**LAMPIRAN A.1**

**KUESIONER PENELITIAN**

1. **Identitas Siswa**

Nama :

No. Absen :

1. **Petunjuk pengisian**
2. Isilah identitas diri anda sebelum menjawab pernyataan dibawah ini.
3. Jawaban yang anda berikan tidak ada hubungannya dengan penilaian di sekolah.
4. Bacalah setiap pernyataan dengan cermat dan teliti, pilih salah satu jawaban (Sangat Setuju, Setuju, Tidak setuju, Sangat Tidak setuju) yang sesuai dengan kondisi anda saat ini.
5. Pilihlah setiap pernyataan dengan jujur.
6. Selamat mengerjakan.
7. **Daftar Pernyataan Angket**
8. Saya menyambut positif penerapan pembelajaran fisika berbasis e-learning pada masa pandemi covid-19.
9. Sangat Setuju
10. Setuju
11. Tidak Setuju
12. Sangat Tidak Setuju
13. Jika saya kesulitan memahami materi pelajaran fisika yang dijelaskan oleh guru, saya berusaha mempelajari kembali materi tersebut.
14. Sangat Setuju
15. Setuju
16. Tidak setuju
17. Sangat Tidak Setuju
18. Penerapan pembelajaran fisika berbasis e-learning mendukung gerakan digitalisasi sekolah dimasa depan.
19. Sangat Setuju
20. Setuju
21. Tidak Setuju
22. Sangat Tidak Setuju
23. Aplikasi belajar yang digunakan selama pembelajaran e-learning cukup mudah digunakan.
24. Sangat Setuju
25. Setuju
26. Tidak Setuju
27. Sangat Tidak Setuju
28. Saya memiliki kemampuan komputer dasar (microsoft word, powepoint, excel, mengakses internet).
29. Sangat Setuju
30. Setuju
31. Tidak Setuju
32. Sangat Tidak Setuju
33. Pembelajaran fisika berbasis e-learning cocok diterapkan untuk menunjang era society 5.0 dalam dunia pendidikan dimasa depan.
34. Sangat Setuju
35. Setuju
36. Tidak Setuju
37. Sangat Tidak Setuju
38. Saya dapat mengikuti pembelajaran fisika berbasis e-learning dengan fasilitas internet yang memadai.
39. Sangat Setuju
40. Setuju
41. Tidak Setuju
42. Sangat Tidak Setuju
43. Saya selalu mencari referensi dari internet mengenai tugas fisika yang diberikan oleh guru.
44. Sangat Setju
45. Setuju
46. Tidak Setuju
47. Sangat Tidak Setuju
48. Saya sangat terbantu dengan adanya bantuan kuota belajar dari Kementerian Pendidikan dan Kebudayaan RI.
49. Sangat Setuju
50. Setuju
51. Tidak Setuju
52. Sangat Tidak Setuju
53. Selama penerapan pembelajaran fisika berbasis e-learning, saya selalu mengikutinya dengan serius dan penuh tanggung jawab.
54. Sangat Setuju
55. Setuju
56. Tidak Setuju
57. Sangat Tidak Setuju
58. Saya membuat catatan pelajaran setelah guru memberikan penjelasan dari materi yang diajarkan.
59. Sangat Setuju
60. Setuju
61. Tidak Setuju
62. Sangat Tidak Setuju
63. Ruang belajar dirumah saya rapi dan bersih sehingga membuat saya nyaman pada saat pembelajaran fisika berbasis e-learning berlangsung.
64. Sangat Setuju
65. Setuju
66. Tidak Setuju
67. Sangat Tidak Setuju
68. Saya mengikuti pembelajaran fisika berbasis e-learning tanpa merasa terbebani.
69. Sangat Setuju
70. Setuju
71. Tidak Setuju
72. Sangat Tidak Setuju
73. Saya belajar dengan nyaman dirumah tanpa terganggu oleh keberadaan anggota keluarga yang lain.
74. Sangat Setuju
75. Setuju
76. Tidak Setuju
77. Sangat Tidak Setuju
78. Saya mengerjakan sendiri tugas fisika yang diberikan oleh guru selama pembelajaran e-learning.
79. Sangat Setuju
80. Setuju
81. Tidak Setuju
82. Sangat Tidak Setuju
83. Sirkulasi udara ruangan belajar dirumah saya terpenuhi.
84. Sangat Setuju
85. Setuju
86. Tidak Setuju
87. Sangat Tidak Setuju
88. Penerapan pembelajaran fisika berbasis e-learning dapat mengadopsi nilai-nilai digital dalam pembelajaran fisika dimasa depan.
89. Sangat Setuju
90. Setuju
91. Tidak Setuju
92. Sangat Tidak Setuju
93. Lingkungan sekitar ruang belajar dirumah saya jauh dari kebisingan.
94. Sangat Setuju
95. Setuju
96. Tidak Setuju
97. Sangat Tidak Setuju
98. Pembelajaran fisika berbasis e-learning dapat dilaksanakan kapan saja dan dimana saja. Oleh karena itu, e-learning cocok diterapkan meskipun pandemi covid-19 telah selesai.
99. Sangat Setuju
100. Setuju
101. Tidak Setuju
102. Sangat Tidak Setuju
103. Saya memiliki fasilitas belajar (HP, Komputer/laptop, Tab, Kuota, dll).
104. Sangat Setuju
105. Setuju
106. Tidak Setuju
107. Sangat Tidak Setuju
108. Saya mudah mendapatkan sumber belajar selama proses pembelajaran fisika berbasis e-learning pada masa pandemi covid-19.
109. Sangat Setuju
110. Setuju
111. Tidak Setuju
112. Sangat Tidak Setuju
113. Saya senang mengikuti pembelajaran fisika dan menerima perubahan proses pembelajaran dengan menerapkan e-learning selama pandemi covid-19.
114. Sangat Setuju
115. Setuju
116. Tidak Setuju
117. Sangat Tidak Setuju
118. Fasilitas belajar yang nyaman dirumah mendorong saya untuk belajar lebih rajin.
119. Sangat Setuju
120. Setuju
121. Tidak Setuju
122. Sangat Tidak Setuju
123. Selama mengikuti pembelajaran e-learning, saya selalu mendapat perhatian dari guru.
124. Sangat Setuju
125. Setuju
126. Tidak Setuju
127. Sangat Tidak Setuju
128. Pembelajaran berbasis e-learning dapat mengubah daya pikir siswa menjadi lebih kreatif dan inovatif dimasa depan.
129. Sangat Setuju
130. Setuju
131. Tidak Setuju
132. Sangat Tidak Setuju

**LAMPIRAN A.3**

**LEMBAR VALIDASI KUESIONER**

**LAMPIRAN A.4.1**

**TABEL ANALISIS**

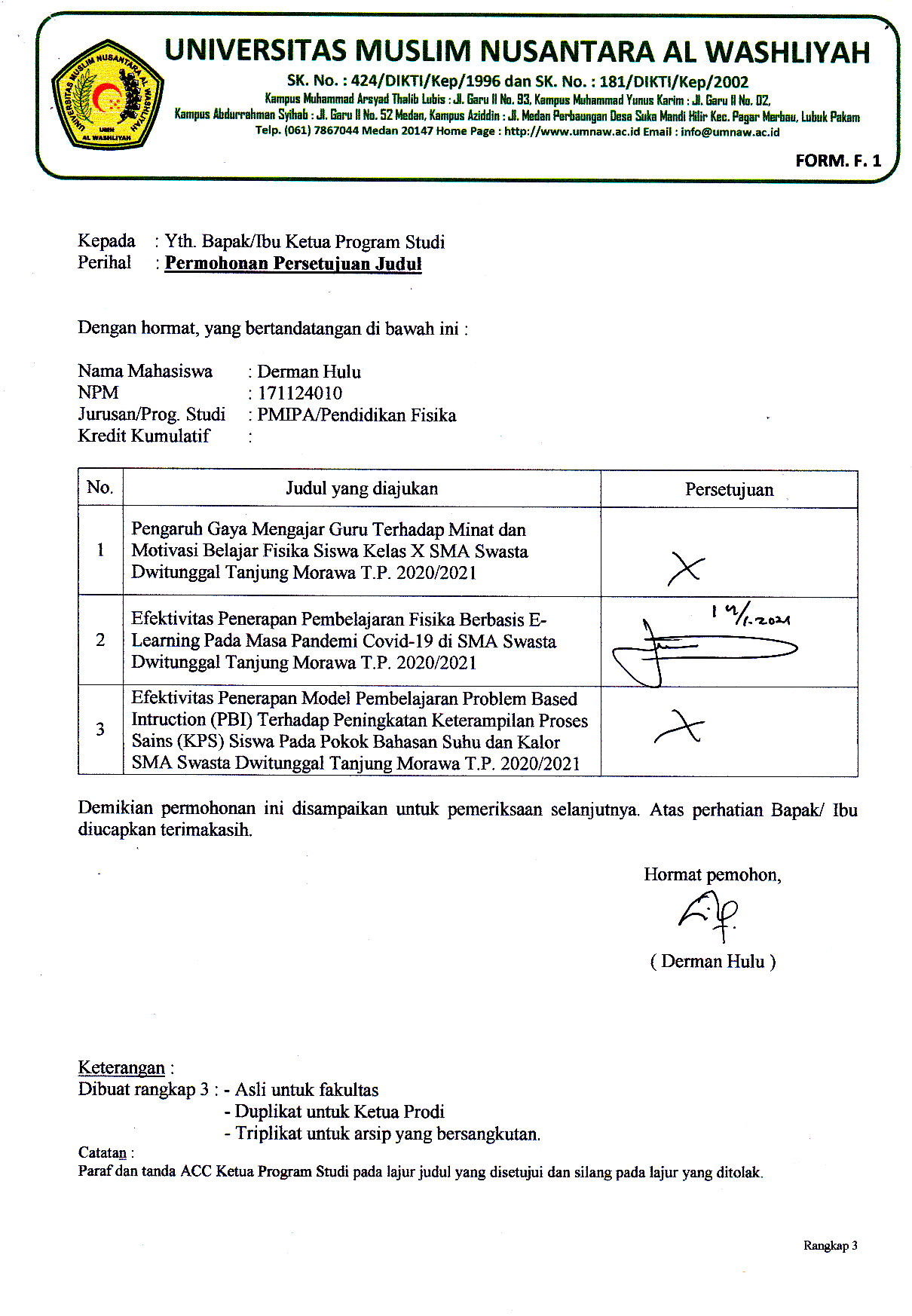
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| **Kode Responden** | **No. Absen** | **Indikator** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Kesiapan Siswa Mengikuti Pembelajaran Fisika Berbasis E-Learning** | | | | | | | | | **Kenyamanan Siswa Mengikuti Pembelajaran Fisika Berbasis E-Learning** | | | | | | | | | **Kecukupan Sarana dan Prasarana Pendukung Pembelajaran Fisika Berbasis E-Learning** | | | | | | | | | **Aspek Kemandirian Belajar Siswa** | | | | | | | | | **Komitmen Siswa Pada Pembelajaran Fisika Berbasis E-Learning Pasca Pandemi Covid-19** | | | | | | | | |
|
| **P1** | **P5** | **P10** | **P13** | **P22** | **Jumlah (S)** | **Skor Maks (N)** | **%** | **%Rata-rata** | **P12** | **P14** | **P16** | **P18** | **P24** | **Jumlah (S)** | **Skor Maks (N)** | **%** | **%Rata-rata** | **P4** | **P7** | **P9** | **P20** | **P23** | **Jumlah (S)** | **Skor Maks (N)** | **%** | **%Rata-rata** | **P2** | **P8** | **P11** | **P15** | **P21** | **Jumlah (S)** | **Skor Maks (N)** | **%** | **%Rata-rata** | **P3** | **P6** | **P17** | **P19** | **P25** | **Jumlah (S)** | **Skor Maks (N)** | **%** | **%Rata-rata** |
| **R1** | 12 | 2 | 2 | 3 | 2 | 2 | 11 | 20 | 55 | 72.4 | 3 | 2 | 3 | 2 | 2 | 12 | 20 | 60 | 69.3 | 3 | 2 | 3 | 1 | 3 | 12 | 20 | 60 | 75.1 | 3 | 2 | 3 | 3 | 2 | 13 | 20 | 65 | 73.7 | 2 | 2 | 2 | 2 | 1 | 9 | 20 | 45 | 73.6 |
| **R2** | 1 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 4 | 4 | 3 | 17 | 20 | 85 | 3 | 3 | 4 | 3 | 3 | 16 | 20 | 80 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 2 | 3 | 14 | 20 | 70 |
| **R3** | 26 | 3 | 2 | 3 | 3 | 3 | 14 | 20 | 70 | 3 | 3 | 3 | 2 | 2 | 13 | 20 | 65 | 3 | 3 | 3 | 2 | 3 | 14 | 20 | 70 | 3 | 3 | 3 | 3 | 2 | 14 | 20 | 70 | 3 | 2 | 2 | 3 | 2 | 12 | 20 | 60 |
| **R4** | 8 | 4 | 3 | 4 | 4 | 4 | 19 | 20 | 95 | 4 | 4 | 4 | 4 | 4 | 20 | 20 | 100 | 4 | 4 | 4 | 4 | 4 | 20 | 20 | 100 | 4 | 4 | 4 | 4 | 4 | 20 | 20 | 100 | 4 | 4 | 4 | 4 | 4 | 20 | 20 | 100 |
| **R5** | 33 | 3 | 3 | 3 | 2 | 2 | 13 | 20 | 65 | 3 | 3 | 2 | 2 | 2 | 12 | 20 | 60 | 3 | 3 | 4 | 2 | 2 | 14 | 20 | 70 | 3 | 3 | 3 | 4 | 2 | 15 | 20 | 75 | 2 | 2 | 2 | 3 | 3 | 12 | 20 | 60 |
| **R6** | 29 | 3 | 2 | 2 | 3 | 3 | 13 | 20 | 65 | 2 | 3 | 3 | 3 | 3 | 14 | 20 | 70 | 3 | 3 | 3 | 2 | 2 | 13 | 20 | 65 | 2 | 2 | 3 | 3 | 2 | 12 | 20 | 60 | 3 | 2 | 3 | 2 | 3 | 13 | 20 | 65 |
| **R7** | 15 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 2 | 3 | 3 | 3 | 14 | 20 | 70 | 4 | 3 | 4 | 3 | 3 | 17 | 20 | 85 | 3 | 3 | 3 | 3 | 2 | 14 | 20 | 70 | 3 | 2 | 3 | 3 | 2 | 13 | 20 | 65 |
| **R8** | 5 | 3 | 4 | 3 | 3 | 3 | 16 | 20 | 80 | 3 | 2 | 2 | 3 | 2 | 12 | 20 | 60 | 4 | 3 | 4 | 2 | 2 | 15 | 20 | 75 | 3 | 2 | 3 | 3 | 2 | 13 | 20 | 65 | 4 | 4 | 3 | 4 | 2 | 17 | 20 | 85 |
| **R9** | 13 | 4 | 3 | 4 | 2 | 3 | 16 | 20 | 80 | 3 | 2 | 3 | 1 | 1 | 10 | 20 | 50 | 2 | 4 | 3 | 3 | 4 | 16 | 20 | 80 | 1 | 3 | 3 | 4 | 3 | 14 | 20 | 70 | 3 | 3 | 4 | 2 | 4 | 16 | 20 | 80 |
| **R10** | 17 | 1 | 3 | 2 | 3 | 4 | 13 | 20 | 65 | 3 | 2 | 3 | 3 | 1 | 12 | 20 | 60 | 2 | 4 | 4 | 3 | 2 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 2 | 14 | 20 | 70 | 4 | 3 | 4 | 3 | 4 | 18 | 20 | 90 |
| **R11** | 27 | 2 | 2 | 3 | 3 | 3 | 13 | 20 | 65 | 3 | 2 | 2 | 2 | 2 | 11 | 20 | 55 | 3 | 2 | 4 | 3 | 4 | 16 | 20 | 80 | 2 | 4 | 4 | 2 | 4 | 16 | 20 | 80 | 4 | 2 | 2 | 2 | 2 | 12 | 20 | 60 |
| **R12** | 22 | 1 | 1 | 2 | 4 | 2 | 10 | 20 | 50 | 3 | 2 | 2 | 3 | 4 | 14 | 20 | 70 | 4 | 2 | 3 | 2 | 3 | 14 | 20 | 70 | 4 | 3 | 4 | 4 | 3 | 18 | 20 | 90 | 4 | 4 | 2 | 3 | 2 | 15 | 20 | 75 |
| **R13** | 18 | 4 | 4 | 4 | 2 | 3 | 17 | 20 | 85 | 2 | 3 | 3 | 2 | 3 | 13 | 20 | 65 | 4 | 3 | 3 | 4 | 3 | 17 | 20 | 85 | 3 | 2 | 3 | 4 | 3 | 15 | 20 | 75 | 3 | 3 | 2 | 3 | 3 | 14 | 20 | 70 |
| **R14** | 9 | 4 | 3 | 3 | 3 | 3 | 16 | 20 | 80 | 3 | 4 | 3 | 3 | 3 | 16 | 20 | 80 | 3 | 3 | 4 | 4 | 3 | 17 | 20 | 85 | 4 | 4 | 3 | 3 | 3 | 17 | 20 | 85 | 4 | 4 | 4 | 4 | 4 | 20 | 20 | 100 |
| **R15** | 28 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 |
| **R16** | 25 | 2 | 3 | 3 | 2 | 3 | 13 | 20 | 65 | 3 | 2 | 3 | 2 | 2 | 12 | 20 | 60 | 2 | 3 | 4 | 3 | 2 | 14 | 20 | 70 | 4 | 3 | 3 | 2 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 2 | 3 | 14 | 20 | 70 |
| **R17** | 6 | 4 | 3 | 3 | 3 | 3 | 16 | 20 | 80 | 4 | 3 | 4 | 3 | 3 | 17 | 20 | 85 | 4 | 3 | 4 | 4 | 3 | 18 | 20 | 90 | 3 | 2 | 3 | 3 | 4 | 15 | 20 | 75 | 3 | 4 | 3 | 4 | 3 | 17 | 20 | 85 |
| **R18** | 32 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 4 | 3 | 3 | 16 | 20 | 80 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 4 | 3 | 3 | 3 | 3 | 16 | 20 | 80 |
| **R19** | 10 | 2 | 2 | 3 | 2 | 3 | 12 | 20 | 60 | 3 | 2 | 3 | 2 | 3 | 13 | 20 | 65 | 3 | 3 | 3 | 2 | 2 | 13 | 20 | 65 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 |
| **R20** | 2 | 2 | 4 | 3 | 3 | 2 | 14 | 20 | 70 | 2 | 1 | 3 | 4 | 3 | 13 | 20 | 65 | 2 | 1 | 3 | 3 | 3 | 12 | 20 | 60 | 4 | 2 | 4 | 3 | 3 | 16 | 20 | 80 | 2 | 4 | 4 | 2 | 3 | 15 | 20 | 75 |
| **R21** | 20 | 2 | 4 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 4 | 3 | 2 | 2 | 14 | 20 | 70 | 2 | 4 | 4 | 3 | 3 | 16 | 20 | 80 | 2 | 4 | 3 | 2 | 2 | 13 | 20 | 65 | 4 | 4 | 3 | 2 | 4 | 17 | 20 | 85 |
| **R22** | 7 | 4 | 3 | 2 | 2 | 3 | 14 | 20 | 70 | 4 | 3 | 3 | 3 | 4 | 17 | 20 | 85 | 4 | 2 | 4 | 2 | 3 | 15 | 20 | 75 | 3 | 4 | 3 | 2 | 4 | 16 | 20 | 80 | 3 | 3 | 4 | 2 | 2 | 14 | 20 | 70 |
| **R23** | 16 | 3 | 4 | 3 | 2 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 4 | 16 | 20 | 80 | 3 | 4 | 4 | 2 | 4 | 17 | 20 | 85 | 4 | 3 | 3 | 3 | 3 | 16 | 20 | 80 | 3 | 4 | 3 | 4 | 3 | 17 | 20 | 85 |
| **R24** | 24 | 2 | 3 | 2 | 2 | 3 | 12 | 20 | 60 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 2 | 3 | 14 | 20 | 70 | 2 | 3 | 3 | 3 | 4 | 15 | 20 | 75 | 4 | 3 | 2 | 3 | 3 | 15 | 20 | 75 |
| **R25** | 19 | 3 | 3 | 3 | 3 | 2 | 14 | 20 | 70 | 3 | 2 | 2 | 2 | 3 | 12 | 20 | 60 | 2 | 3 | 3 | 3 | 2 | 13 | 20 | 65 | 3 | 3 | 3 | 3 | 4 | 16 | 20 | 80 | 4 | 2 | 2 | 3 | 4 | 15 | 20 | 75 |
| **R26** | 3 | 4 | 3 | 3 | 2 | 3 | 15 | 20 | 75 | 3 | 4 | 2 | 2 | 2 | 13 | 20 | 65 | 4 | 2 | 3 | 4 | 2 | 15 | 20 | 75 | 3 | 4 | 2 | 4 | 2 | 15 | 20 | 75 | 3 | 4 | 2 | 3 | 2 | 14 | 20 | 70 |
| **R27** | 31 | 4 | 3 | 3 | 3 | 3 | 16 | 20 | 80 | 3 | 4 | 2 | 3 | 3 | 15 | 20 | 75 | 4 | 2 | 3 | 3 | 4 | 16 | 20 | 80 | 2 | 3 | 3 | 2 | 3 | 13 | 20 | 65 | 4 | 2 | 3 | 2 | 3 | 14 | 20 | 70 |
| **R28** | 4 | 3 | 2 | 3 | 3 | 3 | 14 | 20 | 70 | 2 | 1 | 4 | 4 | 4 | 15 | 20 | 75 | 3 | 4 | 4 | 2 | 2 | 15 | 20 | 75 | 2 | 2 | 3 | 2 | 3 | 12 | 20 | 60 | 2 | 3 | 3 | 4 | 1 | 13 | 20 | 65 |
| **R29** | 30 | 2 | 3 | 4 | 3 | 3 | 15 | 20 | 75 | 2 | 3 | 2 | 4 | 1 | 12 | 20 | 60 | 3 | 4 | 2 | 3 | 3 | 15 | 20 | 75 | 2 | 3 | 4 | 3 | 3 | 15 | 20 | 75 | 3 | 4 | 3 | 2 | 3 | 15 | 20 | 75 |
| **R30** | 11 | 2 | 4 | 4 | 3 | 3 | 16 | 20 | 80 | 2 | 2 | 2 | 4 | 3 | 13 | 20 | 65 | 4 | 3 | 4 | 2 | 3 | 16 | 20 | 80 | 4 | 3 | 3 | 2 | 2 | 14 | 20 | 70 | 1 | 4 | 4 | 2 | 3 | 14 | 20 | 70 |
| **R31** | 23 | 4 | 3 | 3 | 4 | 2 | 16 | 20 | 80 | 4 | 3 | 2 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 4 | 3 | 2 | 2 | 14 | 20 | 70 | 3 | 3 | 2 | 3 | 2 | 13 | 20 | 65 |
| **R32** | 21 | 3 | 3 | 3 | 2 | 3 | 14 | 20 | 70 | 2 | 2 | 3 | 4 | 2 | 13 | 20 | 65 | 2 | 3 | 2 | 2 | 2 | 11 | 20 | 55 | 3 | 4 | 3 | 2 | 2 | 14 | 20 | 70 | 4 | 2 | 2 | 3 | 4 | 15 | 20 | 75 |
| **R33** | 14 | 3 | 2 | 3 | 3 | 3 | 14 | 20 | 70 | 2 | 2 | 3 | 2 | 2 | 11 | 20 | 55 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 2 | 3 | 3 | 2 | 2 | 12 | 20 | 60 | 3 | 2 | 3 | 2 | 3 | 13 | 20 | 65 |
| **R34** | 35 | 3 | 4 | 3 | 3 | 2 | 15 | 20 | 75 | 3 | 2 | 3 | 2 | 2 | 12 | 20 | 60 | 3 | 4 | 3 | 2 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 2 | 3 | 14 | 20 | 70 |
| **R35** | 34 | 3 | 3 | 4 | 3 | 3 | 16 | 20 | 80 | 3 | 4 | 4 | 3 | 3 | 17 | 20 | 85 | 3 | 2 | 3 | 3 | 3 | 14 | 20 | 70 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 | 3 | 3 | 3 | 3 | 3 | 15 | 20 | 75 |
| **Jumlah (S)** | | 101 | 103 | 106 | 97 | 100 | 507 |  |  | 101 | 93 | 100 | 98 | 93 | 485 |  |  | 108 | 104 | 119 | 95 | 100 | 526 |  |  | 102 | 106 | 109 | 101 | 98 | 516 |  |  | 111 | 106 | 101 | 97 | 100 | 515 |  |  |
| **Skor Maks (N)** | | 140 | 140 | 140 | 140 | 140 |  |  |  | 140 | 140 | 140 | 140 | 140 |  |  |  | 140 | 140 | 140 | 140 | 140 |  |  |  | 140 | 140 | 140 | 140 | 140 |  |  |  | 140 | 140 | 140 | 140 | 140 |  |  |  |
| **%** | | 72.1 | 73.6 | 75.7 | 69.3 | 71.4 |  |  |  | 72.1 | 66.4 | 71.4 | 70.0 | 66.4 |  |  |  | 77.1 | 74.3 | 85.0 | 67.9 | 71.4 |  |  |  | 72.9 | 75.7 | 77.9 | 72.1 | 70.0 |  |  |  | 79.3 | 75.7 | 72.1 | 69.3 | 71.4 |  |  |  |
| **%Rata-rata** | | 72.4 | | | | |  | | | | 69.3 | | | | |  | | | | 75.1 | | | | |  | | | | 73.7 | | | | |  | | | | 73.6 | | | | |  | | | |

**LAMPIRAN A.4.2**

**DATA RATA-RATA PERSENTASE PER ITEM PERNYATAAN**

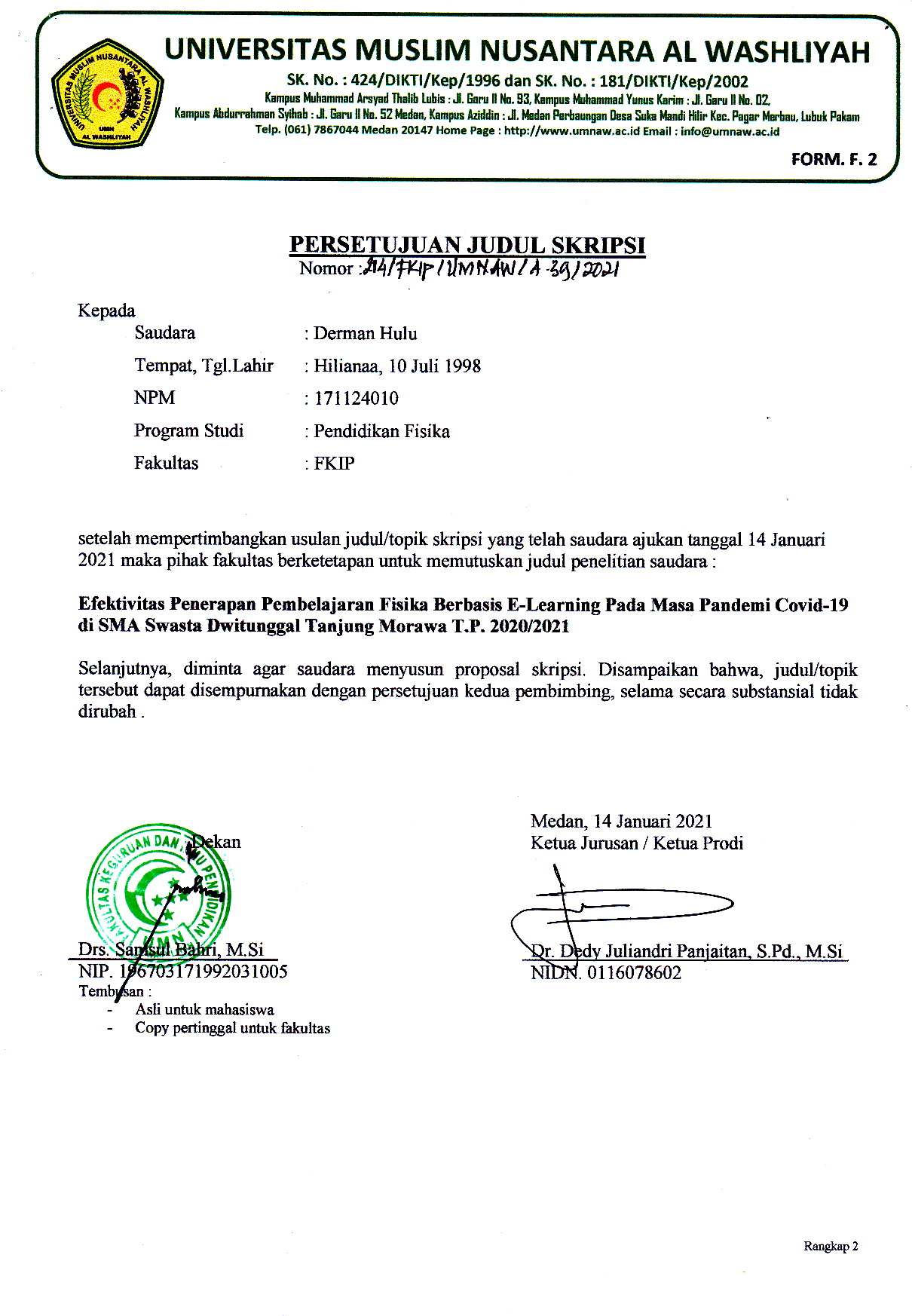
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| ­ | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 | R16 | R17 | R18 | R19 | R20 | R21 | R22 | R23 | R24 | R25 | R26 | R27 | R28 | R29 | R30 | R31 | R32 | R33 | R34 | R35 | SS | S | TS | STS | Total | SS | S | TS | STS |
| **P1** | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 1 | 2 | 1 | 4 | 4 | 3 | 2 | 4 | 3 | 2 | 2 | 2 | 4 | 3 | 2 | 3 | 4 | 4 | 3 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 9 | 15 | 9 | 2 | 35 | 25.7 | 42.9 | 25.7 | 5.71 |
| **P2** | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 1 | 3 | 2 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 2 | 3 | 4 | 2 | 3 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 2 | 3 | 3 | 7 | 19 | 8 | 1 | 35 | 20.0 | 54.3 | 22.9 | 2.86 |
| **P3** | 2 | 3 | 3 | 4 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 2 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 2 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 12 | 18 | 4 | 1 | 35 | 34.3 | 51.4 | 11.4 | 2.86 |
| **P4** | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 2 | 2 | 3 | 4 | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 3 | 10 | 18 | 7 | 0 | 35 | 28.6 | 51.4 | 20.0 | 0.00 |
| **P5** | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 1 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 7 | 20 | 7 | 1 | 35 | 20.0 | 57.1 | 20.0 | 2.86 |
| **P6** | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 4 | 3 | 3 | 2 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 2 | 4 | 2 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 11 | 14 | 10 | 0 | 35 | 31.4 | 40.0 | 28.6 | 0.00 |
| **P7** | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 2 | 4 | 3 | 3 | 2 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 2 | 8 | 19 | 7 | 1 | 35 | 22.9 | 54.3 | 20.0 | 2.86 |
| **P8** | 2 | 3 | 3 | 4 | 3 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 2 | 4 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 8 | 20 | 7 | 0 | 35 | 22.9 | 57.1 | 20.0 | 0.00 |
| **P9** | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 2 | 4 | 3 | 2 | 3 | 3 | 3 | 16 | 17 | 2 | 0 | 35 | 45.7 | 48.6 | 5.7 | 0.00 |
| **P10** | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 6 | 24 | 5 | 0 | 35 | 17.1 | 68.6 | 14.3 | 0.00 |
| **P11** | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 29 | 1 | 0 | 35 | 14.3 | 82.9 | 2.9 | 0.00 |
| **P12** | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 2 | 3 | 3 | 4 | 23 | 8 | 0 | 35 | 11.4 | 65.7 | 22.9 | 0.00 |
| **P13** | 2 | 3 | 3 | 4 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 21 | 11 | 0 | 35 | 8.6 | 60.0 | 31.4 | 0.00 |
| **P14** | 2 | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 1 | 4 | 3 | 3 | 3 | 2 | 4 | 4 | 1 | 3 | 2 | 3 | 2 | 2 | 2 | 4 | 6 | 13 | 14 | 2 | 35 | 17.1 | 37.1 | 40.0 | 5.71 |
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| **P16** | 3 | 4 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | ! | 3 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 19 | 10 | 0 | 34 | 14.7 | 55.9 | 29.4 | 0.00 |
| **P17** | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 3 | 7 | 17 | 11 | 0 | 35 | 20.0 | 48.6 | 31.4 | 0.00 |
| **P18** | 2 | 4 | 2 | 4 | 2 | 3 | 3 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 4 | 4 | 3 | 4 | 2 | 2 | 3 | 7 | 15 | 12 | 1 | 35 | 20.0 | 42.9 | 34.3 | 2.86 |
| **P19** | 2 | 2 | 3 | 4 | 3 | 2 | 3 | 4 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 3 | 2 | 4 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 6 | 15 | 14 | 0 | 35 | 17.1 | 42.9 | 40.0 | 0.00 |
| **P20** | 1 | 3 | 2 | 4 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 4 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 5 | 16 | 13 | 1 | 35 | 14.3 | 45.7 | 37.1 | 2.86 |
| **P21** | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 6 | 16 | 13 | 0 | 35 | 17.1 | 45.7 | 37.1 | 0.00 |
| **P22** | 2 | 3 | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 26 | 7 | 0 | 35 | 5.7 | 74.3 | 20.0 | 0.00 |
| **P23** | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 2 | 4 | 2 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 2 | 2 | 4 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 5 | 20 | 10 | 0 | 35 | 14.3 | 57.1 | 28.6 | 0.00 |
| **P24** | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 1 | 1 | 2 | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 2 | 3 | 4 | 1 | 3 | 3 | 2 | 2 | 2 | 3 | 5 | 16 | 11 | 3 | 35 | 14.3 | 45.7 | 31.4 | 8.57 |
| **P25** | 1 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | 4 | 4 | 2 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 4 | 2 | 3 | 1 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 7 | 18 | 8 | 2 | 35 | 20.0 | 51.4 | 22.9 | 5.71 |

**LAMPIRAN B.1**

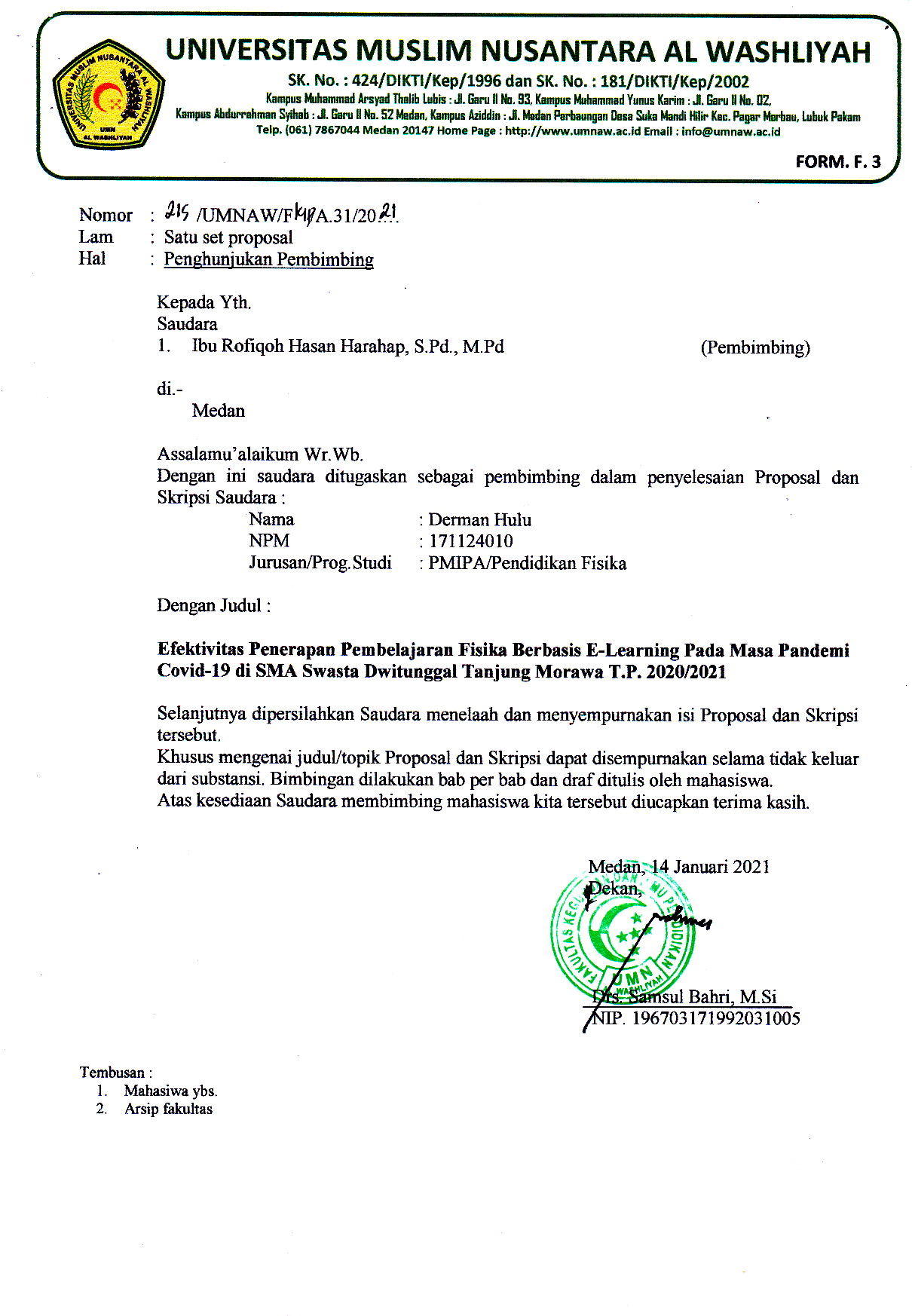
**DOKUMEN PENGAJUAN JUDUL**

**LAMPIRAN B.2**

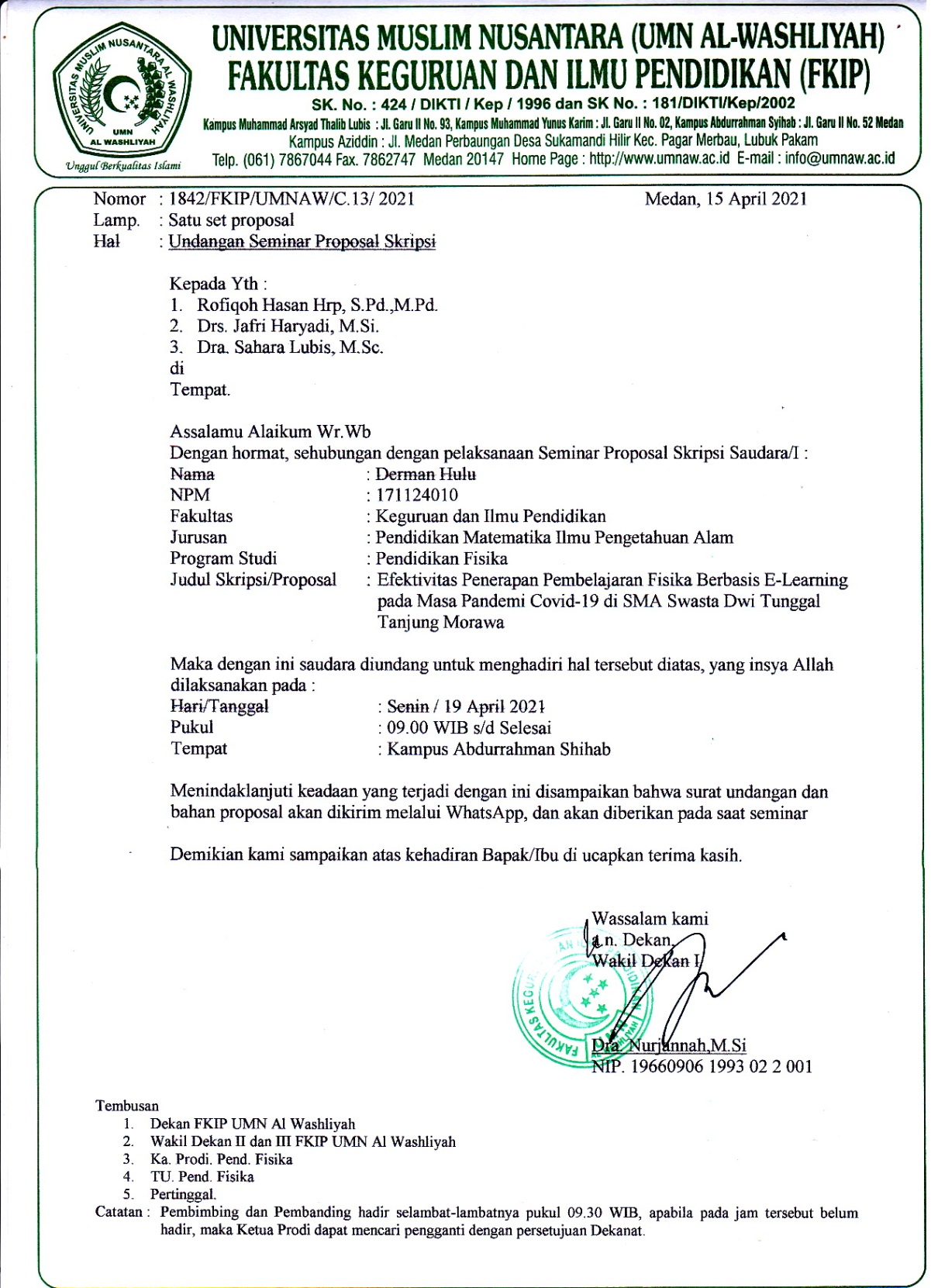
**DOKUMEN PERSETUJUAN JUDUL (F.2)**

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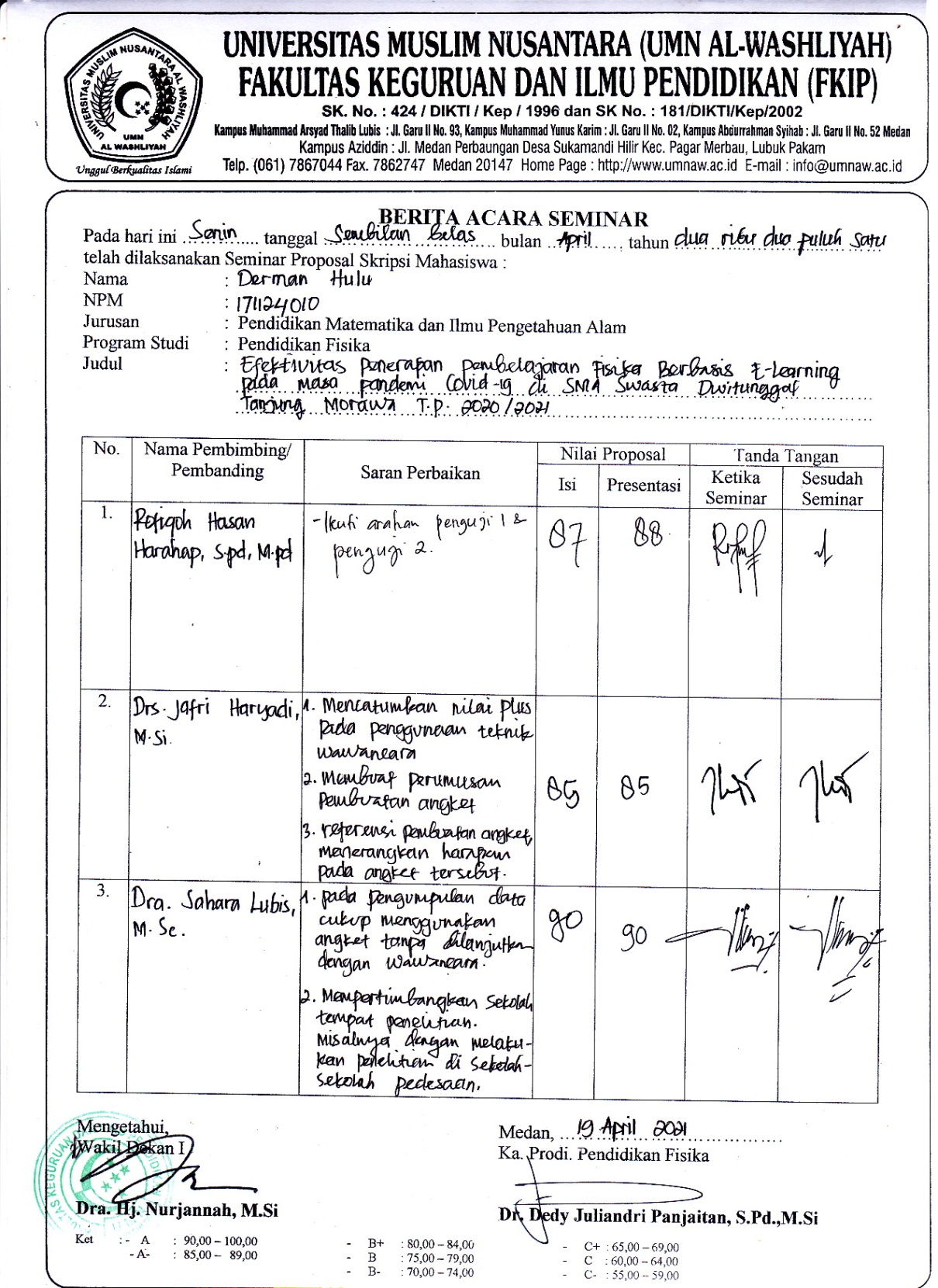
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**PENGHUNJUKAN PEMBEIMBING (F.3)**

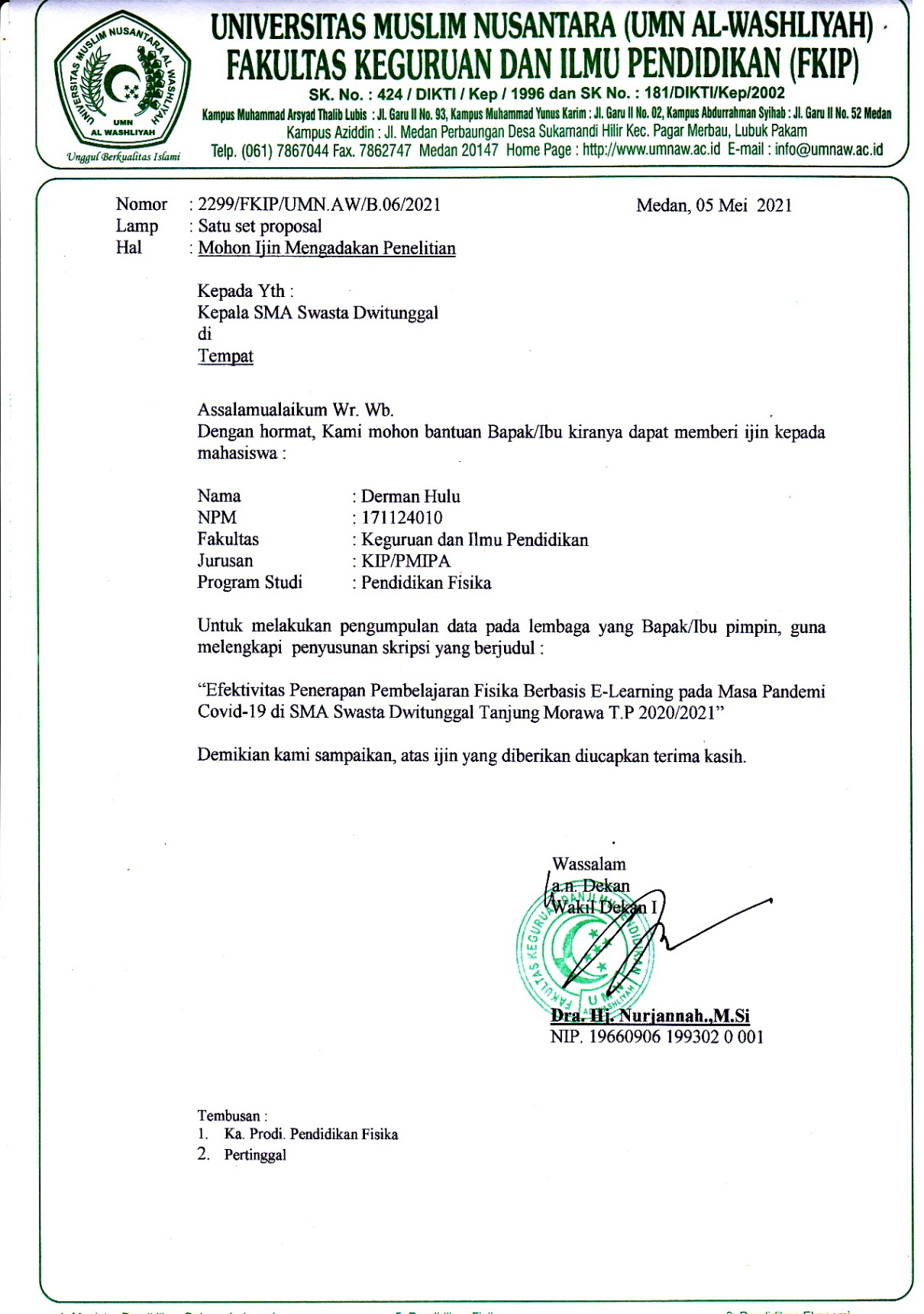
**LAMPIRAN B.4**

**UNDANGAN SEMINAR PROPOSAL**

**LAMPIRAN B.5**

**BERITA ACARA SEMINAR PROPOSAL**

**LAMPIRAN B.6**

**SURAT IJIN PENELITIAN**

**LAMPIRAN B.7**

**SURAT KETERANGAN PENELITIAN**

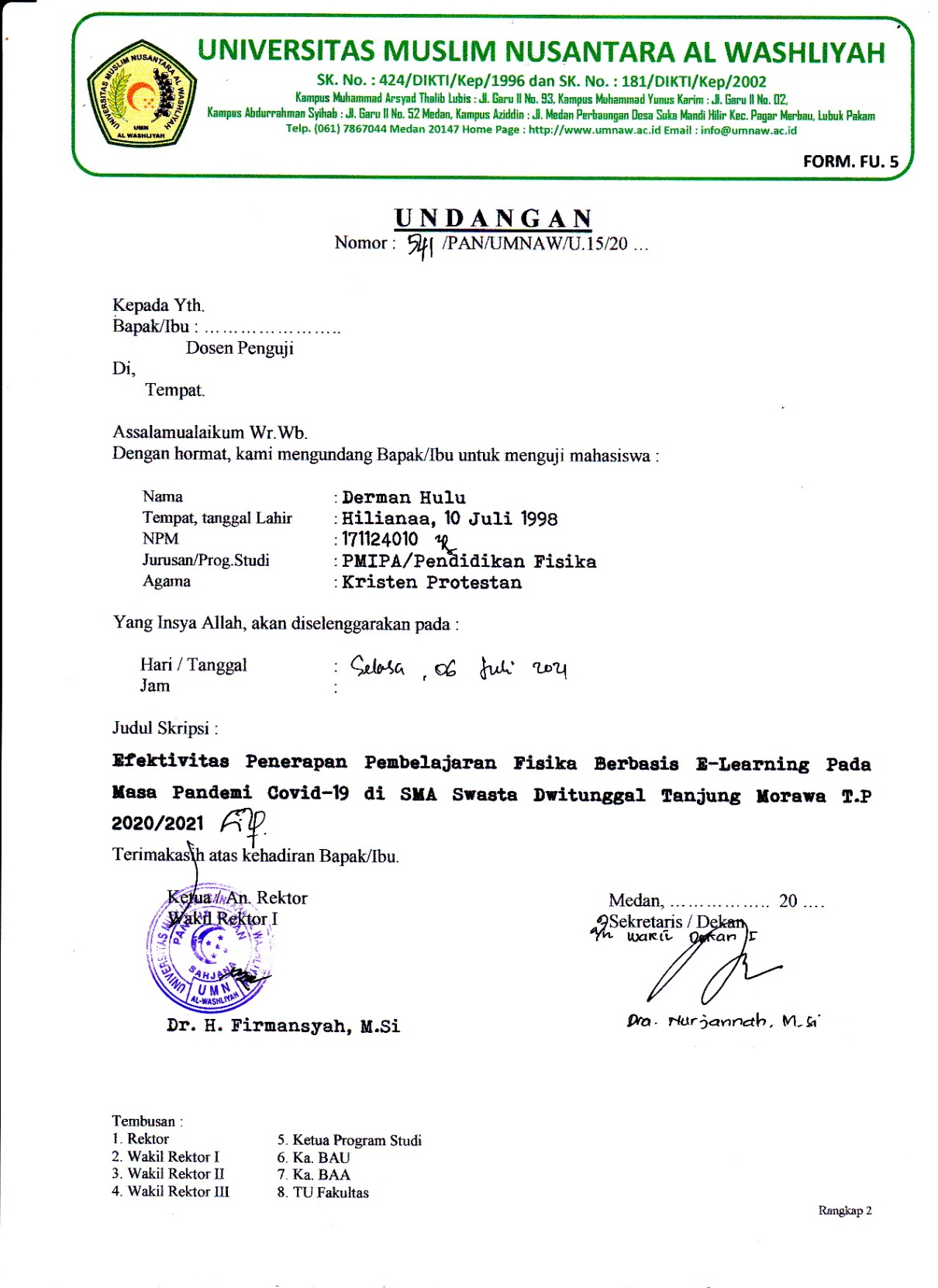
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**LAMPIRAN B.8**

**BERITA ACARA BIMBINGAN (F.4)**

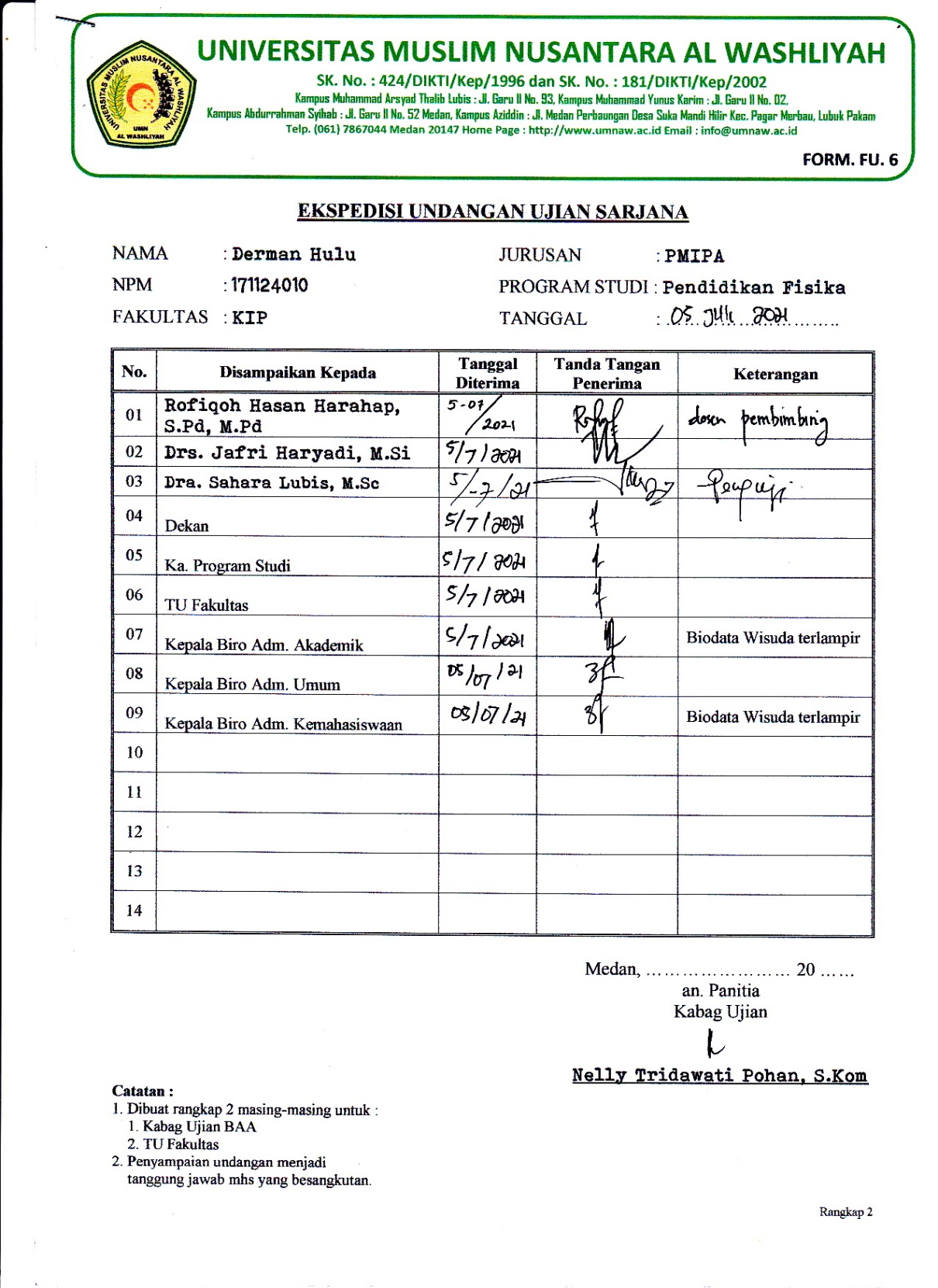
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**UNDANGAN SIDANG (F.5)**

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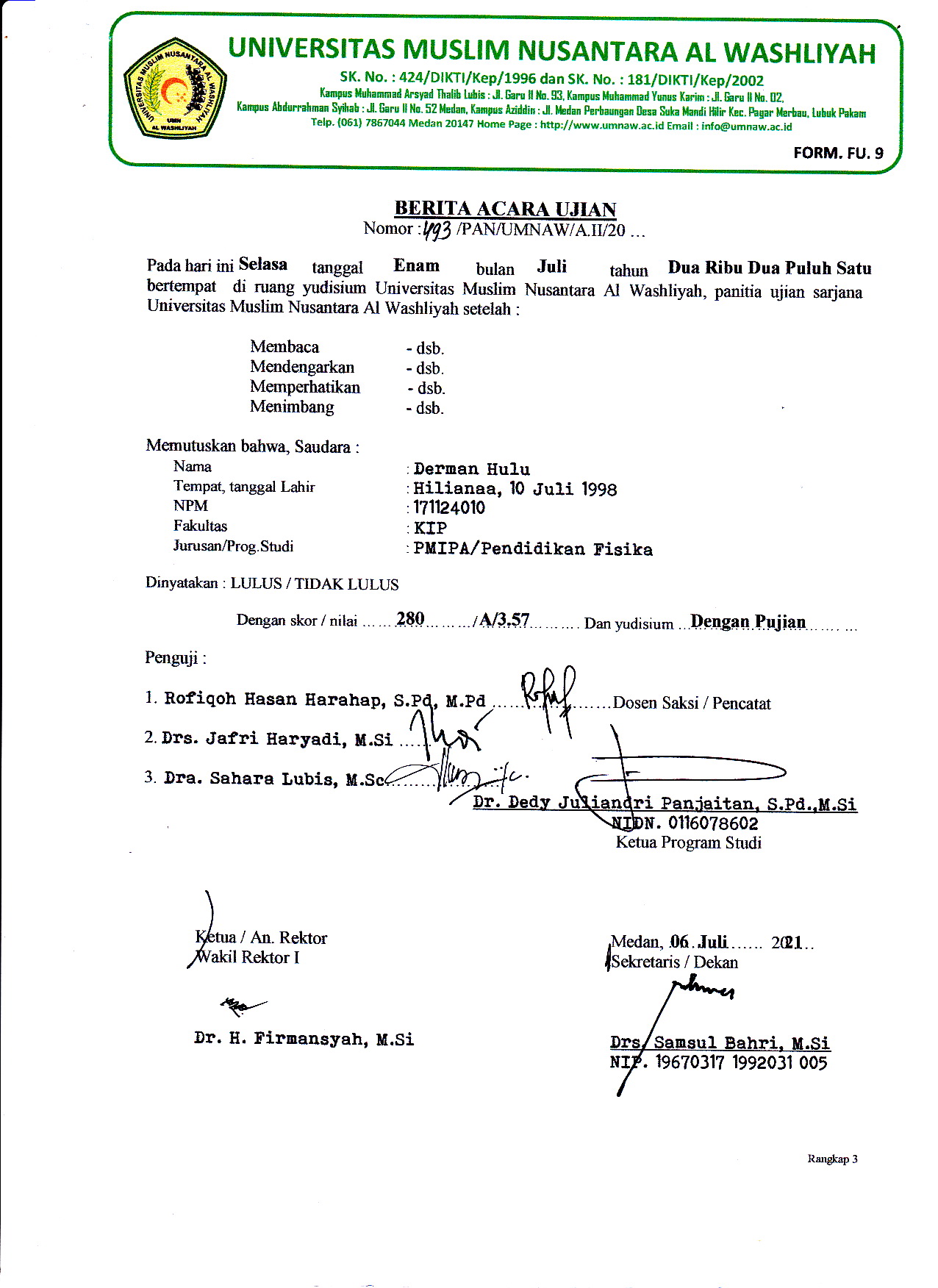
**LAMPIRAN B.10**

**EKSPEDISI UNDANGAN SIDANG (FU.6)**

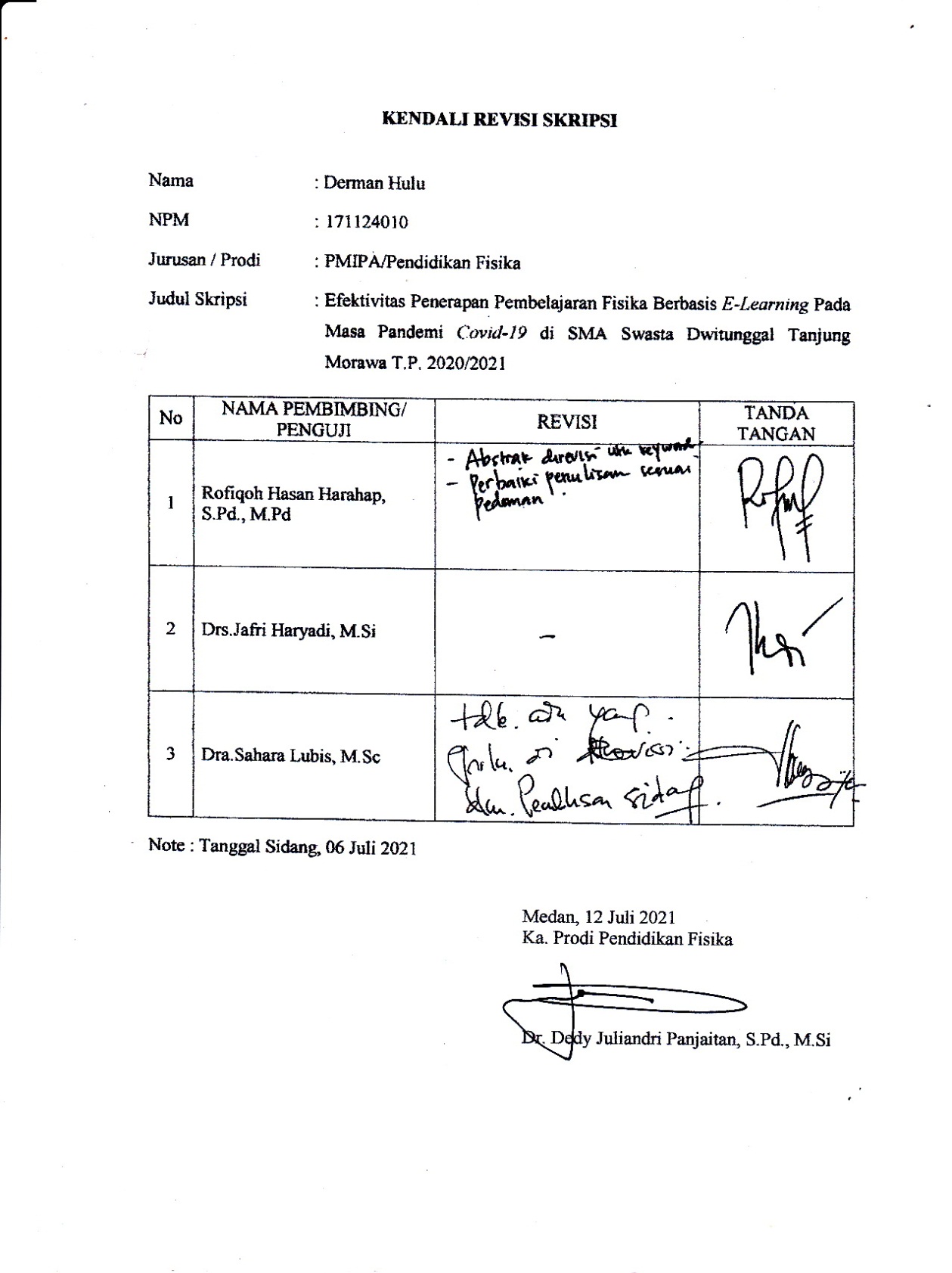
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**LAMPIRAN B.11**

**BERITA ACARA SIDANG (FU.9)**

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**LAMPIRAN B.12**

**EVALUASI PERBAIKI SIDANG**

**LAMPIRAN B.13**

**BIODATA MAHASISWA**

**I. Identitas Diri**

Nama : Derman Hulu

NPM : 171124010

Tempat Tanggal Lahir : Hiliana’a, 10 Juli 1998

Agama : Kristen Protestan

Anak ke- : 6 (enam)

Alamat : Jl. Garu I, Gg. Cempedak, Medan

**II. Pendidikan**

SD : SDN. No. 076710 Hiliana’a Hoya

SMP : SMP Negeri 4 Mazo

SMA : SMA Negeri 1 Gomo

S1 : UMN Al Washliyah Medan

Judul Skripsi : Efektivitas Penerapan Pembelajaran Fisika Berbasis E-Learning Pada Masa Pandemi Covid-19 di SMA Swasta Dwitunggal Tanjung Morawa T.P. 2020/2021

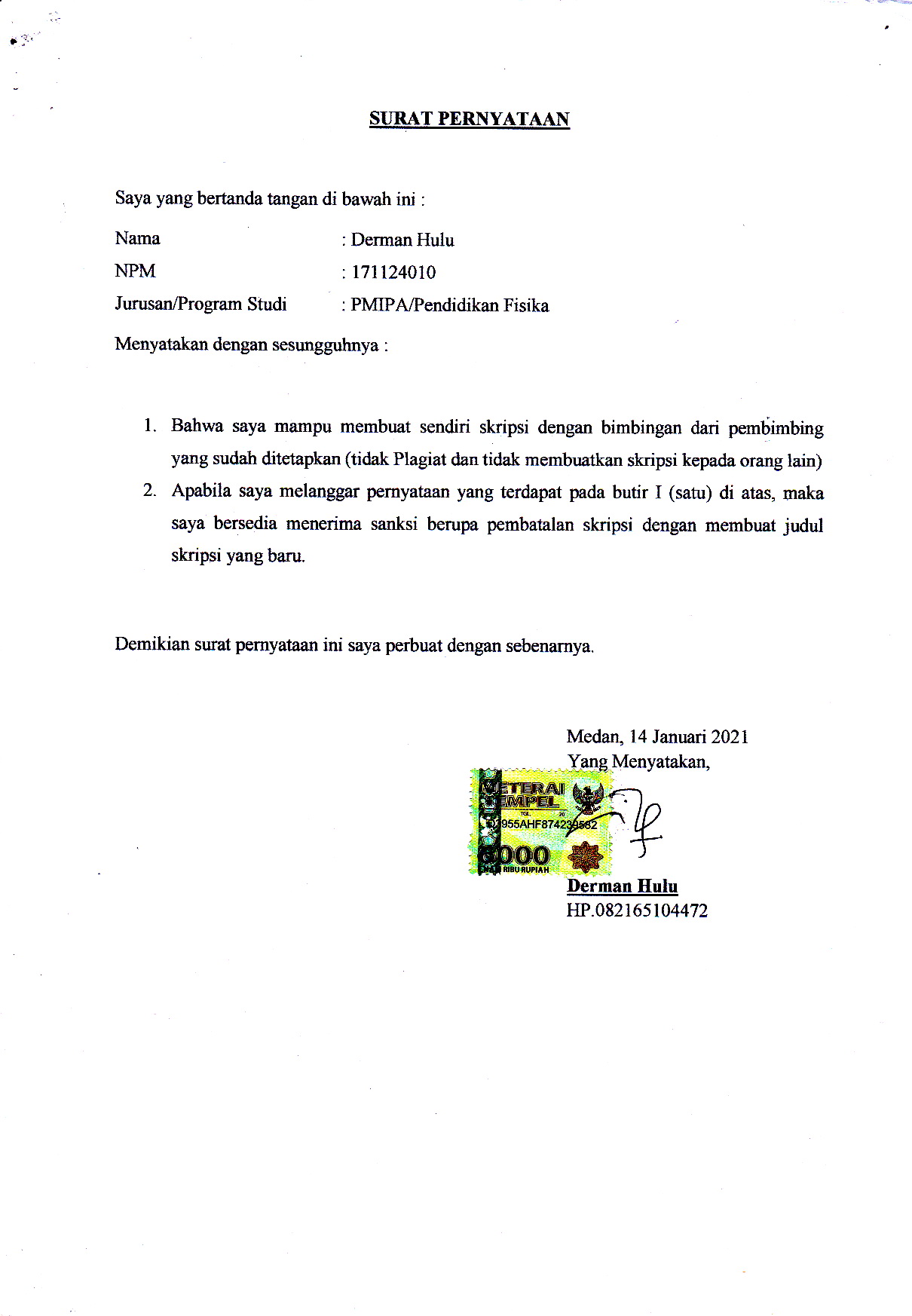
Dosen Pembimbing : Rofiqoh Hasan Harahap, S.Pd., M.Pd

**III. Orang Tua**

Nama Ayah : Alm. Bowoaro Hulu

Nama Ibu : Saritina Laia

Alamat : Hiliana’a Desa Siofabanua

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