

ABSTRAK

Masalah penjadwalan perawat dan ruang perawatan di rumah sakit biasanya diselesaikan secara manual. Namun masalah tersebut mempunyai banyak tujuan dan banyak kendala sehingga sulit diselesaikan secara manual. Akibatnya, penjadwalan perawat dan ruang perawatan menjadi kurang efektif. Oleh karena itu, dibutuhkan suatu metode yang mampu menyelesaikan masalah penjadwalan perawat dan ruang perawatan di rumah sakit dengan efektif. Pada tugas akhir ini, masalah penjadwalan perawat dan penggunaan ruang perawatan diselesaikan dengan metode program tujuan ganda, yang merupakan pengembangan dari pemrograman linear. Fungsi tujuan pada masalah penjadwalan ini berupa penyimpangan dari tujuan rumah sakit. Sedangkan kendalanya merupakan kebijakan rumah sakit yang harus dipenuhi. Variabel keputusan dalam masalah penjadwalan perawat adalah perawat yang bertugas pada *shift* tertentu, sedangkan variabel keputusan dalam masalah penggunaan ruang perawatan adalah ruang yang digunakan pada waktu tertentu. Dalam tugas akhir ini, masalah penjadwalan perawat dan penggunaan ruang perawatan diselesaikan dengan bantuan program Maple18. Hasil yang diperoleh adalah pola penjadwalan perawat dan penggunaan ruang perawatan.

Kata kunci: *Penjadwalan perawat, Ruang perawatan, Program tujuan ganda*

ABSTRACT

The scheduling of nurses and operation rooms in hospital is usually solved manually. However, this problem has many goals and many constraints. Therefore it is difficult to solve it manually. As a result, the scheduling of nurses and operation rooms becomes less effective. Therefore, we need a method that is able to solve the problem of scheduling nurses and operation rooms in hospitals effectively. The scheduling problem has many goals. Therefore, the problem of nurse scheduling and the usage of the operation room were solved by the goal programming method. The way to solve the problem of nurse scheduling and usage of operation rooms with a goal programming is to change the nurse scheduling problem and usage of operation rooms scheduling problem into the form of a goal programming problem first, then solve it. The objective function in this scheduling problem in hospital is deviation from hospital goals. The constraints of scheduling problem in hospital is hospital policy that must be fulfilled. The decision variable in the nurse scheduling problem is the nurse who is assigned at a certain shift, while the decision variable in the usage of operation rooms problem is the room which is used at a certain time. In this final project, the problem of nurse scheduling and the usage of the operation room is solved by using Maple18. The goal is to simplify the process of solving the problem of scheduling nurses and usage of the operation room. The results obtained are the pattern of nurse scheduling and the usage of the operation room.

Keywords: *Scheduling, Nurse, Operation Room, Goal Programming, Maple18.*