

# FSG TRAILBLAZING IN 2020





# COMPUTER-AIDED MANUFACTURING TRAINING USING TUKATECH SOFTWARE

A Computer-Aided Manufacturing training using Tukatech Software was held at Apparel Lab in FSG. The training was organized by the Department of Textile Science & Fashion Technology on September 3rd until 9th 2020. The objectives of the training were to give exposure to the important features of Tukatech software and to demonstrate how to use its application in garment manufacturing.

**CAM Implementation in the Apparel Industry** Computer-Aided Manufacturing is an automation system that designs, regulates, and determines control of production operations. In the Apparel industry, CAM is associated with several machines and devices that help in the effectiveness of garment production. Several processes that can be integrated with computers and automation processes production in CAM include:

**PLOTTING** The new plotter system has replaced the traditional paper-heavy and difficult method controlled. The plotter system used now is connected to a computer and the internet, that is enabling better control and maintenance systems that minimise downtime.

**SPREADING** The current spreading system allows fabric arrangement with nesting automation to speed up processing times because it uses a smart and effective system, and is also connected to the machine automatic cutters thereby optimizing production effectiveness, saving time and costs.

**CUTTING** The cutting system is also connected to an integrated computer making it easier to cut with a high degree of accuracy.

**SEWING** The sewing machine that is integrated with the computer system also speeds up the sewing process, as well as several automation functions that vary according to their types and needs.

With increasingly dynamic demands in the apparel industry, advanced technology is also needed. CAM implementation is necessary to help optimize the process production with a smart and integrated computer system, then it can help reduce fabric waste during the production process because with CAM integration, accuracy and automation during pattern making, grading, plotting and cutting can be maintained. The integration of CAM also helps in minimizing errors that occur when processing production is done manually. Ultimately, production effectiveness can be achieved in terms of time, cost, and production results that can meet global standards.



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