

# **FMT307 Energy Management and Audit**

**Level:** 3

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY JULY

## **Synopsis:**

FMT307 Energy Management & Audit focuses on the understanding of the energy legislation, codes and regulations, energy management system, building energy audit process, impact of measurement accuracy on audit results and conducting the analysis of audit findings. Upon graduation, students who have completed and passed FMT302, FMT307 and FMT315 will be issued the Building and Construction Authority (BCA)'s Green Mark Accredited Professional (GMAP).

## **Topics:**

- Energy Management Overview
- Energy Management Approaches
- Need for Energy Audit
- Types of Energy Audit
- Energy Economic Analysis
- Cost prediction for Energy Saving
- Budget Planning
- Procurement Procedures
- Introduction and Definition of Different Energy Audit Level
- Analysis Methodology and Accuracy for Energy Consumption
- Energy Performance Diagnosis and Analysis
- Audit Report

## **Textbooks:**

FMT307 Study Guide (UDC - SUSS) SUSS  
ISBN-13: SG-1334

**Learning Outcome:**

- Demonstrate an understanding of energy management approaches
- Discuss the need for energy audit
- Propose analysis methodology for energy management audit
- Implement financial analysis and cost prediction for energy saving
- Analyze energy performance
- Set up energy audit investigation and collection of measurements using different tools

**Assessment Strategies - Regular Semester (Evening Class):**

<b>Components</b>	<b>Description</b>	<b>Weightage Allocation (%)</b>
Overall Continuous Assessment	PRE-CLASS QUIZ 1	2
	PRE-CLASS QUIZ 2	2
	PRE-CLASS QUIZ 3	2
	LAB REPORT 1	10
	TUTOR-MARKED ASSIGNMENT 1	14
Overall Examinable Components	Written Exam	70
<b>Total</b>		<b>100</b>

\*The information listed is subject to review and change.