

## Schedule a New Production Plan by Heuristic Methods

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**Abstract :** In this project, a capacity analysis study is done at TAT A. Ş. Maret Plant. Production capacity of products which generate 80% of sales amount are determined. Obtained data entered the LEKIN Scheduling Program and we get production schedules by using heuristic methods. Besides heuristic methods, as mathematical model, disjunctive programming formulation is adapted to flexible job shop problems by adding a new constraint to find optimal schedule solution.

**Keywords :** scheduling, flexible job shop problem, shifting bottleneck heuristic, mathematical modelling

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