VW230504 Rekayasa Teknologi Cerdas

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| Icon  Description automatically generated | | **Institut Teknologi Sepuluh Nopember**  **Fakultas Vokasi**  **Departemen Teknik Elektro Otomasi**  **Program Studi Sarjana Terapan Teknologi Rekayasa Otomasi** | | | | | | | | | | | | **Kode Dokumen**  **2.3.2.3.6.4.1** | |
| **RENCANA PEMBELAJARAN SEMESTER** | | | | | | | | | | | | | | | |
| **MATA KULIAH (MK)** | | | | **KODE** | | **Rumpun MK** | | | **BOBOT (SKS/menit)** | | | **SEMESTER** | | **Tgl Penyusunan** | |
| **Rekayasa Teknologi Cerdas** | | | | VW230504 | |  | | | **T= 2** | | **P= 1** | 5 | | 20/02/2023 | |
| **100 menit** | | **170 menit** |
| **OTORISASI** | | | | **Pengembang RPS** | | | | **Koordinator RMK** | | | | **Ketua PRODI** | | | |
|  | | | |  | | | | Imam Arifin, S.T., M.T. | | | |
| **Capaian Pembelajaran (CP)** | | **CPL-PRODI yang dibebankan pada MK** | | | | | | | | | | |  | | |
| Kode CPL Deskripsi CPL | | | | | | | | | | |  | | |
| CPL-2 Individual and Team Work  CPL-4 Communication  CPL-9 Problem Analysis  CPL-10 Modern Resource/ Tool Usage | | | | | | | | | | |  | | |
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| **Capaian Pembelajaran Mata Kuliah (CPMK)** | | | | | |  | | | | | | | |
| CPMK-1 Mampu memahami perkembangan revolusi industri 4.0 dan penerapan kecerdasan buatan di dalamnya  CPMK-2 Mampu memahami konsep dan jenis-jenis kecerdasan buatan terpusat dan terdistribusi  CPMK-3 Mampu merancang dan menerapkan kecerdasan buatan dalam bidang otomasi industri  CPMK-4 Mampu mengetahui perkembangan ilmu kecerdasan buatan, khususnya dalam otomasi industri | | | | | | | | | | | | | |
|  | | **Matrik CPL – CPMK**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | CPMK | CPL-2 | CPL-4 | CPL-9 | CPL-10 | | CPMK-1 | V | V |  |  | | CPMK-2 |  |  | V | V | | CPMK-3 | V |  | V |  | | CPMK-4 |  | V |  | V | | | | | | | | | | | | | | |
| **Deskripsi Singkat MK** | |  | | | | | | | | | | | | | |
| **Pokok Bahasan/ Materi Pembelajaran** | | 1. Revolusi Industri 4.0  2. Konsep Kecerdasan Buatan  3. Kecerdasan Buatan Terpusat  4. Kecerdasan Buatan Terdistribusi  5. Aplikasi Kecerdasan Buatan dalam Engineering, khususnya otomasi industri  6. Aplikasi Kecerdasan Buatan dalam non-Engineering | | | | | | | | | | | | | |
| **Pustaka** | | **Utama :** | |  | | | | | | | | | | | |
| 1. Artificial Intelligence : A Modern Approach (Stuart Russel and Peter Norvig)  2. Introduction to Fuzzy Logic using MATLAB (S. N. Sivanandam, S. Sumathi and S. N. Deepa)  3. Neuro – Fuzzy and Soft Computing, A Computational Approach to Learning and Machine Learning ( J S Roger Jang dkk)  4. Neural Network : A Comprehensive Foundation (Simon Haykin) | | | | | | | | | | | | | |
| **Pendukung :** | |  | | | | | | | | | | | |
|  | | | | | | | | | | | | | |
| **Media Pembelajaran** | |  | | | | | | | | | | | | | |
| **Dosen Pengampu** | |  | | | | | | | | | | | | | |
| **Matakuliah syarat** | | Metode Numerik, Proyek 2: Bengkel Otomasi Industri | | | | | | | | | | | | | |
| **Mg Ke-** | **Kemampuan akhir tiap tahapan belajar**  **(Sub-CPMK)** | | **Penilaian** | | | | **Bentuk Pembelajaran,**  **Metode Pembelajaran,**  **Penugasan Mahasiswa,**  **[ Estimasi Waktu]** | | | | | **Materi Pembelajaran**  **[ Pustaka ]** | | | **Bobot Penilaian (%)** |
| **Indikator** | | **Kriteria & Bentuk** | | **Luring (*offline*)** | | | **Daring (*online*)** | |
| **(1)** | **(2)** | | **(3)** | | **(4)** | | **(5)** | | | **(6)** | | **(7)** | | | **(8)** |
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| 8 | Evaluasi Tengah Semester / Ujian Tengah Semester | |  | |  | |  | | |  | |  | | |  |
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| 16 | Evaluasi Akhir Semester / Ujian Akhir Semester | |  | |  | |  | | |  | |  | | |  |