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**A FINAL YEAR PROJECT REPORT
DIPLOMA IN MECHANICAL ENGINEERING
(MANUFACTURING)**

**THE STUDY OF STEEL PRODUCTION
TECHNOLOGY IN MALAYSIA**

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Your Sincerely

Muhammad Ezanee Bin Md Zain

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1.0 INTRODUCTION

Steel industry is important in contributing to the country's development and economic growth. In new of this local steel makers are searching for new opportunities for further expansion to meet future demand and competition. As a result, there are many steel related rose in the market names like Amsteel, Perwaja, Antarasteel southern steel, Yah Yung Steel, Sin Kian Boon Steel and many other in different processes making of steel either from scrap or Iron Coke. The main process is similar in natural between one another but other sub processes are different due to different technologies that have been developed.

Malaysia has plentiful oil and gas reserves, we can make use of them in the production of direct reduced Iron (DRI). Steel has been widely used in the domestic construction and engineering applications such as rein forced cage for concrete pile and pipes, cold draw bar chain link fencing, nail, screw, bolt, nuts, galvanized wire, welding electrode and many other use. It is essential to understand the commercial processes like making of billet, rolling processes for both steel bar and wire rod production.

The new concept for plants and equipment to produce hot rolled flat products for continuously last thin slabs are being introduced and discussed worldwide, all of these concepts claiming to be highly economical even for small production units with annual output increasement. This feature make them an interesting alternative to conventional hot strip production in hot strip mills using latest equipment. A requirement tailored steel making capacity with direct reduction and scrap change allows to implement autarkic production. Consequently, these plant concepts are interesting not only to developing and threshold countries, but also to special market area in highly industrialized nation.

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Lastly, the high implemented technologies in steel making industries affected the capacity of steel production in Malaysia.