**Course Aim:** To provide students with the necessary skills to create desktop and web applications that connect to and work with databases.

<table>
<thead>
<tr>
<th>Short Title</th>
<th>Faculty</th>
<th>Polytechnic Level</th>
<th>Credits</th>
<th>Pre-requisites</th>
<th>Co-requisites</th>
<th>Anti-requisites</th>
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<tbody>
<tr>
<td>EDICT</td>
<td></td>
<td>15</td>
<td>30</td>
<td>IT7008 (ITB6008)</td>
<td>Nil</td>
<td>Nil</td>
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</table>

**Learning Outcomes:**

1. Design and implement desktop applications that access and manipulate a database
2. Design and implement web applications that access and manipulate a database
3. Use object oriented techniques to design and implement custom database entity classes
4. Manage a multi-tier application which uses custom entity classes to access and manipulate a database
5. Propose an appropriate technology for a particular problem

**Version 3**

**Effective From September 1, 2018**

<table>
<thead>
<tr>
<th>Indicative NQF Level</th>
<th>Student Contact hrs</th>
<th>Self-directed hrs</th>
<th>Other directed hrs</th>
<th>Total learning hrs</th>
</tr>
</thead>
<tbody>
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<td>8</td>
<td>60</td>
<td>60</td>
<td>30</td>
<td>150</td>
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</table>

**Total learning hrs:** 150

**Effective From:** September 1, 2018

**Indicative NQF Level:** 8

**Student Contact hrs:** 60

**Self-directed hrs:** 60

**Other directed hrs:** 30

**Total learning hrs:** 150

**NOF Sub-strand:**

- Practical
- Application of knowledge
- Practical
- Application of knowledge
- Practical
- Application of knowledge
- Generic, Problem Solving and Analytical Skills