## **MEBS6016 Energy Performance of Buildings**

http://me.hku.hk/bse/MEBS6016/

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

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1.	Introduction	6.	Economic and Financial Analysis
1.1	Course Overview	6.1	Investment Appraisal
1.2	Energy Basics	6.2	Financing Options
1.3	Energy Use in Buildings	6.3	Building Economic Analysis
1.4	Energy Efficiency	6.4	Whole Life Costing
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2.	Energy Efficiency in Buildings (I)	7.	Energy Efficient Technologies
2.1	Energy Policy and Codes	7.1	Building Envelope
2.2	Current Situation in HK	7.2	HVAC
2.3	Assessment of Performance	7.3	Hot Water
2.4	EU Directive on Energy Performance of Bldgs.	7.4	Lighting
2.5	Implications for HK	7.5	Electrical Services
	-	7.6	Lifts & Escalators
3.	Energy Efficiency in Buildings (II)	7.7	Building Management System
3.1	Basic Principles		
3.2	Building Energy Design	8.	Building Energy Standards and Codes
3.3	Building Operation and Energy Management	8.1	ASHRAE 90.1
3.4	Energy Performance Contracting	8.2	Structure and Scope
		8.3	Compliance Options
4.	<b>Energy Information Systems</b>	8.4	Energy Cost Budget Method
4.1	Energy Information System	8.5	Performance Rating Method
4.2	Data Analysis Techniques	8.6	Hong Kong BEC
4.3	Practical Applications		
		9.	Building Energy Simulation
5.	Energy Auditing of Buildings	9.1	Building Energy Simulation
5.1	Basic Concepts	9.2	Simulation Tools
5.2	Types of Energy Audits	9.3	Applying Simulation
5.3	Planning of Energy Audits	9.4	Modelling Process
5.4	Energy Audit Process	9.5	Simulation Skills
5.5	Energy Audit Report		
5.6	Energy Management Opportunities		
5.7	Implementation Issues		

## Concept Map:

