ABSTRACT

The role of information technology in the current era has a big influence on the educational aspect. Budi Utomo Perak Vocational High School (SMK) as an educational institution under the auspices of the Budi Utomo Perak Foundation has implemented this by developing a GIES (Gading Integrated Education System) website, an electronic-based educational administration system that helps school management and administration making it easier for teachers and administrators. school business. On the GIES website there is important data on school students, this data is crucial, in its implementation there are possible threats and risks such as server down, lost data and server security which can disrupt performance activities in it so that the educational process does not run well. Therefore, the need for continuity of improvement or continuous improvement is very important to carry out. As a form of effort to minimize this, risk analysis and risk assessment are needed, the aim of this research is to mitigate the risks that have been identified using the Octave Allegro method. This research focuses on Information System Security Risk Analysis Using the Octave Allegro Method on the GIES Website of Budi Utomo Perak Vocational School to help provide an assessment of information assets. The security aspects of this information system include aspects of confidentiality, integrity and availability. Based on the results of information system security risk analysis obtained through observation, interviews, and a qualitative case study approach as primary data. This data is a key element that will help in identifying, evaluating and overcoming potential risks and with permission from SMK Budi Utomo Perak to collect data as a basis for research. The results of this research will produce a risk mitigation mapping document resulting from an evaluation of information system security risk analysis which can be used as a guideline in managing information system security on the GIES SMK Budi Utomo Perak Website.

Keywords: *Octave Allegro, Information Systems Security, Budi Utomo Vocational School Perak, GIES Website*.