



Doctor of Philosophy in Mechanical Engineering (PhD ME):

Doctor of Philosophy in Mechanical Engineering (PhD ME) prepares postgraduate students for independent research work, with strong emphasis on generation of new knowledge in any of the following fields of study: Thermo-Fluids Engineering, Energy and Environmental Technologies, and Mechatronics/Robotics.

Course Requirements:

Specialization Courses	12 units
Philosophy Course	3 units
Seminar	3 units
Dissertation	12 units
TOTAL	30 units

ME Graduate Courses:

- A. Orientation
COE 5000 – DLSU Orientation

- B. Basic Subject
COE 5200 – Methods of Research

- C. Advanced Mathematics (required 6 units)
COE 5100 – Statistical Design
COE 5320 – Numerical Methods
COE 5330 – Advanced Mathematical Methods

- D. Foundation Subjects (required 12 units for M Eng)

- E. Major Subjects (required 15 units for MS and M Eng)

Mechatronics:

Mechatronic Design
Instrumentation and Precision Engineering
Industrial Automation and Control
Biomechanics
Control Engineering
Special Topics in Mechatronics

Mechanical Design:

Mechanical System Design with Optimization Techniques
Advanced Vibration Analysis
Safety Requirements for Machines and Equipment
Special Topics in Mechanical Design

Thermo-Fluids Engineering:

Advanced Heat Transfer
Computational Fluid Dynamics
Advanced Thermodynamics
Application of Fluid Mechanics
Special Topics in Thermo-Fluids Engineering



De La Salle University

Energy and Environment:

Alternative Sources of Energy

Advanced Refrigeration, Theory and, Application

Cleaner Production Technology and Environmental Management

Energy Engineering

Advanced Air Conditioning and Ventilation

Energy Systems Modeling And Design

Rational Use of Energy

Special Topics in Energy and Environment