



**Letran-Calamba**  
Graduate School & Professional Services

Cognates		With Thesis	
Basic Courses	6	Basic Courses	6
Major Courses	24	Major Courses	24
Internship	3	Internship	3
Cognates	6	Thesis Writing	6
<b>Total</b>	<b>39</b>	<b>Total</b>	<b>39</b>

# Master in Management in Engineering Management (MM-EM)

## Admission Requirements

1. Official Transcript of Records (Original)
2. Two letters of recommendation
3. Photocopy of marriage contract (for married females)
4. Photocopy of birth certificate
5. 2 (2x2) and 2 (1x1) pictures
6. Admission fee : P 400.00

## Entry Requirement

Open to men and women holding any position in offices, agency, and corporation with at least one year working experience.



For more information:



## Graduate School & Professional Services

2/f Juan Macias Building  
Colegio de San Juan de Letran-Calamba

## Main Trunklines

(049) 545-5453/ 4363/ 5447 local 2037

**Office Hours:** 9:00 AM-6:00 PM – Monday to Friday  
8:00 AM – 6:00 PM – Saturday

[www.lettran-calamba.edu.ph](http://www.lettran-calamba.edu.ph)

**email:** [gsps@lettran-calamba.edu.ph](mailto:gsps@lettran-calamba.edu.ph)

## Objective of the Program

The Master in Management, major in Engineering Management (MM-EM) enhances the capabilities of engineering faculty members and cadet engineers by updating them on the advances and recent developments in Engineering and Technology, and by strengthening their comprehension of engineering principles. The program emphasizes the continuity of management and engineering-related efforts from planning through design to execution. In addition to technical engineering topics, the program provides managerial, business, marketing, legal and information systems tools for an engineering management career in either the industry or academic sector. The students will emerge with management and business skills to allow effective performance in directing engineering organizations and in assessing clients' and potential clients' options from a business and engineering standpoint.

## Pre-MM-EM Course

### **MEM 113 Foundations of System Engineering Management (3)**

A study on the theoretical aspect of systems analysis, systems procedure and methodologies. It focuses on systems definition, conceptual design, test and evaluation, optimization in design and operation, and design for reliability, maintainability, supportability, and manageability.

## Basic Courses

### **MBM123- Theories and Principles in Research 3**

The student is introduced to research concepts relevant to management of specialization. Discussions center on how to prepare a thesis emphasizing choice of title, statement of the problem, sources of data, analysis and evaluation of information gathered among others. Course output is a thesis topic proposal.

### **MBM143- Statistical Analysis and Design 3**

This course is an introductory course for graduate students with or without prior knowledge of statistics. The goal of the course is to provide students with the necessary foundation for subsequent statistics and research courses, particularly in their researches. The course also covers the statistical models and techniques for management decision-making.

## Major Courses (with training equivalency)

### **MBM113 - Organizational Communication 3**

This course deals with the examination of organizational communication theories, communicative implications of historical and modern management theories, as well as special interest topics. Major topics include cultural and critical approaches to organizational communication, classical management and human relations theory, and communication effectiveness. Special topics may include terms in organization, diversity, organizational politics, leadership and change. Focus is made on applying organizational communication theories and concepts to understand others better and to control one's own communication in organization.

### **MBM163- Organizational Development 3**

Human behavior and organization dynamics, theory and assumptions, organizational analysis and plans are discussed. It analyzes the nature of organizations, human nature and needs, the complex set of behavior forces and the influence of organizational effectiveness.

### **MBM153- Financial and Investment Management 3**

It introduces techniques of financial analysis and projection, covering topics like capital budgeting, inventory management, cash management, short term sources, and uses of funds etc. Actual financial problems faced by business concerns are analyzed through the use of case materials. The course focuses further on the principles, practices and analysis of investments as well as the portfolio management for individuals and institutions.

### **MEM153- Environmental Technology Management 3**

This course introduces students to various activities in society involving the transformation of material and energy for the benefit of the community. Students are made aware of both the economic and environmental impact of these activities to society.

### **MEM173 - Facility Planning and Design 3**

This course provides the students with an overall perspective of operations management within the context of the organization. The course emphasizes on the importance of facility planning, layouting and materials management in a business environment.

### **MBM213 - Production and Operations Management 3**

This is a study on design, operation, planning, and controlling of productive systems in producing goods and services. It focuses on the theories, concepts, and techniques of forecasting, location planning, process selection and capacity planning, facilities layout, design of work systems, aggregate planning, inventory management, materials requirement planning, just-in-time, scheduling, waiting line, quality assurance, etc. The course is designed to equip students with skills in employing various approaches in solving management problems.

### **MEM233 - Total Quality Management 3**

This is a study on the integration of all functions and processes within an organization to achieve continuous improvement of the quality of goods and services with the goal of achieving customer satisfaction. It focuses on the integration of all organizational and management sub-systems to seek and explore opportunities for improvement at all levels.

### **MEM193 - Advanced Engineering Management 3**

This tackles advanced principles and concepts of organizations, development of engineering and management skills, and introduction of scientific management in the administration of various areas of engineering operations.

### **MBM253 - INTERNSHIP 3**

The aim of this course is to give the Graduate School students opportunities to examine first-hand knowledge and theories learned in the classroom for their wider impact in the industry and on society. Students must undergo internship outside their own companies/organizations. They may enroll this course during their 4<sup>th</sup> or 5<sup>th</sup> semester in the Graduate School, or when all professional subjects have been taken.

## Thesis Writing 6

1. Students must pass the oral and written comprehensive examination before enrolling in thesis writing.
2. This may be enrolled in one trimester provided all requirements are completed within the term.

### **MBM223 - Thesis Writing I (Proposal) 2**

The course guides the students through the process of making a thesis proposal on any area of concern in management he/she may deem suitable for his/her purpose in conformity with accepted standards. The output of this course is the thesis proposal, which is to be defended before a panel of examiners.

### **MBM243 - Thesis Writing II (Colloquium) 2**

The course guides the students through the process of sharing his/her research output to the public. Reactors will be invited to help deepen the paper.

### **MBM263 - Thesis Writing III (Final) 2**

This course guides the student in the completion of the defended thesis proposal. The thesis must be defended before a panel of examiners appointed by the graduate school dean, at a time and place designated for the purpose.

## Cognates Program 6

Student may choose major courses from other programs

**Oral and written comprehensive examinations are required for all students enrolled in thesis and non-thesis program.**