**FORM PENDAFTARAN JUDUL METOPEN**

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| **No HP** | **: 081255655012** | **Email** | **: rini1800018350@webmail.uad.ac.id** |
| **Bidang Minat Akademik \*** | | 1. **~~Rekayasa Perangkat Lunak dan Data~~** 2. **Sistem Cerdas** | |
| **Rencana Judul Penelitian**  **“Sistem untuk Memprediksi Mahasiswa Fakultas Teknologi Industri Lulus Tepat Waktu Dengan Metode K Means’’** | | | |

**Mata kuliah pilihan yang telah di ikuti :**

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| **MK Pilihan Relata** | **Nilai** | **Mk Pilihan SIstem Cerdas** | **Nilai** |
| Pengantar Multimedia |  | Penglihatan Komputer |  |
| Pemrograman Web Dinamis |  | Pembelajaran Mesin | A |
| Penambangan Data |  | Sistem Pendukung Keputusan | A- |
| Robotika Informatika |  | Grafika Lanjut |  |
| Rekayasa Web |  | Sistem Temu Balik Informasi |  |
| Kriptografi |  | Pengenalan Pola | A- |
| Forensik Digital |  | Pemrosesan Bahasa Alami | B+ |
| Pemrograman Paralel |  | Pengembangan Game |  |
| Penjaminan Kualitas Perangkat Lunak |  |  |  |

**Calon Dosen Pembimbing Mata Kuliah Metopen**

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| **Pilihan** | **Nama Dosen** | **Tanda tangan Persetujuan \*\*** |
| **Ke-1** | **Sri Winiarti, S.T., M.Cs.** |  |
| **Ke-2** |  |  |

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| **Meyetujui Dosen Pembimbing Akademik**  …………………………………………………………………………… | **Yogyakarta, ……………………………………………20**  **Mahasiswa**  ……………………………………………………………………………. |

**Catatan:**

**\* Pilih/Coret Salah Satu**

**\*\* Jika belum BERTEMU boleh dikosongkan & akan diputuskan oleh rapat dosen pembimbing metopen**

**Kembalikan form ini ke loker koordinator skripsi sebelum masa perkuliahan diselenggarakan**

**FORM TELAAH JURNAL \***

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| **Aspek** | **Pustaka 1** | **Pustaka 2** | **Pustaka 3** | **Pustaka 4** | **Pustaka 5** | **Penelitian Anda** |
| **Nama penulis** | Chonghui Guo, Mucan Liu, Menglin Lu | Changsheng Zhua, Christian Uwa Idemudiaa , Wenfang Feng | N. Nidheesh, K.A. Abdul Nazeer, P.M. Ameer |  |  |  |
| **Nama Jurnal** | A Dynamic Ensemble Learning Algorithm based on K-means for ICU mortality prediction | Improved logistic regression model for diabetes prediction by integrating PCA and K-means techniques | An Enhanced Deterministic K-Means Clustering  Algorithm for Cancer Subtype Prediction from Gene  Expression Data |  |  |  |
| **Volume, Nomor** | Volume 103 | Volume 17 | Volume 91 |  |  |  |
| **Bulan, Tahun Terbit** | May 2021 | April 2019 | December 2017 |  |  |  |
| **Penerbit** | Applied Soft Computing | Informatics in Medicine | Computers in Biology and Medicine |  |  |  |
| **Masalah Penelitian** | the widely applied traditional scoring systems, which predict the mortality risk with some scores reflecting the severity of disease and physiological states of patients in ICU, have shown insufficient predictive performance when faced with large volume of data. Although taking advantage of large volume of data, single machine learning model and ensemble learning methods show an inadequate ability to make personalized predictions for each new patient | Diabetes causes a large number of deaths each year and a large number of people living with the disease do not realize their health condition early enough | K-Means clustering algorithm  limits their applicability in areas such as cancer subtype prediction using gene  expression data. It is hard to sensibly compare the results of such algorithms  with those of other algorithms. |  |  |  |
| **Tujuan Penelitian** | For intensive care unit (ICU) mortality prediction | to determine ways  of improving the k-means clustering and logistic regression accuracy result. | cancer subtype prediction using gene |  |  |  |
| **Metode/teori yang digunakan** | A Dynamic Ensemble Learning Algorithm based on K-means | PCA and K-means techniques | K-Means Clustering |  |  |  |
| **Hasil Penelitian** | methods taking each base classifier’s prediction results into consideration outperform those adopt single classifier’s decision, in which the DELAK has the most outstanding performance. DELAK is also competitive with scoring systems, classical ensemble learning methods and dynamic ensemble selection methods in ICU patient mortality prediction tasks | results show that PCA  enhanced the k-means clustering algorithm and logistic regression classifier accuracy versus the result of other  published studies, with a k-means output of 25 more correctly classified data, and a logistic regression accuracy  of 1.98% higher. As such, the model is shown to be useful for automatically predicting diabetes using patient  electronic health records data. | K-Means has been shown to be superior to a set of other standard single clustering algorithms in the task of cancer subtype prediction, in the literature |  |  |  |

**\* Form ini dapat dibuat ulang sendiri sesuai dengan kebutuhan**