



# De La Salle University

## Master of Engineering major in Mechanical Engineering (M Eng ME):

The Master of Engineering major in Mechanical Engineering (M Eng ME) Program prepares engineers for advanced professional practice. The degree is accomplished through the completion of courses and practicum with special project. The practicum with special project trains graduate students to apply theories and methods learned in school to actual industry problems.

### *Course Requirements:*

Foundation Subjects	12 units
Basic Subjects	9 units
Major Subjects	15 units
Cognates/Electives	6 units
Practicum	6 units
TOTAL	48 units (1 unit)

### Notes:

1. The number of Foundation Subjects that students take may be reduced or waived; however, students have to complete their 48-unit requirement by taking more Cognates/Electives as substitute courses.
2. Non-DLSU graduates are required to pass a one-unit noncredit Orientation course.
3. Cognates/Electives may be chosen from other engineering graduate programs.

### 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



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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

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