

# **SOLVING ECONOMIC LOAD DISPATCH PROBLEM USING GENETIC ALGORITHM METHOD**

Thesis is presented in partial fulfilment for the award of the  
Bachelor of Electrical Engineering (Hons.)  
UNIVERSITI TEKNOLOGI MARA



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## ACKNOWLEDGEMENT

*“In the name of Allah, Most Gracious, Most Merciful”*

Praise to Allah, the one and only, for giving me strength to complete this final year project. The project delivered in this paper could not have been accomplished without the help of many individuals.

First and foremost I would like to take this opportunity to extend my greatest gratitude to my family for their understanding and commitment during my crucial time researching and finishing this final year project.

This special gratitude also goes to my project supervisor, Asse. Prof. Bibi Norasiqin Sheikh Rahimullah for all her guidance, valuable suggestions, comments, advices, supports and concern throughout the completion of this project.

My sincere appreciation also goes to all the lecturers who throughout the years of my study fill me with all the knowledge. A sincere appreciation are dedicate to all of you who patiently guide me throughout the journey.

Special thank to Afzan Kamarulzaman, Siti Aminah and Siti Hassanah Hassan for her valuable ideas and finding references upon demand. Thank you for your moral support throughout my courseship.

Finally, I am thankful to all people who names are not been mentioned for their encouragement, criticism, and support for this project. I wouldn't have done it without all of you.

## **ABSTRACT**

This thesis studies an approach to solve economic load dispatch problem on operation of power systems. The determination of power system operation of data is based on the generation output and coefficients involved. In this study, Genetic Algorithm method is used to overcome this problem. Data taken from the test system is analysed as the power system data generation. The objective of this paper is to find the generation scheduling such that the total operating cost can be minimized.

Genetic Algorithm Toolbox functions in MATLAB program are utilized in solving the proposed method. The proposed method is tested on a system consisting power generating units. The results show that the proposed method provides the minimum cost was compared with recorded data of traditional method using table comparison. Thus, the comparison showed the minimum total operating cost of data generation was achieved.

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