The role of the applied practice of cybersecurity in developing the skills and accuracy of the practical application of information security among university students

The aim of the research was to determine the role of the applied practice of cyber security in developing skills and the accuracy of the practical application of information security for students at the Computer Department at Adham University College affiliated to Um Al-Qura University.And detect the statistically significant differences between the degrees of the experimental group and the control group in the pre and post measurement of the role of cyber security practice in developing skills and the accuracy of practical application of information security. To achieve the research objectives, the researchers used semi-experimental approach. The research group consisted of 80 students from fthe Computer Department at Adham University College affiliated to Um Al-Qura University. The research tools were the application of a note card and a tribal and post-standard note card for the role of applied cybersecurity practice on skills development and the accuracy of the practical application of information security among university students.

The research has reached a number of conclusions, the most prominent of which were:

- There is a positive statistically significant relationship between the applied practice of cyber security and the development of information security skills (research skill, security analysis skill, systems handling skill, working skill and responsiveness, programming skill and writing codes, communication skill) of university students.

- There is also a positive statistically significant relationship between the practice of cyber security and the development of the accuracy of practical application (the realistic application of scientific knowledge, scientific

experiments, time management, emotional response management, and self-assessment) of university students. The research also recommended a number of recommendations, including:

‑ Partnerships between Saudi universities to implement forums on cyber security and information security.

‑The practice of cyber security and information security in some courses has to be incorporated into universities.