Nama: Isep Lutpi Nur

NPM: 2113191079

Tugas: Minggu 5 - MULTI ATTRIBUTE UTILITY THEORY (MAUT)

**latihan tugas MAUT dari kasus yang ditugaskan mg kemarin**

**Judul:** Penentuan asisten laboratorium menggunakan metode MAUT

**Data:**

**Bobot Kriteria:**

|  |  |  |
| --- | --- | --- |
| Kode | Kriteria | Bobot |
| C1 | Nilai Ujian | 61 |
| C2 | IPK | 27.7 |
| C3 | Semester | 11.3 |
|  | Jumlah | 100 |

**Table data:**

|  |  |  |  |
| --- | --- | --- | --- |
| Mahsiswa | C1 | C2 | C3 |
| Rivan kurnia | 70 | 3.20 | 6 |
| Adistia Ramadhani | 80 | 3.30 | 6 |
| Akbar Maulana | 85 | 3.50 | 4 |
| Alam Nurzaman | 75 | 3.10 | 6 |
| Dara Atria | 85 | 3.70 | 6 |
| Deri Kurniawan | 80 | 3.30 | 4 |
| Farhan Aziz | 70 | 3.30 | 4 |
| Iman Faturahman | 75 | 3.20 | 6 |
| Irfan Ramdani | 80 | 3.40 | 4 |
| Isep Lutpi Nur | 90 | 3.70 | 4 |

|  |  |  |  |
| --- | --- | --- | --- |
| A- | 70 | 3.1 | 4 |
| A+ | 90 | 3.7 | 6 |

**Implementasi**:

1. Penentuan bobot kriteria masing masing

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Factor | C1 | C2 | C3 | ∑ w |
| Weight | 0.61 | 0.277 | 0.113 | 1 |

1. Membangun matriks ternormalisasi

|  |  |  |  |
| --- | --- | --- | --- |
| Mahsiswa | C1 | C2 | C3 |
| Rivan kurnia | 0 | 0.166667 | 1 |
| Adistia Ramadhani | 0.5 | 0.333333 | 1 |
| Akbar Maulana | 0.75 | 0.666667 | 0 |
| Alam Nurzaman | 0.25 | 0 | 1 |
| Dara Atria | 0.75 | 1 | 1 |
| Deri Kurniawan | 0.5 | 0.333333 | 0 |
| Farhan Aziz | 0 | 0.333333 | 0 |
| Iman Faturahman | 0.25 | 0.166667 | 1 |
| Irfan Ramdani | 0.5 | 0.5 | 0 |
| Isep Lutpi Nur | 1 | 1 | 0 |

1. Menghitung nilai prefensi

|  |  |  |
| --- | --- | --- |
| Mahsiswa | Prefensi | Rangking |
| Rivan kurnia | 0.159167 | 9 |
| Adistia Ramadhani | 0.510333 | 4 |
| Akbar Maulana | 0.642167 | 3 |
| Alam Nurzaman | 0.2655 | 8 |
| Dara Atria | 0.8475 | 2 |
| Deri Kurniawan | 0.397333 | 6 |
| Farhan Aziz | 0.092333 | 10 |
| Iman Faturahman | 0.311667 | 7 |
| Irfan Ramdani | 0.4435 | 5 |
| Isep Lutpi Nur | 0.887 | 1 |

1. Pengerjaan menggunakan excel

