

# MECH3023 Building Energy Management and Control Systems

http://me.hku.hk/bse/mech3023/

## Summary of Teaching (Dr. Sam C. M. Hui)

<p><b>1. Building Energy Use (BEU)</b></p> <ul style="list-style-type: none"> <li>1.1 Energy Use in Buildings</li> <li>1.2 Energy Efficiency</li> <li>1.3 Submetering</li> <li>1.4 Demand Analysis</li> <li>1.5 Load Inventory</li> </ul> <p><b>2. Building Energy Management (BEM)</b></p> <ul style="list-style-type: none"> <li>2.1 Energy Management System</li> <li>2.2 ISO 50001</li> <li>2.3 Energy Information System</li> <li>2.4 Building Energy Audits</li> </ul>	<p><b>3. Dynamic Building Performance Simulation (BPS)</b></p> <ul style="list-style-type: none"> <li>3.1 Building Energy Simulation</li> <li>3.2 Simulation Tools</li> <li>3.3 Applying Simulation</li> <li>3.4 Modelling Process</li> <li>3.5 Simulation Skills</li> </ul> <p><b>4. Analysis of Building Services Systems (BSS)</b></p> <ul style="list-style-type: none"> <li>4.1 Overview</li> <li>4.2 Ventilation Strategy</li> <li>4.3 Displacement Ventilation</li> <li>4.4 Chilled Ceiling</li> <li>4.5 Lighting Control</li> </ul>
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Concept Map:

