

Candidate's DECLARATION

I hereby declare that this thesis report entitled "Numerical Analysis of Tracking Performance in Machine Tools for Disturbance Forces Compensation using PID and NPID Controller" is an authentic report of study carried out as a requirement for the award of degree B.Sc. (Mechanical Engineering) at Islamic University of Technology, Gazipur, Dhaka, under the supervision of Dr. Madihah Binti Haji Maharof, Assistant Professor, MPE, IUT in the year 2024.

The matter embodied in this thesis has not been submitted in part or full to any other institute for award of any degree.



Abdulsalam Mansoor 19001131



Mogtaba Elser 180011248



Abdulfatah Khmees 190011129

Recommendation of the thesis supervisors

This thesis titled "Numerical Analysis of Tracking Performance in Machine Tools for Disturbance Forces Compensation Using PID And NPID Controller" submitted by Abdulsalam Mansoor (190011131), Abdulfatah Khmees (190011129), and Mogtaba Elser (180011248) has been accepted as satisfactory in partial fulfillment of the requirement for the Degree of Bachelor of Science in Mechanical Engineering on 8th July, 2024.

Supervisor



Dr. Madihah Binti Haji Maharof

Assistant Professor

Head of the Department



Dr. Md Hamidur Rahman

Professor

Department of Mechanical and Production Engineering (MPE) Islamic University of
Technology (IUT)