 | 12 |
| 14        | 12           | 25 | 17 | 10 | 3 | 14 | 20 | 6 | 45 | 10 | 12 |
| 15        | 12           | 26 | 20 | 10 | 4 | 14 | 18 | 8 | 40 | 8  | 12 |
| 16        | 10           | 27 | 21 | 10 | 3 | 16 | 15 | 8 | 43 | 8  | 9  |
| 17        | 8            | 22 | 16 | 6  | 2 | 12 | 14 | 6 | 35 | 8  | 8  |
| 18        | 8            | 24 | 15 | 8  | 3 | 11 | 16 | 8 | 36 | 11 | 9  |
| 19        | 11           | 30 | 22 | 9  | 4 | 15 | 15 | 7 | 37 | 9  | 7  |
| 20        | 10           | 29 | 24 | 12 | 4 | 15 | 17 | 7 | 41 | 9  | 9  |
| 21        | 9            | 29 | 20 | 7  | 3 | 13 | 18 | 8 | 42 | 8  | 9  |
| 22        | 11           | 26 | 16 | 8  | 3 | 12 | 14 | 6 | 33 | 9  | 8  |
| 23        | 11           | 20 | 16 | 10 | 4 | 13 | 17 | 5 | 39 | 7  | 12 |
| 24        | 11           | 30 | 21 | 9  | 3 | 14 | 16 | 6 | 38 | 7  | 8  |
| 25        | 10           | 24 | 18 | 9  | 3 | 13 | 14 | 6 | 38 | 9  | 10 |
| 26        | 12           | 28 | 20 | 11 | 3 | 16 | 16 | 7 | 45 | 10 | 10 |
| 27        | 10           | 30 | 20 | 12 | 3 | 15 | 16 | 7 | 42 | 11 | 11 |
| 28        | 9            | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 29        | 12           | 27 | 19 | 11 | 4 | 16 | 18 | 7 | 43 | 11 | 11 |
| 30        | 11           | 26 | 21 | 9  | 3 | 13 | 15 | 8 | 40 | 10 | 10 |
| 31        | 9            | 26 | 21 | 11 | 4 | 9  | 16 | 3 | 36 | 9  | 9  |
| 32        | 9            | 21 | 16 | 9  | 3 | 11 | 15 | 6 | 35 | 8  | 8  |
| 33        | 11           | 32 | 24 | 12 | 3 | 10 | 20 | 2 | 43 | 3  | 3  |
| 34        | 12           | 32 | 23 | 12 | 4 | 16 | 20 | 8 | 48 | 12 | 12 |
| 35        | 12           | 30 | 23 | 12 | 4 | 15 | 20 | 8 | 48 | 10 | 12 |
| 36        | 9            | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 37        | 9            | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |

|    |    |    |    |    |   |    |    |   |    |    |    |
|----|----|----|----|----|---|----|----|---|----|----|----|
| 38 | 9  | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 39 | 9  | 31 | 20 | 11 | 3 | 14 | 17 | 7 | 43 | 10 | 11 |
| 40 | 12 | 29 | 21 | 11 | 3 | 14 | 19 | 7 | 43 | 10 | 11 |
| 41 | 12 | 32 | 24 | 12 | 4 | 16 | 20 | 8 | 48 | 12 | 12 |
| 42 | 12 | 30 | 23 | 10 | 4 | 14 | 19 | 7 | 46 | 12 | 12 |
| 43 | 10 | 28 | 21 | 10 | 4 | 15 | 20 | 8 | 40 | 10 | 9  |
| 44 | 11 | 28 | 22 | 11 | 4 | 14 | 19 | 7 | 42 | 11 | 10 |
| 45 | 12 | 31 | 24 | 12 | 3 | 13 | 17 | 7 | 44 | 11 | 11 |
| 46 | 9  | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 47 | 9  | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 48 | 9  | 25 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 49 | 12 | 32 | 22 | 12 | 3 | 15 | 18 | 6 | 48 | 12 | 12 |
| 50 | 9  | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 51 | 12 | 29 | 20 | 11 | 3 | 15 | 17 | 7 | 42 | 10 | 10 |
| 52 | 8  | 20 | 15 | 7  | 2 | 11 | 13 | 6 | 34 | 8  | 8  |
| 53 | 10 | 24 | 18 | 10 | 4 | 15 | 17 | 7 | 43 | 10 | 11 |
| 54 | 9  | 24 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 55 | 10 | 27 | 18 | 7  | 3 | 12 | 16 | 6 | 36 | 8  | 10 |
| 56 | 10 | 27 | 20 | 12 | 3 | 15 | 17 | 8 | 39 | 7  | 9  |
| 57 | 8  | 24 | 17 | 9  | 2 | 12 | 17 | 6 | 37 | 10 | 11 |
| 58 | 8  | 22 | 18 | 9  | 3 | 12 | 12 | 4 | 33 | 9  | 7  |
| 59 | 9  | 23 | 14 | 10 | 3 | 9  | 15 | 6 | 33 | 9  | 11 |
| 60 | 8  | 21 | 16 | 10 | 3 | 11 | 9  | 6 | 33 | 8  | 8  |
| 61 | 10 | 29 | 19 | 10 | 3 | 13 | 15 | 5 | 37 | 9  | 11 |
| 62 | 11 | 28 | 17 | 8  | 3 | 12 | 15 | 7 | 39 | 7  | 9  |
| 63 | 10 | 28 | 22 | 10 | 3 | 13 | 16 | 5 | 39 | 8  | 8  |
| 64 | 9  | 25 | 16 | 12 | 3 | 16 | 16 | 6 | 33 | 6  | 9  |
| 65 | 9  | 27 | 19 | 9  | 2 | 14 | 17 | 7 | 38 | 9  | 10 |
| 66 | 12 | 31 | 22 | 10 | 4 | 13 | 20 | 8 | 47 | 9  | 11 |
| 67 | 12 | 30 | 24 | 12 | 4 | 14 | 20 | 8 | 47 | 9  | 12 |
| 68 | 12 | 28 | 20 | 12 | 4 | 15 | 20 | 6 | 47 | 7  | 9  |
| 69 | 8  | 28 | 20 | 10 | 3 | 13 | 17 | 7 | 38 | 12 | 12 |
| 70 | 8  | 22 | 17 | 9  | 3 | 10 | 14 | 6 | 35 | 7  | 9  |
| 71 | 11 | 28 | 20 | 12 | 2 | 13 | 15 | 7 | 36 | 9  | 9  |
| 72 | 8  | 22 | 18 | 9  | 2 | 12 | 13 | 6 | 36 | 6  | 9  |
| 73 | 11 | 29 | 19 | 10 | 3 | 13 | 17 | 7 | 43 | 8  | 11 |
| 74 | 10 | 27 | 18 | 10 | 4 | 15 | 17 | 5 | 40 | 4  | 9  |
| 75 | 8  | 21 | 16 | 11 | 2 | 14 | 14 | 6 | 41 | 5  | 9  |
| 76 | 8  | 22 | 12 | 10 | 4 | 11 | 15 | 6 | 33 | 5  | 8  |
| 77 | 8  | 23 | 17 | 9  | 2 | 11 | 15 | 6 | 35 | 8  | 9  |
| 78 | 9  | 25 | 16 | 7  | 3 | 10 | 14 | 8 | 34 | 7  | 9  |

|     |    |    |    |    |   |    |    |   |    |    |    |
|-----|----|----|----|----|---|----|----|---|----|----|----|
| 79  | 10 | 29 | 18 | 10 | 3 | 13 | 18 | 7 | 43 | 8  | 10 |
| 80  | 10 | 28 | 22 | 11 | 4 | 16 | 19 | 6 | 34 | 6  | 10 |
| 81  | 9  | 27 | 22 | 12 | 3 | 14 | 18 | 7 | 41 | 12 | 11 |
| 82  | 11 | 23 | 19 | 9  | 4 | 14 | 18 | 7 | 40 | 10 | 10 |
| 83  | 12 | 27 | 18 | 10 | 4 | 14 | 18 | 8 | 40 | 9  | 10 |
| 84  | 9  | 26 | 18 | 10 | 3 | 12 | 16 | 6 | 37 | 9  | 10 |
| 85  | 9  | 29 | 19 | 9  | 3 | 14 | 14 | 5 | 38 | 8  | 8  |
| 86  | 10 | 29 | 20 | 9  | 3 | 12 | 18 | 8 | 41 | 9  | 12 |
| 87  | 9  | 27 | 21 | 11 | 3 | 12 | 15 | 7 | 40 | 10 | 10 |
| 88  | 10 | 26 | 21 | 10 | 4 | 14 | 19 | 8 | 46 | 10 | 12 |
| 89  | 10 | 29 | 22 | 11 | 4 | 14 | 19 | 6 | 39 | 9  | 11 |
| 90  | 12 | 31 | 19 | 10 | 3 | 14 | 15 | 6 | 44 | 12 | 11 |
| 91  | 9  | 23 | 16 | 10 | 4 | 11 | 16 | 7 | 40 | 11 | 10 |
| 92  | 12 | 32 | 24 | 10 | 3 | 13 | 18 | 4 | 45 | 8  | 10 |
| 93  | 9  | 27 | 20 | 11 | 3 | 14 | 18 | 7 | 39 | 8  | 9  |
| 94  | 12 | 30 | 23 | 11 | 4 | 16 | 19 | 7 | 48 | 11 | 12 |
| 95  | 10 | 26 | 22 | 10 | 4 | 14 | 18 | 8 | 41 | 11 | 10 |
| 96  | 8  | 24 | 13 | 9  | 3 | 10 | 13 | 5 | 36 | 6  | 6  |
| 97  | 10 | 30 | 22 | 9  | 3 | 15 | 18 | 6 | 48 | 8  | 12 |
| 98  | 11 | 24 | 18 | 9  | 3 | 11 | 15 | 5 | 36 | 7  | 9  |
| 99  | 11 | 28 | 23 | 12 | 4 | 15 | 20 | 6 | 47 | 9  | 11 |
| 100 | 9  | 25 | 17 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 101 | 12 | 29 | 23 | 11 | 3 | 14 | 19 | 7 | 44 | 7  | 10 |
| 102 | 9  | 22 | 15 | 9  | 2 | 9  | 13 | 6 | 35 | 8  | 9  |
| 103 | 11 | 29 | 24 | 12 | 3 | 16 | 19 | 8 | 37 | 9  | 9  |
| 104 | 10 | 24 | 17 | 6  | 3 | 13 | 14 | 6 | 41 | 10 | 9  |
| 105 | 9  | 27 | 18 | 9  | 3 | 12 | 15 | 6 | 39 | 11 | 9  |
| 106 | 12 | 32 | 24 | 12 | 4 | 16 | 20 | 8 | 48 | 12 | 12 |
| 107 | 10 | 26 | 21 | 10 | 3 | 12 | 16 | 7 | 46 | 8  | 11 |
| 108 | 10 | 29 | 20 | 10 | 3 | 13 | 19 | 8 | 40 | 9  | 11 |
| 109 | 12 | 30 | 18 | 9  | 3 | 12 | 15 | 6 | 36 | 9  | 9  |
| 110 | 9  | 24 | 19 | 9  | 3 | 11 | 14 | 6 | 35 | 9  | 8  |
| 111 | 9  | 23 | 18 | 9  | 3 | 14 | 15 | 7 | 40 | 10 | 10 |
| 112 | 9  | 26 | 22 | 10 | 4 | 12 | 17 | 6 | 36 | 9  | 9  |
| 113 | 9  | 26 | 19 | 11 | 3 | 14 | 18 | 6 | 43 | 8  | 9  |
| 114 | 9  | 22 | 17 | 9  | 2 | 11 | 15 | 7 | 37 | 9  | 10 |
| 115 | 10 | 25 | 16 | 10 | 3 | 13 | 16 | 7 | 43 | 10 | 10 |
| 116 | 11 | 29 | 21 | 12 | 4 | 16 | 20 | 8 | 48 | 12 | 12 |
| 117 | 12 | 28 | 19 | 12 | 4 | 14 | 20 | 6 | 37 | 9  | 12 |
| 118 | 12 | 31 | 24 | 12 | 4 | 16 | 20 | 8 | 48 | 12 | 12 |
| 119 | 8  | 21 | 14 | 6  | 3 | 12 | 14 | 6 | 32 | 7  | 8  |

|            |    |    |    |    |   |    |    |   |    |    |    |
|------------|----|----|----|----|---|----|----|---|----|----|----|
| <b>120</b> | 9  | 24 | 21 | 10 | 3 | 12 | 15 | 6 | 41 | 9  | 10 |
| <b>121</b> | 9  | 21 | 18 | 11 | 3 | 12 | 15 | 6 | 36 | 7  | 9  |
| <b>122</b> | 9  | 28 | 18 | 12 | 4 | 10 | 16 | 5 | 42 | 9  | 11 |
| <b>123</b> | 9  | 22 | 16 | 9  | 3 | 11 | 14 | 5 | 33 | 8  | 9  |
| <b>124</b> | 9  | 22 | 15 | 8  | 3 | 12 | 17 | 5 | 46 | 10 | 9  |
| <b>125</b> | 9  | 23 | 18 | 8  | 3 | 12 | 14 | 6 | 35 | 9  | 9  |
| <b>126</b> | 9  | 22 | 17 | 8  | 3 | 11 | 15 | 6 | 35 | 7  | 7  |
| <b>127</b> | 9  | 24 | 18 | 9  | 3 | 11 | 13 | 6 | 39 | 8  | 10 |
| <b>128</b> | 12 | 31 | 24 | 12 | 4 | 16 | 20 | 8 | 47 | 11 | 12 |
| <b>129</b> | 10 | 23 | 18 | 10 | 2 | 13 | 15 | 5 | 35 | 9  | 9  |
| <b>130</b> | 10 | 29 | 23 | 10 | 2 | 11 | 18 | 5 | 33 | 9  | 9  |

Keterangan:

1. Keterampilan Membuka Pelajaran
2. Keterampilan Menjelaskan
3. Keterampilan Memberikan Penguatan
4. Keterampilan Menggunakan Media dan Alat Pembelajaran
5. Keterampilan Menyusun Skenario Pembelajaran
6. Keterampilan Mengadakan Variasi
7. Keterampilan Membimbing Diskusi
8. Keterampilan Mengelola Kelas
9. Keterampilan Bertanya
10. Keterampilan Mengevaluasi
11. Keterampilan Menutup Pelajaran

Lampiran 5.

Deskripsi Data

**Output Software SPSS For Windows Versi 23.0**

**Persepsi Siswa Terhadap Keterampilan Mengajar Mahasiswa PLT UNY**

**Frequencies**

**Statistics**

JML

|                    |         |          |
|--------------------|---------|----------|
| N                  | Valid   | 130      |
|                    | Missing | 0        |
| Mean               |         | 157.5538 |
| Std. Error of Mean |         | 1.53776  |
| Median             |         | 156.0000 |
| Mode               |         | 150.00   |
| Std. Deviation     |         | 17.53316 |
| Minimum            |         | 113.00   |
| Maximum            |         | 199.00   |
| Sum                |         | 20482.00 |

**JML**

|       |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|--------|-----------|---------|---------------|--------------------|
| Valid | 113.00 | 1         | .8      | .8            | .8                 |
|       | 117.00 | 1         | .8      | .8            | 1.5                |
|       | 131.00 | 2         | 1.5     | 1.5           | 3.1                |
|       | 132.00 | 3         | 2.3     | 2.3           | 5.4                |
|       | 133.00 | 2         | 1.5     | 1.5           | 6.9                |
|       | 134.00 | 1         | .8      | .8            | 7.7                |
|       | 135.00 | 1         | .8      | .8            | 8.5                |
|       | 137.00 | 4         | 3.1     | 3.1           | 11.5               |
|       | 138.00 | 2         | 1.5     | 1.5           | 13.1               |
|       | 139.00 | 5         | 3.8     | 3.8           | 16.9               |
|       | 140.00 | 3         | 2.3     | 2.3           | 19.2               |

|        |   |     |     |      |
|--------|---|-----|-----|------|
| 141.00 | 2 | 1.5 | 1.5 | 20.8 |
| 142.00 | 3 | 2.3 | 2.3 | 23.1 |
| 143.00 | 4 | 3.1 | 3.1 | 26.2 |
| 144.00 | 1 | .8  | .8  | 26.9 |
| 146.00 | 3 | 2.3 | 2.3 | 29.2 |
| 147.00 | 3 | 2.3 | 2.3 | 31.5 |
| 148.00 | 3 | 2.3 | 2.3 | 33.8 |
| 149.00 | 3 | 2.3 | 2.3 | 36.2 |
| 150.00 | 6 | 4.6 | 4.6 | 40.8 |
| 151.00 | 3 | 2.3 | 2.3 | 43.1 |
| 152.00 | 1 | .8  | .8  | 43.8 |
| 153.00 | 4 | 3.1 | 3.1 | 46.9 |
| 154.00 | 1 | .8  | .8  | 47.7 |
| 156.00 | 4 | 3.1 | 3.1 | 50.8 |
| 157.00 | 1 | .8  | .8  | 51.5 |
| 158.00 | 3 | 2.3 | 2.3 | 53.8 |
| 159.00 | 2 | 1.5 | 1.5 | 55.4 |
| 160.00 | 4 | 3.1 | 3.1 | 58.5 |
| 161.00 | 2 | 1.5 | 1.5 | 60.0 |
| 162.00 | 2 | 1.5 | 1.5 | 61.5 |
| 163.00 | 2 | 1.5 | 1.5 | 63.1 |
| 164.00 | 1 | .8  | .8  | 63.8 |
| 165.00 | 3 | 2.3 | 2.3 | 66.2 |
| 166.00 | 4 | 3.1 | 3.1 | 69.2 |
| 167.00 | 1 | .8  | .8  | 70.0 |
| 168.00 | 1 | .8  | .8  | 70.8 |
| 169.00 | 2 | 1.5 | 1.5 | 72.3 |
| 170.00 | 2 | 1.5 | 1.5 | 73.8 |
| 171.00 | 2 | 1.5 | 1.5 | 75.4 |
| 172.00 | 1 | .8  | .8  | 76.2 |
| 173.00 | 2 | 1.5 | 1.5 | 77.7 |
| 174.00 | 5 | 3.8 | 3.8 | 81.5 |
| 175.00 | 1 | .8  | .8  | 82.3 |
| 176.00 | 3 | 2.3 | 2.3 | 84.6 |
| 177.00 | 2 | 1.5 | 1.5 | 86.2 |

|        |     |       |       |       |
|--------|-----|-------|-------|-------|
| 179.00 | 4   | 3.1   | 3.1   | 89.2  |
| 180.00 | 3   | 2.3   | 2.3   | 91.5  |
| 181.00 | 1   | .8    | .8    | 92.3  |
| 185.00 | 1   | .8    | .8    | 93.1  |
| 186.00 | 1   | .8    | .8    | 93.8  |
| 187.00 | 1   | .8    | .8    | 94.6  |
| 189.00 | 1   | .8    | .8    | 95.4  |
| 192.00 | 2   | 1.5   | 1.5   | 96.9  |
| 193.00 | 2   | 1.5   | 1.5   | 98.5  |
| 194.00 | 1   | .8    | .8    | 99.2  |
| 199.00 | 1   | .8    | .8    | 100.0 |
| Total  | 130 | 100.0 | 100.0 |       |

## Sub Variabel

### Statistics

| Keterampilan_membuka_pelajaran |         |         |
|--------------------------------|---------|---------|
| N                              | Valid   | 130     |
|                                | Missing | 0       |
| Mean                           |         | 9.8077  |
| Median                         |         | .11511  |
| Mode                           |         | 10.0000 |
| Std. Deviation                 |         | 9.00    |
| Minimum                        |         | 1.31241 |
| Maximum                        |         | 12.00   |
| Sum                            |         | 1275.00 |

### Keterampilan\_membuka\_pelajaran

|       |       | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | 8.00  | 20        | 15.4    | 15.4          | 15.4               |
|       | 9.00  | 44        | 33.8    | 33.8          | 49.2               |
|       | 10.00 | 29        | 22.3    | 22.3          | 71.5               |
|       | 11.00 | 15        | 11.5    | 11.5          | 83.1               |
|       | 12.00 | 22        | 16.9    | 16.9          | 100.0              |
| Total |       | 130       | 100.0   | 100.0         |                    |

### Statistics

| Keterampilan_menjelaskan |         |                    |
|--------------------------|---------|--------------------|
| N                        | Valid   | 130                |
|                          | Missing | 0                  |
| Mean                     |         | 25.4308            |
| Median                   |         | .30616             |
| Mode                     |         | 26.0000            |
| Std. Deviation           |         | 24.00 <sup>a</sup> |
| Minimum                  |         | 3.49072            |
| Maximum                  |         | 32.00              |
| Sum                      |         | 3306.00            |

**Keterampilan\_menjelaskan**

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 15.00 | 1         | .8      | .8            | .8                    |
|       | 17.00 | 2         | 1.5     | 1.5           | 2.3                   |
|       | 18.00 | 2         | 1.5     | 1.5           | 3.8                   |
|       | 20.00 | 3         | 2.3     | 2.3           | 6.2                   |
|       | 21.00 | 8         | 6.2     | 6.2           | 12.3                  |
|       | 22.00 | 13        | 10.0    | 10.0          | 22.3                  |
|       | 23.00 | 10        | 7.7     | 7.7           | 30.0                  |
|       | 24.00 | 14        | 10.8    | 10.8          | 40.8                  |
|       | 25.00 | 10        | 7.7     | 7.7           | 48.5                  |
|       | 26.00 | 14        | 10.8    | 10.8          | 59.2                  |
|       | 27.00 | 12        | 9.2     | 9.2           | 68.5                  |
|       | 28.00 | 12        | 9.2     | 9.2           | 77.7                  |
|       | 29.00 | 14        | 10.8    | 10.8          | 88.5                  |
|       | 30.00 | 7         | 5.4     | 5.4           | 93.8                  |
|       | 31.00 | 5         | 3.8     | 3.8           | 97.7                  |
|       | 32.00 | 3         | 2.3     | 2.3           | 100.0                 |
|       | Total | 130       | 100.0   | 100.0         |                       |

**Statistics**

| Keterampilan_memberikan_penguatan |         |         |
|-----------------------------------|---------|---------|
| N                                 | Valid   | 130     |
|                                   | Missing | 0       |
| Mean                              |         | 18.4157 |
| Median                            |         | 18.0000 |
| Mode                              |         | 18.00   |
| Std. Deviation                    |         | 2.92200 |
| Minimum                           |         | 10.00   |
| Maximum                           |         | 24.00   |
| Sum                               |         | 3278.00 |

**Keterampilan\_memberikan\_penguatan**

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 10.00 | 1         | .8      | .8            | .8                    |
|       | 12.00 | 3         | 2.3     | 2.3           | 3.1                   |
|       | 13.00 | 2         | 1.5     | 1.5           | 4.6                   |
|       | 14.00 | 5         | 3.8     | 3.8           | 8.5                   |
|       | 15.00 | 10        | 7.7     | 7.7           | 16.2                  |
|       | 16.00 | 14        | 10.8    | 10.8          | 26.9                  |
|       | 17.00 | 9         | 6.9     | 6.9           | 33.8                  |
|       | 18.00 | 25        | 19.2    | 19.2          | 53.1                  |
|       | 19.00 | 12        | 9.2     | 9.2           | 62.3                  |
|       | 20.00 | 14        | 10.8    | 10.8          | 73.1                  |
|       | 21.00 | 11        | 8.5     | 8.5           | 81.5                  |
|       | 22.00 | 11        | 8.5     | 8.5           | 90.0                  |
|       | 23.00 | 7         | 5.4     | 5.4           | 95.4                  |
|       | 24.00 | 6         | 4.6     | 4.6           | 100.0                 |
|       | Total | 130       | 100.0   | 100.0         |                       |

**Statistics**

|                                                          |         |         |
|----------------------------------------------------------|---------|---------|
| Keterampilan_menggunakan_alat_dan_me<br>dia_pembelajaran |         |         |
| N                                                        | Valid   | 130     |
|                                                          | Missing | 0       |
| Mean                                                     |         | 9.4308  |
| Median                                                   |         | .15672  |
| Mode                                                     |         | 10.0000 |
| Std. Deviation                                           |         | 9.00    |
| Minimum                                                  |         | 1.78685 |
| Maximum                                                  |         | 12.00   |
| Sum                                                      |         | 1226.00 |

**Keterampilan\_menggunakan\_alat\_dan\_media\_pembelajaran**

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 4.00  | 2         | 1.5     | 1.5           | 1.5                   |
|       | 5.00  | 1         | .8      | .8            | 2.3                   |
|       | 6.00  | 6         | 4.6     | 4.6           | 6.9                   |
|       | 7.00  | 8         | 6.2     | 6.2           | 13.1                  |
|       | 8.00  | 11        | 8.5     | 8.5           | 21.5                  |
|       | 9.00  | 35        | 26.9    | 26.9          | 48.5                  |
|       | 10.00 | 34        | 26.2    | 26.2          | 74.6                  |
|       | 11.00 | 16        | 12.3    | 12.3          | 86.9                  |
|       | 12.00 | 17        | 13.1    | 13.1          | 100.0                 |
|       | Total | 130       | 100.0   | 100.0         |                       |

**Statistics**

| Keterampilan_menyusun_skenario_pembelajaran |         |        |
|---------------------------------------------|---------|--------|
| N                                           | Valid   | 130    |
|                                             | Missing | 0      |
| Mean                                        |         | 3.0462 |
| Median                                      |         | .06355 |
| Mode                                        |         | 3.0000 |
| Std. Deviation                              |         | 3.00   |
| Minimum                                     |         | .72456 |
| Maximum                                     |         | 4.00   |
| Sum                                         |         | 396.00 |

**Keterampilan\_menyusun\_skenario\_pembelajaran**

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 1.00  | 2         | 1.5     | 1.5           | 1.5                   |
|       | 2.00  | 25        | 19.2    | 19.2          | 20.8                  |
|       | 3.00  | 68        | 52.3    | 52.3          | 73.1                  |
|       | 4.00  | 35        | 26.9    | 26.9          | 100.0                 |
|       | Total | 130       | 100.0   | 100.0         |                       |

### Statistics

| Keterampilan_mengadakan_variasi |         |         |
|---------------------------------|---------|---------|
| N                               | Valid   | 130     |
|                                 | Missing | 0       |
| Mean                            |         | 12.5846 |
| Median                          |         | .17397  |
| Mode                            |         | 13.0000 |
| Std. Deviation                  |         | 12.00   |
| Minimum                         |         | 1.98359 |
| Maximum                         |         | 16.00   |
| Sum                             |         | 1636.00 |

### Keterampilan\_mengadakan\_variasi

|       |       | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | 6.00  | 1         | .8      | .8            | .8                 |
|       | 7.00  | 1         | .8      | .8            | 1.5                |
|       | 8.00  | 1         | .8      | .8            | 2.3                |
|       | 9.00  | 6         | 4.6     | 4.6           | 6.9                |
|       | 10.00 | 9         | 6.9     | 6.9           | 13.8               |
|       | 11.00 | 17        | 13.1    | 13.1          | 26.9               |
|       | 12.00 | 29        | 22.3    | 22.3          | 49.2               |
|       | 13.00 | 16        | 12.3    | 12.3          | 61.5               |
|       | 14.00 | 28        | 21.5    | 21.5          | 83.1               |
|       | 15.00 | 16        | 12.3    | 12.3          | 95.4               |
|       | 16.00 | 6         | 4.6     | 4.6           | 100.0              |
|       | Total | 130       | 100.0   | 100.0         |                    |

**Statistics**

| Keterampilan_membimbing_diskusi |         |         |
|---------------------------------|---------|---------|
| N                               | Valid   | 130     |
|                                 | Missing | 0       |
| Mean                            |         | 15.8846 |
| Median                          |         | .21222  |
| Mode                            |         | 16.0000 |
| Std. Deviation                  |         | 15.00   |
| Minimum                         |         | 2.41967 |
| Maximum                         |         | 20.00   |
| Sum                             |         | 2065.00 |

**Keterampilan\_membimbing\_diskusi**

|       |       | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | 9.00  | 1         | .8      | .8            | .8                 |
|       | 10.00 | 3         | 2.3     | 2.3           | 3.1                |
|       | 11.00 | 1         | .8      | .8            | 3.8                |
|       | 12.00 | 4         | 3.1     | 3.1           | 6.9                |
|       | 13.00 | 10        | 7.7     | 7.7           | 14.6               |
|       | 14.00 | 14        | 10.8    | 10.8          | 25.4               |
|       | 15.00 | 31        | 23.8    | 23.8          | 49.2               |
|       | 16.00 | 13        | 10.0    | 10.0          | 59.2               |
|       | 17.00 | 15        | 11.5    | 11.5          | 70.8               |
|       | 18.00 | 20        | 15.4    | 15.4          | 86.2               |
|       | 19.00 | 7         | 5.4     | 5.4           | 91.5               |
|       | 20.00 | 11        | 8.5     | 8.5           | 100.0              |
|       | Total | 130       | 100.0   | 100.0         |                    |

### Statistics

| Keterampilan_mengelola_kelas |         |         |
|------------------------------|---------|---------|
| N                            | Valid   | 130     |
|                              | Missing | 0       |
| Mean                         |         | 6.1538  |
| Median                       |         | .10946  |
| Mode                         |         | 6.0000  |
| Std. Deviation               |         | 6.00    |
| Minimum                      |         | 1.24802 |
| Maximum                      |         | 8.00    |
| Sum                          |         | 800.00  |

### Keterampilan\_mengelola\_kelas

|       |      | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|------|-----------|---------|---------------|--------------------|
| Valid | 2.00 | 1         | .8      | .8            | .8                 |
|       | 3.00 | 1         | .8      | .8            | 1.5                |
|       | 4.00 | 13        | 10.0    | 10.0          | 11.5               |
|       | 5.00 | 17        | 13.1    | 13.1          | 24.6               |
|       | 6.00 | 48        | 36.9    | 36.9          | 61.5               |
|       | 7.00 | 30        | 23.1    | 23.1          | 84.6               |
|       | 8.00 | 20        | 15.4    | 15.4          | 100.0              |
| Total |      | 130       | 100.0   | 100.0         |                    |

### Statistics

| Keterampilan_bertanya |         |         |
|-----------------------|---------|---------|
| N                     | Valid   | 130     |
|                       | Missing | 0       |
| Mean                  |         | 38.2308 |
| Median                |         | .45180  |
| Mode                  |         | 37.0000 |
| Std. Deviation        |         | 36.00   |
| Minimum               |         | 5.15126 |
| Maximum               |         | 48.00   |
| Sum                   |         | 4970.00 |

**Keterampilan\_bertanya**

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 24.00 | 1         | .8      | .8            | .8                    |
|       | 25.00 | 1         | .8      | .8            | 1.5                   |
|       | 26.00 | 1         | .8      | .8            | 2.3                   |
|       | 27.00 | 1         | .8      | .8            | 3.1                   |
|       | 29.00 | 1         | .8      | .8            | 3.8                   |
|       | 30.00 | 1         | .8      | .8            | 4.6                   |
|       | 31.00 | 1         | .8      | .8            | 5.4                   |
|       | 32.00 | 2         | 1.5     | 1.5           | 6.9                   |
|       | 33.00 | 15        | 11.5    | 11.5          | 18.5                  |
|       | 34.00 | 5         | 3.8     | 3.8           | 22.3                  |
|       | 35.00 | 10        | 7.7     | 7.7           | 30.0                  |
|       | 36.00 | 20        | 15.4    | 15.4          | 45.4                  |
|       | 37.00 | 8         | 6.2     | 6.2           | 51.5                  |
|       | 38.00 | 5         | 3.8     | 3.8           | 55.4                  |
|       | 39.00 | 5         | 3.8     | 3.8           | 59.2                  |
|       | 40.00 | 10        | 7.7     | 7.7           | 66.9                  |
|       | 41.00 | 6         | 4.6     | 4.6           | 71.5                  |
|       | 42.00 | 6         | 4.6     | 4.6           | 76.2                  |
|       | 43.00 | 10        | 7.7     | 7.7           | 83.8                  |
|       | 44.00 | 4         | 3.1     | 3.1           | 86.9                  |
|       | 45.00 | 4         | 3.1     | 3.1           | 90.0                  |
|       | 46.00 | 3         | 2.3     | 2.3           | 92.3                  |
|       | 47.00 | 4         | 3.1     | 3.1           | 95.4                  |
|       | 48.00 | 6         | 4.6     | 4.6           | 100.0                 |
| Total |       | 130       | 100.0   | 100.0         |                       |

### Statistics

|                |         | Keterampilan_mengevaluasi |
|----------------|---------|---------------------------|
| N              | Valid   | 130                       |
|                | Missing | 0                         |
| Mean           |         | 8.8769                    |
| Median         |         | .15211                    |
| Mode           |         | 9.0000                    |
| Std. Deviation |         | 9.00                      |
| Minimum        |         | 1.73436                   |
| Maximum        |         | 12.00                     |
| Sum            |         | 1154.00                   |

### Keterampilan\_mengevaluasi

|       |       | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | 3.00  | 1         | .8      | .8            | .8                 |
|       | 4.00  | 2         | 1.5     | 1.5           | 2.3                |
|       | 5.00  | 2         | 1.5     | 1.5           | 3.8                |
|       | 6.00  | 5         | 3.8     | 3.8           | 7.7                |
|       | 7.00  | 12        | 9.2     | 9.2           | 16.9               |
|       | 8.00  | 25        | 19.2    | 19.2          | 36.2               |
|       | 9.00  | 42        | 32.3    | 32.3          | 68.5               |
|       | 10.00 | 20        | 15.4    | 15.4          | 83.8               |
|       | 11.00 | 11        | 8.5     | 8.5           | 92.3               |
|       | 12.00 | 10        | 7.7     | 7.7           | 100.0              |
|       | Total | 130       | 100.0   | 100.0         |                    |

### Statistics

|                |         | Keterampilan_menutup_pelajaran |
|----------------|---------|--------------------------------|
| N              | Valid   | 130                            |
|                | Missing | 0                              |
| Mean           |         | 9.6077                         |
| Median         |         | .14712                         |
| Mode           |         | 9.0000                         |
| Std. Deviation |         | 9.00                           |
| Minimum        |         | 1.67747                        |
| Maximum        |         | 12.00                          |
| Sum            |         | 1249.00                        |

### Keterampilan menutup pelajaran

|       |       | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| Valid | 3.00  | 1         | .8      | .8            | .8                 |
|       | 6.00  | 4         | 3.1     | 3.1           | 3.8                |
|       | 7.00  | 7         | 5.4     | 5.4           | 9.2                |
|       | 8.00  | 15        | 11.5    | 11.5          | 20.8               |
|       | 9.00  | 40        | 30.8    | 30.8          | 51.5               |
|       | 10.00 | 22        | 16.9    | 16.9          | 68.5               |
|       | 11.00 | 19        | 14.6    | 14.6          | 83.1               |
|       | 12.00 | 22        | 16.9    | 16.9          | 100.0              |
| Total |       | 130       | 100.0   | 100.0         |                    |

Lampiran 6.

Data Siswa

## DATA SISWA

### 1. Kelas X BA

| NO. | NIS     | NAMA                                  |
|-----|---------|---------------------------------------|
| 1   | 1821239 | AKBAR MAKNUN ROZAN SAPUTRA            |
| 2   | 1821240 | ARYA FENDY PRADANA                    |
| 3   | 1821241 | AUDI MUHAMMAD KHAIRUL AMIN            |
| 4   | 1821242 | AZZAM FARID MAULANA                   |
| 5   | 1821243 | BAGUS MAHARDIKA                       |
| 6   | 1821244 | DAFA RAMADHAN BIMANTARA               |
| 7   | 1821245 | DESTIAN CATUR CAHYA RAMADHAN          |
| 8   | 1821246 | DIAN WACHID SOFZEGA                   |
| 9   | 1821247 | ENZO ARLIANSYACH AL HARITZ            |
| 10  | 1821248 | FAUZAN HABIBULOH                      |
| 11  | 1821249 | <b>HASNA SHOFIANA</b>                 |
| 12  | 1821250 | <b>INDAH DIAH ASTUTI</b>              |
| 13  | 1821251 | <b>ISTIANAH</b>                       |
| 14  | 1821252 | <b>LILIN EKARISTI</b>                 |
| 15  | 1821253 | <b>MAULIDAR NAJWA FAIZA</b>           |
| 16  | 1821254 | MEGA UTAMA                            |
| 17  | 1821255 | MUCHAMMAD SYAIFUL ANWAR               |
| 18  | 1821256 | MUHAMMAD IKHWAN MAULANA               |
| 19  | 1821257 | MUHAMMAD KAHFI                        |
| 20  | 1821258 | MUHAMMAD WAHID FATKHURODIN            |
| 21  | 1821259 | NOUFAL AJI PRASETYO                   |
| 22  | 1821260 | PRAMUDITYA OKKY PRASTYANTO            |
| 23  | 1821261 | <b>QONITA AZIZAH</b>                  |
| 24  | 1821262 | RIKO UTAMA RISWANTO                   |
| 25  | 1821263 | RIZKY ADNAN BASYAR                    |
| 26  | 1821264 | RIZKY DIWA SAPUTRA                    |
| 27  | 1821265 | <b>ROSALINDA LUSIA JAYA</b>           |
| 28  | 1821266 | SATRIA RANGGA PERDANA                 |
| 29  | 1821267 | <b>TALITHA SALMA AZARIA MUSLICHAN</b> |
| 30  | 1821268 | <b>UMI HANIK SYAKIROH</b>             |
| 31  | 1821269 | WAHYU ERI ERWIAN TO                   |
| 32  | 1821270 | <b>YULIA IRMAWATI</b>                 |

2. Kelas X BB

| NO. | NIS     | NAMA                              |
|-----|---------|-----------------------------------|
| 1   | 1821271 | ADI PRAYOGO                       |
| 2   | 1821272 | AHMAD FEBRIYANTO                  |
| 3   | 1821273 | AHMAD HASBI AFIFFUDIN             |
| 4   | 1821274 | AKHMAD KHUDAIFAH                  |
| 5   | 1821275 | AKMALANTO MASDARIN                |
| 6   | 1821276 | ALEXANDER DANNY TRI PRAKOSO       |
| 7   | 1821277 | ANAS HARI NUGROHO                 |
| 8   | 1821278 | <b>ANASTITI DWI CAHYANI</b>       |
| 9   | 1821279 | ANDREAN LINOORCE                  |
| 10  | 1821280 | ARDAN HAFIDZ AMARINE              |
| 11  | 1821281 | <b>ASROFU ANISSA</b>              |
| 12  | 1821282 | <b>CHORI NUR HAYATI</b>           |
| 13  | 1821283 | <b>DESTIYA NUR KHASANAH</b>       |
| 14  | 1821284 | <b>DIAN PRAMUDITA</b>             |
| 15  | 1821285 | DIMAS TEGAR PERKASA               |
| 16  | 1821286 | <b>FANI LISTIANA</b>              |
| 17  | 1821287 | HARDI YANSAPUTRA                  |
| 18  | 1821288 | IMAM PRASETYO                     |
| 19  | 1821289 | KURNIATAKA DICKY AGYARI           |
| 20  | 1821290 | MUHAMAD RIZKY DENY ZOBRY          |
| 21  | 1821291 | MUHAMMAD GALANG WAHYU ADI LAKSONO |
| 22  | 1821292 | MUHAMMAD HAUNAN MAZIDA            |
| 23  | 1821293 | MUHAMMAD JAHRED FACHRYZAL         |
| 24  | 1821294 | MUHAMMAD MAFTUKH IZZUDIN          |
| 25  | 1821295 | MUHAMMAD TAWAFIQL HAQ             |
| 26  | 1821296 | MUKTIVANI SWASTIKO                |
| 27  | 1821297 | RIFKI AJI BRAMANTIO               |
| 28  | 1821298 | <b>RISKA SABILATUL AZIZAH</b>     |
| 29  | 1821299 | RIZAL ADI NUGROHO                 |
| 30  | 1821300 | <b>SINTIYA AFRIYANA</b>           |
| 31  | 1821301 | YOGA BAGAS MAULANA                |
| 32  | 1821302 | <b>ZULIYANA MIYANTI</b>           |

3. Kelas X BC

| NO. | NIS     | NAMA                           |
|-----|---------|--------------------------------|
| 1   | 1821303 | ADIRA NURWICAKSONO             |
| 2   | 1821304 | ADIT ARIYADI                   |
| 3   | 1821305 | AHMAD AUFAN                    |
| 4   | 1821306 | AHMAD DWI CAHYO                |
| 5   | 1821307 | AHMAT HARYONO                  |
| 6   | 1821308 | AKMAL ALIF HIDAYAT             |
| 7   | 1821309 | <b>AMARA ARDANTI</b>           |
| 8   | 1821310 | ANANDA RAGIL SAPUTRA           |
| 9   | 1821311 | BAYU MIFTAHUL YUSUF            |
| 10  | 1821312 | DWI NOVERIYANTO                |
| 11  | 1821313 | ENJANG SIDI KAWURYAN           |
| 12  | 1821314 | HARIS PRATAMA                  |
| 13  | 1821315 | <b>HETY NOVIRIYANI</b>         |
| 14  | 1821316 | <b>HUSNA PARAMITA</b>          |
| 15  | 1821317 | IRFAN MAULANA                  |
| 16  | 1821318 | LUTHFI ABDILLAH                |
| 17  | 1821319 | MUADIB SYUYUTHI                |
| 18  | 1821320 | MUHAMMAD IQBAL FIRMANSYAH      |
| 19  | 1821321 | MUHAMMAD YUSUF AFANDI          |
| 20  | 1821322 | <b>NURUSH SOCHIBAH</b>         |
| 21  | 1821323 | <b>OKTARINA WIDYASTUTI</b>     |
| 22  | 1821324 | <b>PUTRI RATNANINGSIH</b>      |
| 23  | 1821325 | <b>RAHAYU NUR INSANI</b>       |
| 24  | 1821326 | RAMADHANI PRAMUSINTA SUBAGYO   |
| 25  | 1821327 | RAVI DEVATAMA                  |
| 26  | 1821328 | RENDIKA DEVIN PURWADI          |
| 27  | 1821329 | ROHMAD ARYA SANTOSO            |
| 28  | 1821330 | RUDI SETIAWAN                  |
| 29  | 1821331 | SAPUTRA ANUGRAH                |
| 30  | 1821332 | STEFANUS ALBERT WAHYUDHA       |
| 31  | 1821333 | <b>YOGA WAHYU SETYANINGSIH</b> |
| 32  | 1821334 | YUSUF                          |

4. Kelas XI BA

| NO. | NIS     | NAMA                        |
|-----|---------|-----------------------------|
| 1   | 1720601 | ADITYA SURYA PRATAMA        |
| 2   | 1720602 | AHMAD SHIDDIQ PRIBADI       |
| 3   | 1720603 | ARI PARIBADA NURSAID        |
| 4   | 1720605 | DHEDHE PERMADI              |
| 5   | 1720606 | <b>DINA SILMA ASMITA</b>    |
| 6   | 1720607 | <b>FARIDA KURNIAWATI</b>    |
| 7   | 1720608 | FEBRIAN PUTRA HERNANTYA     |
| 8   | 1720609 | <b>FIRA FARDA PAMUNGKAS</b> |
| 9   | 1720610 | FIRMAN MAULANA              |
| 10  | 1720611 | FUADILIN                    |
| 11  | 1720612 | HENKY ANDREANSYAH           |
| 12  | 1720613 | HERMAWAN WIJAYANTO          |
| 13  | 1720614 | IQBAL RAMADHAN              |
| 14  | 1720615 | <b>ITALIANA ANA TASYA</b>   |
| 15  | 1720616 | JATI KUSUMA                 |
| 16  | 1720617 | JOFANZA WILHAM IBRAMSYAH    |
| 17  | 1720618 | MUHAMMAD ILHAM HAFIDHUDDIN  |
| 18  | 1720619 | MUHAMMAD RIDWAN FIRDAUS     |
| 19  | 1720620 | MUSYAFFA ROFI MARZUQI       |
| 20  | 1720621 | NOVANDA YOGA ASTARAGA       |
| 21  | 1720622 | <b>NUR LAELATUL HIKMAH</b>  |
| 22  | 1720623 | RAFLI ZAIN                  |
| 23  | 1720625 | ROBIANSYAH ABI MAULANA      |
| 24  | 1720626 | RUCI ALANG                  |
| 25  | 1720627 | RUDI PRIMAJATI              |
| 26  | 1720628 | <b>RUKMAWATI</b>            |
| 27  | 1720629 | <b>SARI DWI ASTUTIK</b>     |
| 28  | 1720630 | SARIFUDIN FAUZAN            |
| 29  | 1720631 | SUKRON ALFA                 |
| 30  | 1720632 | <b>WENING SEKAR ARUM</b>    |

5. Kelas XI BB

| NO. | NIS     | NAMA                            |
|-----|---------|---------------------------------|
| 1   | 1720633 | ABID HANIF DHIYA ULHAQ SANDHIYA |
| 2   | 1720634 | AFRIZAL FADLI                   |
| 3   | 1720635 | AGO HUWANDA                     |
| 4   | 1720636 | AGUS NURUL MUSTOFA              |
| 5   | 1720637 | AHMAD BASTOMIL HIKAM            |
| 6   | 1720638 | ALVIAN TRI PRASETYO             |
| 7   | 1720639 | <b>CAROLINA ARLINE CYNTIA</b>   |
| 8   | 1720640 | <b>DAIMATUL ZAHROH</b>          |
| 9   | 1720641 | <b>DAKISA SEPTIYANTI</b>        |
| 10  | 1720642 | DANI KURNIAWAN                  |
| 11  | 1720643 | DAVID FAUZAN                    |
| 12  | 1720644 | <b>DWI LISKARINA</b>            |
| 13  | 1720645 | ENGAL RIDWAN SULISTYO           |
| 14  | 1720646 | FARKHAN AHYANI                  |
| 15  | 1720647 | <b>FATCHIATUL MUNAYAA</b>       |
| 16  | 1720648 | FENDI WARDHANA                  |
| 17  | 1720649 | FIKRI FADHURROHMAN              |
| 18  | 1720650 | <b>KISI BRILIYANTI</b>          |
| 19  | 1720651 | <b>KURNIA NURJIHAN</b>          |
| 20  | 1720652 | <b>LIA FARIKHA</b>              |
| 21  | 1720653 | LUTHFIE ARIF SETYAWAN PRIBADI   |
| 22  | 1720654 | MAULANA HAIKAL MUQODDAS         |
| 23  | 1720655 | MUHAMMAD FABIAN MORENO          |
| 24  | 1720656 | MUHAMMAD TEGAR DIAN SAPUTRA     |
| 25  | 1720657 | NAUFAL AGHISNI LATANSA          |
| 26  | 1720658 | RIFKI ARDIYANTO                 |
| 27  | 1720659 | <b>RIKA ANJELI</b>              |
| 28  | 1720660 | <b>RIKA AYU MANDARANI</b>       |
| 29  | 1720661 | RIZAL CHOIRUL AMIR              |
| 30  | 1720662 | SALAFUDIN ZAIN                  |
| 31  | 1720663 | <b>SALMA SALSABILA ZAFILA</b>   |
| 32  | 1720664 | SEPTIO NUR ARIFAN               |

6. Kelas XI BC

| NO. | NIS     | NAMA                                    |
|-----|---------|-----------------------------------------|
| 1   | 1720665 | AAN ARG A PRATAMA                       |
| 2   | 1720666 | ALIF RESTU WICAKSONO                    |
| 3   | 1720667 | ANDRIYAN DWI SAPUTRO                    |
| 4   | 1720668 | <b>ANINDOVISMA DE CLAUDIA TAKAMATSU</b> |
| 5   | 1720669 | DAVID Kholik                            |
| 6   | 1720670 | <b>DIAN NURAINA ATMADJA</b>             |
| 7   | 1720671 | <b>EVI PURWANTI</b>                     |
| 8   | 1720672 | <b>FARIDATUL VINALDA KURNIAWATI</b>     |
| 9   | 1720673 | FERI PRASETYO                           |
| 10  | 1720674 | GILANG YOGI SETYADI                     |
| 11  | 1720675 | IBNU SULISTYO                           |
| 12  | 1720676 | <b>IIN SRI UTAMI</b>                    |
| 13  | 1720677 | ILHAM SUBKHAN                           |
| 14  | 1720678 | JATI ISTANTO                            |
| 15  | 1720679 | MARIO YANUAR WAHREZI SINAGA             |
| 16  | 1720680 | <b>MAULINA ASHWIN</b>                   |
| 17  | 1720681 | MOHAMMAD TEGAR PANGESTU                 |
| 18  | 1720682 | MUHAMMAD ALWI ASGAF                     |
| 19  | 1720683 | MUHAMMAD RAFLI KHALID                   |
| 20  | 1720684 | MUHAMMAD ABDUL WAHID                    |
| 21  | 1720685 | <b>NINIK RIZQI ZUNARISMA</b>            |
| 22  | 1720686 | PANJI AL-HAQ                            |
| 23  | 1720687 | <b>PRISMA OKTAVIANA GHANISA</b>         |
| 25  | 1720689 | RIKAT SAIFUL AMIN                       |
| 26  | 1720690 | RIZAL NUR ALFI                          |
| 27  | 1720691 | ROHMAT AFFAN NURSALIM                   |
| 28  | 1720692 | <b>SILVIANA INDAH MAULIDAH</b>          |
| 29  | 1720693 | SYAHRIL HAZIZD                          |
| 30  | 1720694 | <b>TITIS YEKTI LESTARI</b>              |
| 31  | 1720695 | WAHYU ROMADLON                          |
| 32  | 1720696 | <b>WARIH HANDAYANI</b>                  |
| 33  | 1620088 | RISKY GENTA MAULANA                     |

Lampiran 7.

Surat-Surat

### Surat Permohonan Validasi Instrumen Penelitian

Hal : Permohonan Validasi Instrumen TAS  
Lampiran : 1 Bendel

Kepada Yth,  
Drs. Sumarjo H., MT,  
Dosen Jurusan Pendidikan Teknik Sipil dan Perencanaan

Sehubungan dengan rencana pelaksanaan Tugas Akhir Skripsi (TAS),  
dengan ini saya:

Nama : Beny Rizki Praseptiyono  
NIM : 13505241088  
Program Studi : Pendidikan Teknik Sipil dan Perencanaan  
Judul Tas : Persepsi Siswa Terhadap Kompetensi Mengajar  
Mahasiswa PLT Jurusan Pendidikan Teknik Sipil dan  
Perencanaan di SMK Negeri 1 Magelang 2018/2019

Dengan hormat memohon Bapak berkenan memberikan validasi terhadap  
instrumen penelitian TAS yang telah saya susun. Sebagai bahan pertimbangan,  
bersama ini saya lampirkan: (1) proposal TAS, (2) kisi-kisi instrumen penelitian  
TAS, dan (3) draf instrumen penelitian TAS.

Demikian permohonan saya, atas bantuan dan perhatian Bapak  
diucapkan terima kasih.

Yogyakarta, 10 Desember 2018

Pemohon,



Beny Rizki Praseptiyono

NIM. 13505241088

Mengetahui,

Kaprodi  
Pend. Teknik Sipil & Perencanaan



Drs. Darmono, M.T.  
NIP. 19640805 199101 1 001

Pembimbing TAS,



Dr. Nuryadin Eko Raharjo, S.Pd., M.Pd.  
NIP. 19721015 200212 1 002

**SURAT PERNYATAAN VALIDASI  
INSTRUMEN PENELITIAN TUGAS AKHIR SKRIPSI**

Saya yang bertanda tangan dibawah ini:

Nama : Drs. Sumarjo H, MT.  
NIP : 19570414 198303 1 003  
Jurusan : Pendidikan Teknik Sipil dan Perencanaan

Menyatakan bahwa instrumen penelitian TAS atas nama mahasiswa:

Nama : Beny Rizki Praseptiyono  
NIM : 13505241088  
Program Studi : Pendidikan Teknik Sipil dan Perencanaan  
Judul TAS : Persepsi Siswa Terhadap Kompetensi Mengajar  
Mahasiswa PLT Jurusan Pendidikan Teknik Sipil dan  
Perencanaan di SMK Negeri 1 Magelang 2018/2019

Setelah dilakukan kajian atas instrumen penelitian TAS tersebut dapat dinyatakan:

- ☐ Layak digunakan untuk penelitian  
☒ Layak digunakan dengan perbaikan  
☐ Tidak layak digunakan untuk penelitian yang bersangkutan dengan saran/perbaikan sebagai terlampir.

Demikian agar dapat digunakan dengan sebagaimana mestinya.

Yogyakarta, Desember 2018

Validator,

Catatan:

1. Berikan pengantar untuk  
nama = masih salah
2. Mengisi variasi  
item kisi & masih salah
3. Isilah: item kisi  
dan masih salah

Catatan:

☐ Beri tanda ✓

Drs. Sumarjo H, MT.

NIP. 19570414 198303 1 003

### Surat Permohonan Validasi Instrumen Penelitian

Hal : Permohonan Validasi Instrumen TAS  
Lampiran : 1 Bendel

Kepada Yth,  
Dr. V. Lilik Hariyanto, M.Pd.,  
Dosen Jurusan Pendidikan Teknik Sipil dan Perencanaan

Sehubungan dengan rencana pelaksanaan Tugas Akhir Skripsi (TAS),  
dengan ini saya:

Nama : Beny Rizki Praseptiyono  
NIM : 13505241088  
Program Studi : Pendidikan Teknik Sipil dan Perencanaan  
Judul Tas : Persepsi Siswa Terhadap Kompetensi Mengajar  
Mahasiswa PLT Jurusan Pendidikan Teknik Sipil dan  
Perencanaan di SMK Negeri 1 Magelang 2018/2019

Dengan hormat memohon Bapak berkenan memberikan validasi terhadap  
instrumen penelitian TAS yang telah saya susun. Sebagai bahan pertimbangan,  
bersama ini saya lampirkan: (1) proposal TAS, (2) kisi-kisi instrumen penelitian  
TAS, dan (3) draf instrumen penelitian TAS.

Demikian permohonan saya, atas bantuan dan perhatian Bapak  
diucapkan terima kasih.

Yogyakarta, 10 Desember 2018

Pemohon,



Beny Rizki Praseptiyono

NIM. 13505241088

Mengetahui,

Kaprodi  
Pend. Teknik Sipil & Perencanaan

  
Drs. Darmono, M.T.  
NIP. 19640805 199101 1 001

Pembimbing TAS,

  
Dr. Nuryadin Eko Raharjo, S.Pd., M.Pd.  
NIP. 19721015 200212 1 002

**SURAT PERNYATAAN VALIDASI  
INSTRUMEN PENELITIAN TUGAS AKHIR SKRIPSI**

Saya yang bertanda tangan dibawah ini:

Nama : Dr. V. Lilik Hariyanto, M.Pd.  
NIP : 19611217 198601 1 001  
Jurusan : Pendidikan Teknik Sipil dan Perencanaan

Menyatakan bahwa instrumen penelitian TAS atas nama mahasiswa:

Nama : Beny Rizki Praseptiyono  
NIM : 13505241088  
Program Studi : Pendidikan Teknik Sipil dan Perencanaan  
Judul TAS : Persepsi Siswa Terhadap Kompetensi Mengajar  
Mahasiswa PLT Jurusan Pendidikan Teknik Sipil dan  
Perencanaan di SMK Negeri 1 Magelang 2018/2019

Setelah dilakukan kajian atas instrumen penelitian TAS tersebut dapat dinyatakan:

- ☐ Layak digunakan untuk penelitian  
☒ Layak digunakan dengan perbaikan  
☐ Tidak layak digunakan untuk penelitian yang bersangkutan dengan saran/perbaikan sebagai terlampir.

Demikian agar dapat digunakan dengan sebagaimana mestinya.

Yogyakarta, Desember 2018  
Validator,



Dr. V. Lilik Hariyanto, M.Pd.,  
NIP. 19611217 198601 1 001

Catatan:

☐ Beri tanda ✓



KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI  
UNIVERSITAS NEGERI YOGYAKARTA  
FAKULTAS TEKNIK

Alamat : Kampus Karangmalang, Yogyakarta, 55281  
Telp. (0274) 586168 psw. 276,289,292 (0274) 586734 Fax. (0274) 586734  
Laman: ft.uny.ac.id E-mail: ft@uny.ac.id, teknik@uny.ac.id

Nomor : 46/UN34.15/LT/2019  
Lamp. : 1 Bendel Proposal  
Hal : Izin Penelitian

24 Januari 2019

Yth . 1. Gubernur Daerah Istimewa Yogyakarta c.q. Kepala Badan Kesatuan Bangsa dan Politik DIY  
2. Kepala SMK Negeri 1 Magelang

Kami sampaikan dengan hormat, bahwa mahasiswa tersebut di bawah ini:

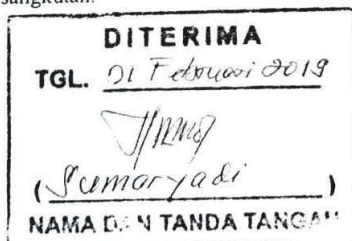
Nama : Beny Rizki Praseptiyono  
NIM : 13505241088  
Program Studi : Pend. Teknik Sipil & Perencanaan - S1  
Tujuan : Memohon izin mencari data untuk penulisan Tugas Akhir Skripsi (TAS)  
Judul Tugas Akhir : Persepsi Siswa Terhadap Keterampilan Mengajar Mahasiswa PLT Jurusan Pendidikan Teknik Sipil dan Perencanaan Di SMK Negeri 1 Magelang 2018/2019  
Waktu Penelitian : 4 - 28 Februari 2019

Untuk dapat terlaksananya maksud tersebut, kami mohon dengan hormat Bapak/Ibu berkenan memberi izin dan bantuan seperlunya.

Demikian atas perhatian dan kerjasamanya kami sampaikan terima kasih.

Dekan,  
  
Dr. Fr. Drs. Widarto, M.Pd.  
NIP 19631230 198812 1 001

Tembusan :  
1. Sub. Bagian Pendidikan dan Kemahasiswaan ;  
2. Mahasiswa yang bersangkutan.





PEMERINTAH DAERAH DAERAH ISTIMEWA YOGYAKARTA  
BADAN KESATUAN BANGSA DAN POLITIK  
Jl. Jenderal Sudirman No 5 Yogyakarta – 55233  
Telepon : (0274) 551136, 551275, Fax (0274) 551137

Yogyakarta, 28 Januari 2019

Kepada Yth. :

Nomor : 074/939/Kesbangpol/2019  
Perihal : Rekomendasi Penelitian

Gubernur Jawa Tengah  
Up. Kepala Dinas Penanaman Modal dan  
Pelayanan Terpadu Satu Pintu Provinsi Jawa  
Tengah

di Semarang

Memperhatikan surat :

Dari : Dekan Fakultas Teknik Universitas Negeri Yogyakarta  
Nomor : 46/UN34.15/LT/2019  
Tanggal : 24 Januari 2019  
Perihal : Izin Penelitian

Setelah mempelajari surat permohonan dan proposal yang diajukan, maka dapat diberikan surat rekomendasi tidak keberatan untuk melaksanakan riset/penelitian dalam rangka penyusunan skripsi dengan judul proposal : "PERSEPSI SISWA TERHADAP KETERAMPILAN MENGAJAR MAHASISWA PLT JURUSAN PENDIDIKAN TEKNIK SIPIL DAN PERENCANAAN DI SMK NEGERI 1 MAGELANG 2018/2019" kepada :

Nama : BENY RIZKI PRASEPTIYONO  
NIM : 13505241088  
No HP/Identitas : 08993619797/3308102409950003  
Prodi/Jurusan : Pendidikan Teknik Sipil dan Perencanaan  
Fakultas : Fakultas Teknik Universitas Negeri Yogyakarta  
Lokasi Penelitian : SMK Negeri 1 Magelang, Provinsi Jawa Tengah  
Waktu Penelitian : 4 Februari 2019 s.d 28 Februari 2019

Sehubungan dengan maksud tersebut, diharapkan agar pihak yang terkait dapat memberikan bantuan / fasilitas yang dibutuhkan.

Kepada yang bersangkutan diwajibkan:

1. Menghormati dan mentaati peraturan dan tata tertib yang berlaku di wilayah riset/penelitian;
2. Tidak dibenarkan melakukan riset/penelitian yang tidak sesuai atau tidak ada kaitannya dengan judul riset/penelitian dimaksud;
3. Menyerahkan hasil riset/penelitian kepada Badan Kesbangpol DIY selambat-lambatnya 6 bulan setelah penelitian dilaksanakan.
4. Surat rekomendasi ini dapat diperpanjang maksimal 2 (dua) kali dengan menunjukkan surat rekomendasi sebelumnya, paling lambat 7 (tujuh) hari kerja sebelum berakhirnya surat rekomendasi ini.

Rekomendasi Ijin Riset/Penelitian ini dinyatakan tidak berlaku, apabila ternyata pemegang tidak mentaati ketentuan tersebut di atas.

Demikian untuk menjadikan maklum.



Tembusan disampaikan Kepada Yth. :

1. Gubernur DIY (sebagai laporan)
2. Dekan Fakultas Teknik Universitas Negeri Yogyakarta
3. Yang bersangkutan



**PEMERINTAH PROVINSI JAWA TENGAH  
DINAS PENANAMAN MODAL  
DAN PELAYANAN TERPADU SATU PINTU**

Jalan Mgr. Sugiyopranoto Nomor 1 Semarang Kode Pos 50131 Telepon : 024 – 3547091, 3547438,  
3541487 Faksimile 024-3549560 Laman <http://dpmpstp.jatengprov.go.id> Surat Elektronik  
[dpmpstp@jatengprov.go.id](mailto:dpmpstp@jatengprov.go.id)

Semarang, 06 Februari 2019

Nomor : 070/945/2019  
Sifat : Biasa  
Lampiran : 1 (Satu) Berkas  
Perihal : Rekomendasi Penelitian

Kepada  
Yth. Kepala Dinas Pendidikan dan  
Kebudayaan Provinsi Jawa Tengah Di  
Semarang

Dalam rangka memperlancar pelaksanaan kegiatan penelitian bersama ini terlampir disampaikan Penelitian Nomor 070/9395/04.5/2019 Tanggal 06 Februari 2019 atas nama BENY RIZKI PRASEPTIYONO dengan judul proposal PERSEPSI SISWA TERHADAP KETERAMPILAN MENGAJAR MAHASISWA PLT JURUSAN PENDIDIKAN TEKNIK SIPIL DAN PERENCANAAN DI SMK NEGERI 1 MAGELANG 2018/2019, untuk dapat ditindaklanjuti.

Demikian untuk menjadi maklum dan terimakasih.

Pit. KEPALA DINAS PENANAMAN MODAL DAN  
PELAYANAN TERPADU SATU PINTU  
PROVINSI JAWA TENGAH  
Kepala Bidang Pengawasan dan Pengendalian  
Penanaman Modal

  
DIDIK SUBIYANTORO

Tembusan :

1. Gubernur Jawa Tengah;
2. Kepala Badan Kesbangpol Provinsi Jawa Tengah;
3. Kepala Badan Kesbangpol Daerah Istimewa Yogyakarta;
4. BENY RIZKI PRASEPTIYONO.



PEMERINTAH PROVINSI JAWA TENGAH  
DINAS PENDIDIKAN DAN KEBUDAYAAN  
**SEKOLAH MENENGAH KEJURUAN NEGERI 1 MAGELANG**  
Jalan Cawang Nomor 2 Kota Magelang Kode Pos 56123 Telepon 0293-362172-365543  
Faksimile 0293-368821 Surat Elektronik smkn1magelang@yahoo.com

SURAT KETERANGAN

Nomor : 421.5 / 1226 / 230.SMK.01

Menindak lanjuti surat dari Universitas Negeri Yogyakarta Fakultas Teknik nomor : 46/UN34.15/LT/2019 tanggal 24 Januari 2019 perihal Ijin Penelitian maka yang bertanda tangan dibawah ini :

|                    |                         |
|--------------------|-------------------------|
| Nama               | : Drs. Nisandi, M.T     |
| NIP                | : 19600814 198803 1 009 |
| Pangkat/gol. ruang | : Pembina Tk. I IV/b    |
| Jabatan            | : Kepala Sekolah        |
| Unit Kerja         | : SMK Negeri 1 Magelang |

Menerangkan dengan sesungguhnya bahwa :

|               |                                              |
|---------------|----------------------------------------------|
| Nama          | : Beny Rizki Praseptiyono                    |
| NIM           | : 13505241088                                |
| Program Studi | : Pendidikan Teknik Sipil & Perencanaan – S1 |

Adalah benar-benar telah melaksanakan penelitian di SMK Negeri 1 Magelang pada tanggal 4 s.d. 28 Februari 2019 dengan judul Penelitian "*Persepsi Siswa Terhadap Keterampilan Mengajar Mahasiswa PLT Jurusan Pendidikan Teknik Sipil dan Perencanaan di SMK Negeri 1 Magelang 2018/2019*".

Demikian surat keterangan ini dibuat dengan sesungguhnya untuk dapat dipergunakan sebagaimana mestinya.

Magelang, 18 Juli 2019  
Kepala SMK Negeri 1 Magelang

Drs. Nisandi, M.T  
Pembina Tk. I  
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