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It is required to write a research in **ONLY ONE** of the following topics:

Topic (1) : Effect of Cutting Parameters on CNC Milling and Turning Operations

It is required to study the effect of the cutting parameters (Feed, Speed, and depth of cut) selection on the surface roughness (Ra) and the machining time (Tm) for both CNC milling and CNC turning operations. Support your research with two case studies (Milling and Turning)

OR

Topic (2) : New trends in CNC Milling and Turning Machines

It is required to write a research about the new trends in CNC Milling and Turning Machines related to number of axis (4, 5, and 6 axes). Support your research with two case studies showing the new programming methods and application parts.

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Prof. Azza Barakat

Asst. Prof. Mohamed Hamoud

Asst. Prof. Ahmed Sobhy