



# INSTITUT SAINS DAN TEKNOLOGI NASIONAL

Jl. Moch. Kahfi II No.RT.13, RT.13/RW.9, Srengseng Sawah, Kec. Jagakarsa, Kota Jakarta Selatan, DKI Jakarta

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## JURNAL PERKULIAHAN MAGISTER TEKNIK ELEKTRO 2025 GANJIL

MATA KULIAH : Sistem Kendali Cerdas  
 NAMA DOSEN : Dr. Ir. Kuntjoro Pinardi, M.Sc.  
 Dr. Ir. DJOKO HARI NUGROHO, M.T.  
 KREDIT/SKS : 3 SKS  
 KELAS : MTE

| TATAP MUKA KE | HARI/TANGGAL            | MULAI | SELESAI | RUANG | STATUS  | RENCANA MATERI   | REALISASI MATERI  | KEHADIRAN MHS | PENGAJAR                         | TANDA TANGAN |
|---------------|-------------------------|-------|---------|-------|---------|--|---|---------------|----------------------------------|--------------|
| 1             | Minggu, 5 Oktober 2025  | 13:00 | 15:30   | R-F5  | Selesai | Pengantar Sistem Kendali Cerdas; perbedaan kendali klasik vs intelligent; kompleksitas PV–EV–HVAC ; ketidakpastian & non-linearitas. | Tersampaikan sesuai rencana; mahasiswa memahami konsep dasar & konteks sistem kampus. | (7 / 8)       | Dr. Ir. DJOKO HARI NUGROHO, M.T. |              |
| 2             | Minggu, 5 Oktober 2025  | 15:30 | 18:00   | R-F5  | Selesai | Arsitektur EMS: centralized/de centralized/dis tributed; konsep microgrid kampus.  | Mahasiswa menyusun diagram EMS sederhana berbasis microgrid.                          | (7 / 8)       | Dr. Ir. DJOKO HARI NUGROHO, M.T. |              |
| 3             | Minggu, 19 Oktober 2025 | 13:00 | 15:30   | R-F5  | Selesai | Dasar Fuzzy: membership function, rule IF–THEN, defuzzification .  | Mahasiswa merancang FIS sederhana (3 input–1 output).                                 | (7 / 8)       | Dr. Ir. DJOKO HARI NUGROHO, M.T. |              |
| 4             | Minggu, 19 Oktober 2025 | 15:30 | 18:00   | R-F5  | Selesai | Fuzzy untuk PV–ESS; desain rule base (9–27 rule).  | Mahasiswa menyusun rule base PV–ESS.  | (7 / 8)       | Dr. Ir. DJOKO HARI NUGROHO, M.T. |              |
| 5             | Minggu, 2 November 2025 | 13:00 | 15:30   | R-F5  | Selesai | Simulasi PV–ESS: energy balance & dinamika SoC.  | Simulasi dilakukan; analisis kelayakan sistem (feasible/tidak).                       | (7 / 8)       | Dr. Ir. DJOKO HARI NUGROHO, M.T. |              |
| 6             | Minggu, 2 November 2025 | 15:30 | 18:00   | R-F5  | Selesai | Evaluasi energi: LCOE, NPC, CO <sub>2</sub> ; analisis sensitivitas.   | Analisis ekonomi & skenario risiko diselesaikan.                                      | (7 / 8)       | Dr. Ir. DJOKO HARI NUGROHO, M.T. |              |







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## ISI PRESENSI MAHASISWA MAGISTER TEKNIK ELEKTRO 2025 GANJIL

Mata kuliah : EL2324 - Sistem Kendali Cerdas

Nama Kelas : MTE

| No                | NIM       | NAMA                        | TATAP MUKA       |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |                   |
|-------------------|-----------|-----------------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|
|                   |           |                             | 5<br>Okt<br>2025 | 5<br>Okt<br>2025 | 19<br>Okt<br>2025 | 19<br>Okt<br>2025 | 2<br>Nov<br>2025 | 2<br>Nov<br>2025 | 16<br>Nov<br>2025 | 16<br>Nov<br>2025 | 7<br>Des<br>2025 | 7<br>Des<br>2025 | 21<br>Des<br>2025 | 21<br>Des<br>2025 | 4<br>Jan<br>2026 | 4<br>Jan<br>2026 | 18<br>Jan<br>2026 | 18<br>Jan<br>2026 |
| Peserta Reguler   |           |                             |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |                   |
| 1                 | 24520001  | Adimas Surya Aprian         | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 |
| 2                 | 24520010  | Mochamad Saiful Anam        | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 |
| 3                 | 24520011  | Wahyu Fitrianto             | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 |
| 4                 | 24520018  | Imam Santoso Jati Putro     | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 |
| 5                 | 24520022  | Adi Aman                    | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 |
| 6                 | 24520043  | Nikolaus Dharmawan Dharsono | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 |
| 7                 | 251822006 | MUHAMMAD IRFAN              | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 | H                | H                | H                 | H                 |
| 8                 | 251822007 | MOHAMAD RIZKI PANCA SYAHRI  | A                | A                | A                 | A                 | A                | A                | A                 | A                 | A                | A                | A                 | A                 | A                | A                | A                 | A                 |
| Paraf Ketua Kelas |           |                             |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |                   |
| Paraf Dosen       |           |                             |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |                   |



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## LAPORAN NILAI PERKULIAHAN MAHASISWA Program Studi S2 Magister Teknik Elektro Periode 2025 Ganjil

Mata kuliah : Sistem Kendali Cerdas

Nama Kelas : MTE

Kelas / Kelompok :

Kode Mata kuliah : EL2324

SKS : 3

| No                    | NIM       | Nama Mahasiswa              | UTS<br>(50,00%) | UAS<br>(50,00%) | Nilai        | Grade    | Lulus | Sunting KRS? | Info |
|-----------------------|-----------|-----------------------------|-----------------|-----------------|--------------|----------|-------|--------------|------|
| 1                     | 24520001  | Adimas Surya Aprian         | 80.00           | 88.80           | 84.40        | A        | ✓     |              |      |
| 2                     | 24520010  | Mochamad Saiful Anam        | 78.00           | 88.80           | 83.40        | A        | ✓     |              |      |
| 3                     | 24520011  | Wahyu Fitrianto             | 80.00           | 88.80           | 84.40        | A        | ✓     |              |      |
| 4                     | 24520018  | Imam Santoso Jati Putro     | 78.00           | 88.80           | 83.40        | A        | ✓     |              |      |
| 5                     | 24520022  | Adi Aman                    | 80.00           | 88.80           | 84.40        | A        | ✓     |              |      |
| 6                     | 24520043  | Nikolaus Dharmawan Dharsono | 80.00           | 88.80           | 84.40        | A        | ✓     |              |      |
| 7                     | 251822006 | MUHAMMAD IRFAN              | 78.00           | 88.80           | 83.40        | A        | ✓     |              |      |
| 8                     | 251822007 | MOHAMAD RIZKI PANCA SYAHRI  | 80.00           | 88.80           | 84.40        | A        | ✓     |              |      |
| Rata-rata nilai kelas |           |                             | <b>79.25</b>    | <b>88.80</b>    | <b>84.03</b> | <b>A</b> |       |              |      |

Pengisian nilai untuk kelas ini ditutup pada **Senin, 9 Februari 2026** oleh **202503-012**

Tanggal Cetak : Selasa, 28 April 2026, 13:38:18

Paraf Dosen :

Dr. Ir. Kuntjoro Pinardi, M.Sc.

Dr. Ir. DJOKO HARI NUGROHO, M.T.