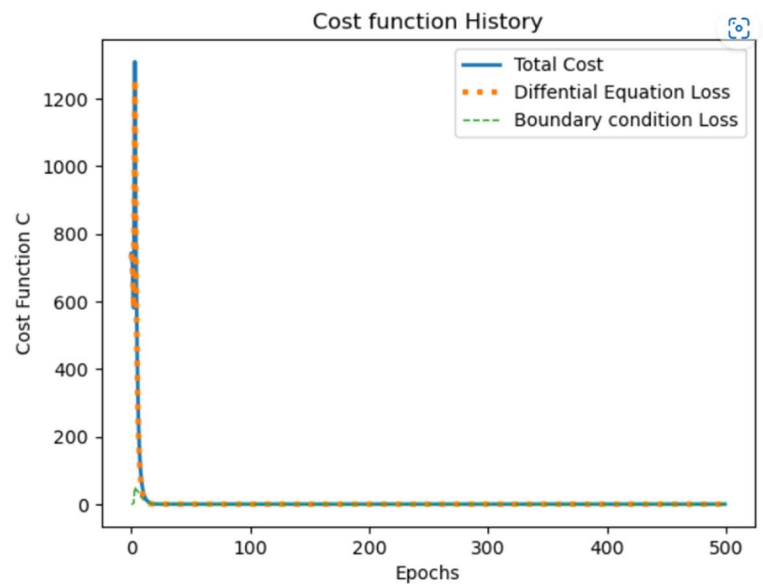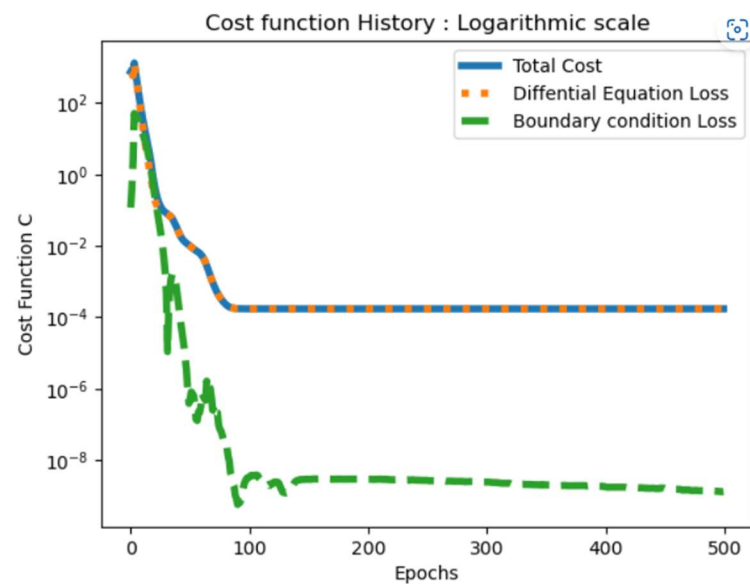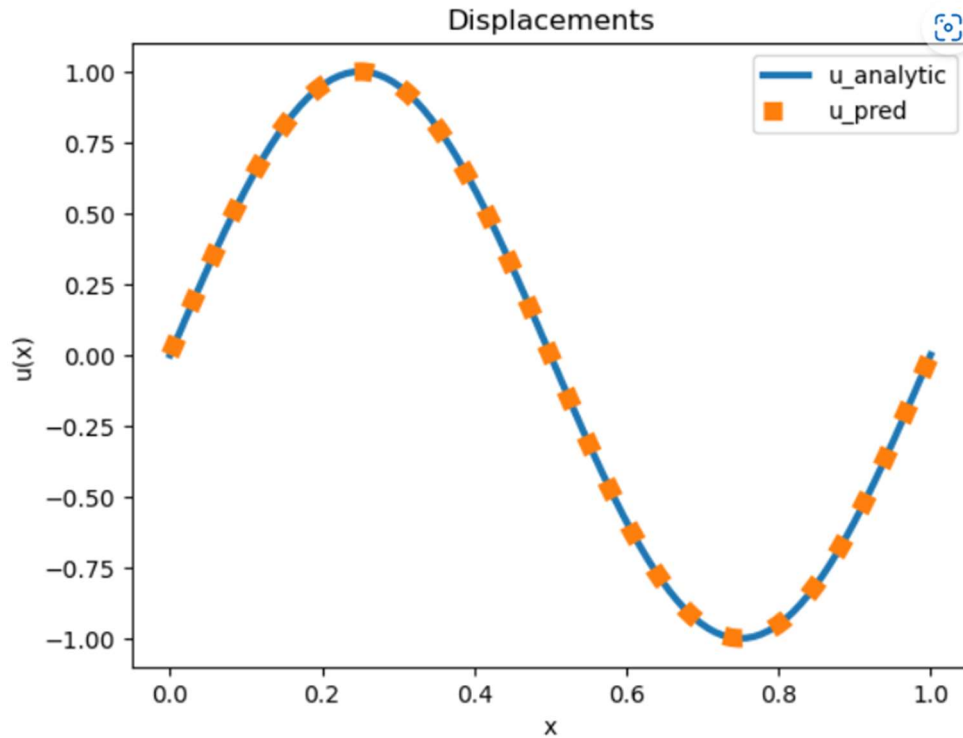# Plots – Assignment 6 {APL745}

Mohit Garg
2020AM10657

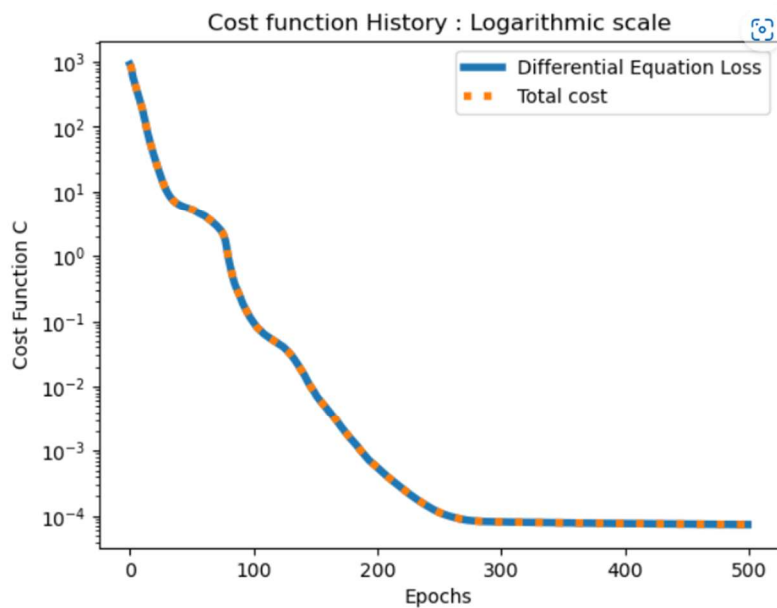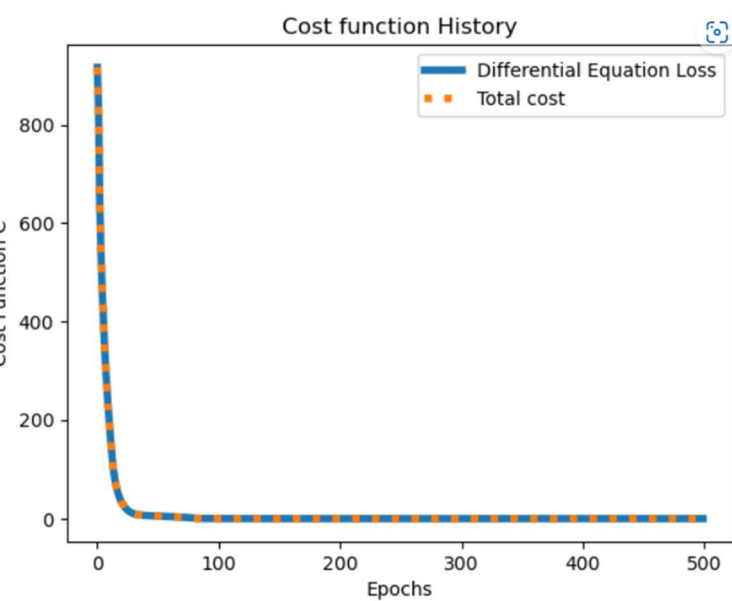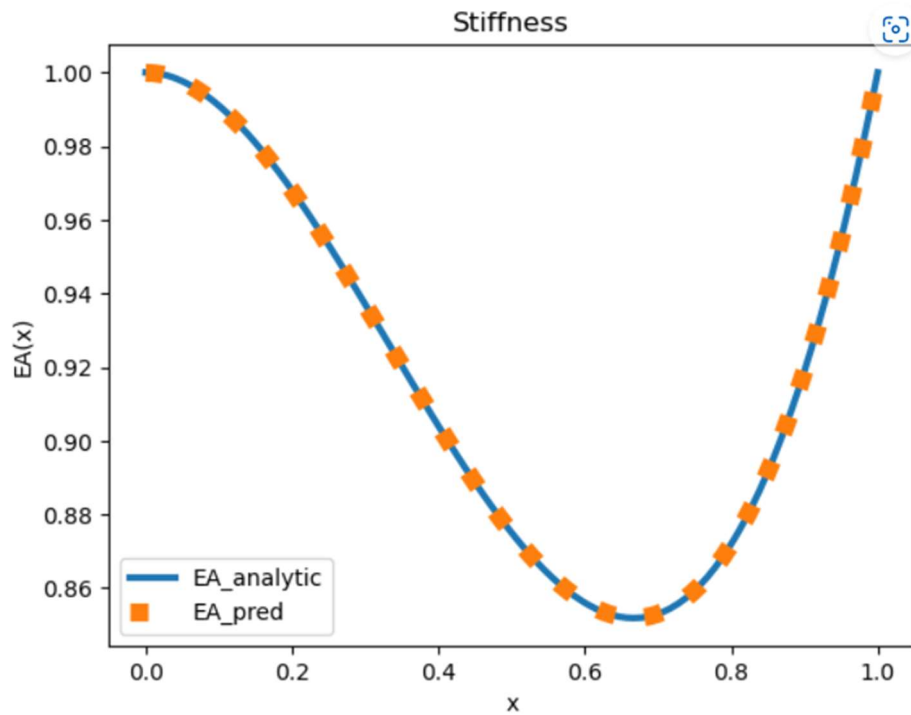## Part 1 – Forward Problem

Linear elastic static bar example.
First displacements u(x) calculated by physics informed neural network is compared with analytical solution.
Second Training history is illustrated showing cost function for each epoch on logarithmic as well as normal scale

Part 2 – Inverse Problem

Stiffness

Cost function History

Cost function History : Logarithmic scale

Linear elastic static bar example.
First Cross-sectional property EA(x) calculated by physics informed neural network is compared with analytical solution.
Second Training history is illustrated showing cost function for each epoch on logarithmic as well as normal scale