# IT7001 Systems Analysis and Design

**Course Aim**  
To develop students’ abilities to analyse simple and complex information systems, model business and systems requirements, and document logical and physical design solutions by using appropriate methods, techniques, tools and industry standards.

<table>
<thead>
<tr>
<th>Short Title</th>
<th>SAD</th>
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<tbody>
<tr>
<td>Faculty</td>
<td>EDICT</td>
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<tr>
<td>Credits</td>
<td>15</td>
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<tr>
<td>Pre-requisites</td>
<td>IT6005 (IT5005)</td>
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<td>Co-requisites</td>
<td>None</td>
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<td>Anti-requisites</td>
<td>None</td>
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**Learning Outcomes**

1. Perform feasibility analysis to recommend the optimal solution for a new system.

2. Produce a set of documents and models for a new system by applying fact finding, problem solving and object-oriented analysis modelling techniques and by using appropriate software tools.

3. Demonstrate understanding of the concepts and basic principles of system development to meet client requirements.

4. Produce a physical design specification for a new system by applying object-oriented design modelling techniques and using appropriate software tools.

5. Critically analyze the work of self and teams in a collaborative environment.

**Version 6**  
**Effective From** February 2018  
**Level** 7  
Student Contact hrs 90  
Self-directed hrs 60  
Other directed hrs 0  
Total learning hrs 150

**NQF Sub-strand**

- Practical Application of knowledge
- Practical Application of knowledge
- Theoretical Understanding
- Practical Application of knowledge
- Autonomy, Responsibility, Context