

## **ABSTRACT**

*CNC (Computer Numerically Controlled) machine tools are equipped with mechanical systems and computer-based control. Researcher saw that the material learn about CNC programming is not learned in campus IT Telkom. And when we see the need of experts in this field is very large, because there are not many people who can master this CNC programming. When you try to take special classes (courses), still not much to provide for these materials. In addition to have a course, the cost is quite expensive.*

*In this research, instructional design tool of the CNC programming using E-learning as a method of learning. Where will this teaching tool can be accessed through the website. The author uses the method of e-learning because the authors saw that the teaching methods of IT Telkom campus will be taken toward the use of E-learning, it is shown in the presence of E-learning web-owned IT Telkom (intelligent). The Design of e-learning content use Flash format as the medium, because the Flash format has several advantages that the authors felt this fit in the design.*

*This research will produce a learning web-based E-learning about CNC programming material. Where not only the basic material presented programming on e-learning, but also added to simulate how to use lathes FANUC OTD to make the process of making a work piece. The result is expected to be used as reference Telkom IT students in learning CNC programming and provide expertise on new areas that previously had never been taught on campus.*

**Keywords:** *E-Learning, CNC Programming, Teaching Tools*