

ABSTRACT**PREDICTION OF GRADUATION STUDENTS WITH K-MEANS CLUSTERING ALGORITHM
(CASE STUDY OF INFORMATICS ENGINEERING PROGRAM IIB DARMAJAYA)**

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In the academic environment of higher education, especially in the Informatics Engineering study program, there are still problems regarding students who are unable to complete their studies. This research aims to predict the graduation of study program Informatics Engineering students by taking student data from GPA, year of entry, credits, points college graduation, and parental income. Scrum method with product backlog, sprint backlog, and increment stages. The program deep analysis used the k-means clustering algorithm. Where this algorithm is used for predicting the graduation of students from the Informatics Engineering study program. K-means algorithm clustering has several stages, namely: determining K as the number of clusters, Assign a random value to the initial cluster center and calculate the distance of each input data with the Euclidian formula, classifying each data based on proximity to the centroid (smallest distance), and updating the centroid value obtained from the cluster average. The result is a website software on a website for predicting student graduation Informatics techniques that can make it easier and faster for the Informatics Engineering study program to search Information on student graduation.

Keywords: Graduation; Clustering; K-means algorithm

