

## DAFTAR ISI

|   |           |
|---|-----------|
| HALAMAN PERNYATAAN KEASLIAN.....  | i         |
| HALAMAN PENGESAHAN TUGAS AKHIR .....  | ii        |
| HALAMAN PERSETUJUAN PUBLIKASI KARYA ILMIAH UNTUK<br>KEPENTINGAN AKADEMIS..... | iii       |
| KATA PENGANTAR.....   | iv        |
| ABSTRAK .....   | vi        |
| ABSTRACT.....   | vii       |
| DAFTAR ISI.....   | viii      |
| DAFTAR GAMBAR.....  | xi        |
| <b>BAB 1 PENDAHULUAN .....</b>  | <b>1</b>  |
| <b>1.1 Latar Belakang .....</b>   | <b>1</b>  |
| <b>1.2 Rumusan Masalah .....</b>  | <b>4</b>  |
| <b>1.3 Ruang Lingkup Permasalahan.....</b>                                    | <b>5</b>  |
| <b>1.4 Tujuan Penelitian .....</b>  | <b>5</b>  |
| <b>1.5 Manfaat Penelitian .....</b>   | <b>5</b>  |
| <b>1.5.1 Manfaat Bagi Universitas Esa Unggul .....</b>                        | <b>5</b>  |
| <b>1.5.2 Manfaat Bagi Peneliti .....</b>                                      | <b>6</b>  |
| <b>1.6 Kerangka Berpikir .....</b>  | <b>6</b>  |
| <b>1.7 Sistematika Penulisan .....</b>  | <b>7</b>  |
| <b>BAB 2 LANDASAN TEORI .....</b>   | <b>9</b>  |
| <b>2.1 Tinjauan Pustaka (Penelitian Terdahulu) .....</b>                      | <b>9</b>  |
| <b>2.2 Dasar Teori .....</b>  | <b>13</b> |
| <b>2.2.1 Sistem Informasi Akademik (SIKAD) .....</b>                          | <b>13</b> |
| <b>2.2.2 Risiko.....</b>  | <b>14</b> |
| <b>2.2.2.1 Macam – macam Risiko .....</b>                                     | <b>16</b> |
| <b>2.2.2.2 Upaya Penanggulangan Risiko .....</b>                              | <b>17</b> |
| <b>2.2.3 NIST SP 800-30 .....</b>   | <b>17</b> |
| <b>2.2.4 Penilaian Risiko (<i>Risk Assessment</i>).....</b>                   | <b>20</b> |
| <b>2.2.4.1 Proses Penilaian Risiko .....</b>                                  | <b>21</b> |
| <b>2.2.5 Teknologi Informasi.....</b>   | <b>23</b> |
| <b>BAB 3 METODE PENELITIAN.....</b>   | <b>25</b> |

|  |  |           |
|--|--|-----------|
| 3.1  | Lokasi Penelitian .....  | 25        |
| 3.2  | Jenis dan Pendekatan Penelitian.....                                       | 25        |
| 3.3  | Teknik Pengumpulan Data.....   | 25        |
| 3.3.1  | Wawancara .....  | 25        |
| 3.3.2  | Kuesioner .....  | 25        |
| 3.3.3  | Observasi.....   | 26        |
| 3.3.4  | Studi Literatur.....   | 26        |
| 3.4  | Sumber Data .....  | 26        |
| 3.4.1  | Data Primer .....  | 26        |
| 3.4.2  | Data Sekunder .....  | 26        |
| 3.5  | Tahapan Penilaian Risiko ( <i>Risk Assessment</i> ) NIST SP 800 - 30 ..... | 26        |
| <b>BAB 4 HASIL DAN PEMBAHASAN.....</b>             |  | <b>29</b> |
| 4.1  | Karakterisasi Sistem .....   | 29        |
| 4.2  | Identifikasi Ancaman.....  | 31        |
| 4.3  | Identifikasi Kerentanan.....   | 34        |
| 4.4  | Analisa Kontrol .....  | 35        |
| 4.5  | Penentuan Kemungkinan .....  | 36        |
| 4.6  | Analisa Dampak .....   | 38        |
| 4.7  | Penentuan Risiko.....  | 39        |
| 4.8  | Rekomendasi kontrol.....   | 40        |
| 4.9  | Dokumentasi Hasil .....  | 41        |
| <b>BAB 5 KESIMPULAN DAN SARAN.....</b>             |  | <b>44</b> |
| 5.1  | Kesimpulan .....   | 44        |
| 5.2  | Saran .....  | 45        |
| <b>DAFTAR PUSTAKA.....</b>                         |  | <b>46</b> |
| <b>DAFTAR LAMPIRAN.....</b>                        |  | <b>49</b> |
| Lampiran 1. Riwayat Hidup .....                    |  | 49        |
| Lampiran 2. Wawancara.....                         |  | 50        |
| Lampiran 3. Kuesioner.....                         |  | 52        |
| Lampiran 4. Surat Permohonan Izin Penelitian ..... |  | 60        |
| Lampiran 5. Dokumentasi.....                       |  | 61        |

**DAFTAR TABEL**

|  |           |
|--|-----------|
| <b>Tabel 4. 1 Identifikasi Aset.....</b>       | <b>30</b> |
| <b>Tabel 4. 2 Identifikasi Ancaman.....</b>    | <b>33</b> |
| <b>Tabel 4. 3 Identifikasi Kerentanan.....</b> | <b>35</b> |
| <b>Tabel 4. 4 Analisa Kontrol .....</b>        | <b>36</b> |
| <b>Tabel 4. 5 Penentuan Kemungkinan .....</b>  | <b>37</b> |
| <b>Tabel 4. 6 Analisa Dampak .....</b>         | <b>38</b> |
| <b>Tabel 4. 7 Penentuan Risiko.....</b>        | <b>40</b> |
| <b>Tabel 4. 8 Rekomendasi Kontrol .....</b>    | <b>41</b> |
| <b>Tabel 4. 9 Dokumentasi Hasil .....</b>      | <b>43</b> |

DAFTAR GAMBAR

|  |           |
|--|-----------|
| <b>Figure 1.6 Kerangka Berpikir.....</b>                 | <b>7</b>  |
| <b>figure 2.2.4.1 Proses Penilaian Risiko .....</b>      | <b>22</b> |
| <b>figure 3.5 Risk Assessment NIST SP 800 – 30 .....</b> | <b>27</b> |