

# MANAGEMENT ENGINEERING (LM54)

(Lecce - Università degli Studi)

## Teaching ENERGY MANAGEMENT

GenCod A004627

**Owner professor** Arturo DE RISI

**Teaching in italian** ENERGY MANAGEMENT

**Teaching** ENERGY MANAGEMENT

**SSD code** ING-IND/09

**Reference course** MANAGEMENT ENGINEERING

**Course type** Laurea Magistrale

**Credits** 9.0

**Teaching hours** Front activity hours: 81.0

**For enrolled in** 2020/2021

**Taught in** 2020/2021

**Course year** 1

**Language** ENGLISH

**Curriculum** Percorso comune

**Location** Lecce

**Semester** First Semester

**Exam type** Oral

**Assessment** Final grade

**Course timetable**  
<https://easyroom.unisalento.it/Orario>

### BRIEF COURSE DESCRIPTION

- Focus on corporate issues and optimise professional skills at a managerial level
- Gain in-depth knowledge and vision of energy technologies, industries and markets
- Develop and implement a strategic mindset to address major future issues within the energy industry
- Strengthen your ability to live and work in a highly multicultural and international environment

### REQUIREMENTS

No previous course afre required

### COURSE AIMS

Supply all the informations to:  
monitor and manage the energy efficiency of a facility or organization;  
to implement conservation measures, monitor **energy** consumption;  
to assess business decisions for sustainability;  
to seek out opportunities for increasing **energy** efficiency.

### TEACHING METHODOLOGY

Frontal lessons and exercises

### ASSESSMENT TYPE

oral exam and discussion of an individual project

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## FULL SYLLABUS

Energy Audit - Regulation parts 1-2-3-4  
Fundamentals of thermodynamical and electrical measurements  
Data acquisition software and hardware  
Energy Diagnosis of complex systems and buildings  
Fundamental of HVAC systems  
Fundamental of Solar Renewable Energy Plant  
Investment analysis  
Economic technical analysis  
Case Studies

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## REFERENCE TEXT BOOKS

Class Notes  
WAYNE C. TURNER, ENERGY MANAGEMENT HANDBOOK, THE FAIRMONT PRESS, INC, Lilburn,  
Georgia