

**FINAL PROJECT REPORT**

**TOPIC**

**THE EFFECTS OF SPRING TO THE SUSPENSION SYSTEM**

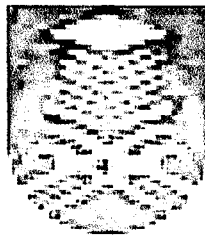
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**OCTOBER 2002**

## **ACKNOWLEDGEMENT**

Praise and grace to ALLAH S.W.T. Creator of the universe for under His command, we manage to complete our final project. This final project (EM 112) is prerequisite in attaining a Diploma in Mechanical Engineering (Automotive) from the Mechanical Engineering Faculty, University Technology Mara.

In completing this project, we are totally indebted to our respected lecturers, technician of Faculty of Mechanical Engineering and our fellow friends. Their contributions were vital and very helpful.

We are grateful to Prof. Madya En. Zamri Abdul Rahman, our project advisor for demonstrating faith and patience in our capability to carry out this project. We managed to go through all the difficulties under his guidance, advice, information and knowledge and we will not able to complete the project without his supervision.

Special thanks also go to Dr. Solomon Darius, Prof. Madya En. Ahmad Kamil and En. Abu (Strength Lab Assistance) for helping us in the progress of this project. Their expertise and invaluable assistance helped us to finish our project.

## **ABSTRACT**

The title of our final project is “ The effects of spring to the suspension system “. The purpose of this study shall be concerning with the stiffness of coil spring when in original length or after modified.

Generally, in this project we fabricated the test set-up for testing coil spring of vehicle and loads, which will be applied, to it.

In future, students working in this set-up will be able to find the performance of coil spring by applying different loads with relationship to the spring displacement. By this research, we can know the ability of coil spring by following the duration of uses and how much capability of load that can be loaded.

By doing this research, we gained a lot of experience on spring stiffness due to load applied when the spring is in standard or modified length.

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