**Lab 02**

**Introduction to lathe Machine perform straight turning and calculate machining time.**

**Plots**

**RPM and Cutting Speed**

**MATLAB Code**

% Machine Tools and Machining/ Machinig Processes Lab

% Student Name: "Enter Your Student Name"

% Student ID: "Enter Your Student ID"

% Lab 01: Introduction to lathe Machine perform straight turning and calculate machining time.

% Graphs

% Draw a Graph between the RPM and Cutting Speed

% Given Data

RPM = [660, 660, 660, 660, 660]; %(x1, x2, x3)

Cutting\_Speed = [46104.1, 50073.84, 52873, 54953.62, 59833.94]; %(y1, y2,y3)

% Plotting

plot(RPM, Cutting\_Speed, 'Linewidth', 2);

% Cutomization

xlabel ('RPM (rev/mint)');

ylabel ('Cutting Speed (mm/mint)');

title ('RPM vs Cutting Speed Student Name and Student ID')

legend ('RPM vs Cutting Speed');

grid on;

**Graph**



**Comments**

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