# *ABTRACT*

The process of scheduling courses is a process to implement an event that contains the components of courses, classes, and lecturer at the time slot that contains the components of time and space. Schedule of courses is very important for the smooth process of teaching and learning at the University Computer Engineering Department of Computer Indonesia.Dalam build alternative solutions, the genetic algorithm will consider aspects of faculty time for teaching. There should be a schedule of lectures berisian with class schedules before and the armed forces afterwards. Genetic algorithm solution is calculated based on the evenness of the distribution of teaching each lecturer.

One algorithm that appears to solve this problem is genetic algorithms, In this will be an intensive program of genetic algorithm to create a course scheduler. The system is designed using a genetic algorithm representation of chromosomes, inisialisi population, reproduction and selection, crossover, mutation and fitness evaluation.

Application of genetic algorithm was tested with visual basic 6.0 program, and performed in 100 generations, where each generation has a value that varies depending on the input input. Population size 100 and 50, the probability of crossover 75 and the probability of mutations 3, 4, and 5. results obtained at the end of the course scheduling solutions at a price of 97.222 fitness.



Key words: genetic algorithms, population, chromosome, fitness, crossover, and mutation.