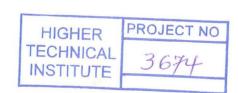# STRUCTURAL STEEL DESIGN

# OF A STEEL ARCHED BRIDGE

BY

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Project Report

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# CHAPTER 1 – INTRODUCTION

## 1.1 Aim and Objective

The Aim of the Project was to design A Steel Arch Bridge whose road is passing below the arc. It's obvious that the use of steel in design and engineering makes our lives easier in many ways. Buildings are now built more efficient, easier, faster, cheaper and more aesthetic which I think this could be one of the major factors which affect the design of any structure along with the cost and availability of resources.

As time passes and engineering technology becomes more intelligent. With the use of computers everything becomes easier and less complicated or as like someone said "You just make mistakes faster".

STAAD.pro is a Static Analysis And Design Engineering Software which consists on the Specification Codes of each country specifications which the designer desires to design.

The project implies the use of STAAD.pro for the design and the analysis of the task which was assigned eight month ago. Since then I was very excited about the idea of designing a bridge, but I wasn't very sure if I could manage to complete it the correct way.

Now that I completed my task I think and I know the problems that I faced but with the efficient usage of the software and the intellectual effort, all of the problems that arise were encountered the best possible way.

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