

ABSTRAK

Program Merdeka Belajar Kampus Merdeka (MBKM) memberikan kesempatan mahasiswa untuk mengonversi kegiatan yang diikuti hingga 20 SKS ke dalam mata kuliah. Namun, proses konversi mata kuliah masih menghadapi kendala karena perbedaan antara silabus kegiatan MBKM dan Rencana Pembelajaran Semester (RPS) mata kuliah, serta proses manual yang memerlukan waktu cukup lama. Penelitian ini dilakukan dengan tujuan untuk mengembangkan sistem rekomendasi konversi mata kuliah yang mampu menghasilkan rekomendasi secara otomatis dengan menggunakan TF-IDF dan *Cosine Similarity*. Dataset terdiri dari 20 RPS mata kuliah serta 32 silabus magang mandiri. Berdasarkan hasil pengujian, sistem tanpa *preprocessing* menghasilkan rata-rata nilai *precision* sebesar 47,69%, rata-rata *recall* sebesar 72,19%, dan rata-rata *F1-score* sebesar 56,78%, sedangkan sistem dengan *preprocessing* menghasilkan rata-rata nilai *precision* sebesar 49,31%, rata-rata *recall* sebesar 73,31%, dan rata-rata *F1-score* sebesar 58,59%. Hal ini menunjukkan sistem dengan *preprocessing* lebih baik daripada sistem tanpa *preprocessing*. Selain itu, evaluasi *usability* dengan menerapkan metode *System Usability Scale* (SUS) terhadap 41 responden menghasilkan nilai rata-rata sebesar 73,05 yang termasuk dalam kategori baik dan dapat diterima.

Kata Kunci : MBKM, magang, konversi mata kuliah, TF-IDF, *Cosine Similarity*, *preprocessing* teks, *System Usability Scale* (SUS)

ABSTRACT

Merdeka Belajar Kampus Merdeka (MBKM) program provides students with the opportunity to convert up to 20 credits of activities into courses. However, the course conversion process still faces challenges due to differences between the MBKM activity syllabus and the course Rencana Pembelajaran Semester (RPS), as well as the time-consuming manual process. This research aimed to develop a course conversion recommendation system capable of generating automatic recommendations using TF-IDF and Cosine Similarity. The dataset consisted of 20 course RPSs and 32 independent internship syllabi. Based on test results, the system without preprocessing produced an average precision of 47.69%, an average recall of 72.19%, and an average F1-score of 56.78%. The system with preprocessing produced an average precision of 49.31%, an average recall of 73.31%, and an average F1-score of 58.59%. This indicates that the system with preprocessing is superior to the system without. Furthermore, a usability evaluation using the System Usability Scale (SUS) method on 41 respondents yielded an average score of 73.05, which is considered good and acceptable.

Keywords: MBKM, internship, course conversion, TF-IDF, Cosine Similarity, text preprocessing, System Usability Scale (SUS)