EN8231  Control System Design

Course Aim  To apply analysis and design techniques for the control of feedback systems and to apply the specification, analysis and design of feedback control systems using software simulation and control design software.

<table>
<thead>
<tr>
<th>Short Title</th>
<th>EDICT</th>
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<tbody>
<tr>
<td>Faculty</td>
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<tr>
<td>Credits</td>
<td>15</td>
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<tr>
<td>Pre-requisites</td>
<td>EN6230 (ENB5230) &amp; EN7007 (ENB6007)</td>
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<tr>
<td>Co-requisites</td>
<td>None</td>
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<tr>
<td>Anti-requisites</td>
<td>EN8230 (ENB7230)</td>
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On successful completion of this course, students will be able to:

1. Demonstrate critical knowledge related to the analysis of stability and performance in closed-loop control systems.
2. Apply specialist skills in the advanced analysis and design of feedback control systems using software simulation and control design software.
3. Design, implement, test experimentally and critically analyse the effectiveness of a feedback control system for a practical engineering application.

Other directed hrs 90
Self-directed hrs 60
Total learning hrs 150

Effective From  February 1, 2016
Indicative NQF Level 8
Student Contact hrs 60
Other directed hrs 0
Total learning hrs 150

NQF Sub-strand  Theoretical
Understanding
Practical
Application of knowledge
Practical
Application of knowledge