Universidad Politécnica de Puerto Rico
Graduate School
Master Program in Manufacturing Engineering

M.S.M.E. (Thesis Option)
- Core courses: 12 credit-hours
- Special Area: 12 credit-hours
- Electives Area: 6 credit-hours
- Thesis: 6 credit-hours
- Total: 36 credit-hours

M.E.M.E. (Design Project Option)
- Core courses: 12 credit-hours
- Special Area: 12 credit-hours
- Electives Area: 9 credit-hours
- Design Project: 3 credit-hours
- Total: 36 credit-hours

Core Courses
- MMP 6000 - Advanced Statistics and Quality Improvement
- MMP 6002 – Operations Planning and Control
- MMP 6005 – Process Engineering
- MMP 6006 – Lean Manufacturing
- SEMI 5500 – Business Writing and Presentation Skills Seminar

Special Area:
- Students with a Bachelor’s degree in Industrial Engineering must substitute this course with an elective course with MMP code.
- Students with a Bachelor’s degree in Chemical Engineering must substitute this course with an elective course with MMP code.

Pharmaceutical Processes
- Must select 12 credits including MMP 6132 which is required

Specialization Courses
- Industrial Automation
  - Must select 12 credits including MMP 6141, 6143, and 6246 which are required

Electives Courses*
- MMP 6145 – Lean Six Sigma
- MMP 6162 – Medical Devices I
- MMP 6518 – Project Management
- MMP 6520 – Industrial Systems Simulation
- MMP 6535 – Research in Manufacturing

* In addition to the current list of elective courses, the student could select as an elective any course with MMP code that is not specified as a core or specialization course component requirement.

Thesis
- MMP – 6800 - Thesis
- MMP – 6801 – Thesis Extension

Design Project
- MMP 6700 – Design Project
- MMP 6701 – Design Project Extension

Contact Information:
Graduate School
E-mail: escuelagraduada@pupr.edu
Phone: 787-622-8000 Ext. 686

Rev. SP-14
Universidad Politécnica de Puerto Rico
Graduate School
Master Program in Manufacturing Engineering

M.S.M.E.
(Thesis Option)

- Core courses: 12 credit-hours
- Special Area: 12 credit-hours
- Electives Area: 6 credit-hours
  - Thesis: 6 credit-hours
  - Total: 36 credit-hours

M.E.M.E.
(Design Project Option)

- Core courses: 12 credit-hours
- Special Area: 12 credit-hours
- Electives Area: 9 credit-hours
  - Design Project: 3 credit-hours
  - Total: 36 credit-hours

Core Courses

- MMP 6000 - Advanced Statistics and Quality Improvement
- MMP 6002 – Operations Planning and Control
- MMP 6006 – Lean Manufacturing
- MMP 6008 – Foundations in Quality Learning and Assurance
- SEMI 5500 – Business Writing and Presentation Skills Seminar

1 Students with a Bachelor’s degree in Industrial Engineering must substitute this course with an elective course with MMP code.

Specialization Courses

Quality Management

- Must select 12 credits including MMP 6130 which is required

- MMP 6130 – Six Sigma
- MMP 6190 – Measuring and Managing Customer Satisfaction and Loyalty
- MMP 6250 – Audit Program Management
- MMP 6256 – Assessment Tools to Improve Business Performance
- MMP 6558 – Machine and Process Characterization
- MMP 6570 – Design & Implementation of Statistical Sampling Plans

Electives Courses*

- MMP 6145 – Lean Six Sigma
- MMP 6162 – Medical Devices I
- MMP 6518 – Project Management
- MMP 6520 – Industrial Systems Simulation
- MMP 6535 – Research in Manufacturing
- MMP 6550 – Ergonomics and Human Factors in the Workplace
- MMP 6552 – Industrial Safety of OSHA Regulations
- MMP 6560 – Organizational Behavior
- MMP 6599 – Special Topics in Manufacturing

* In addition to the current list of elective courses, the student could select as an elective any course with MMP code that is not specified as a core or specialization course component requirement

Thesis
- MMP – 6800 - Thesis
- MMP – 6801 – Thesis Extension

Design Project
- MMP 6700 – Design Project
- MMP 6701 – Design Project Extension

Contact Information:
Graduate School
E-mail: escuelagraduada@pupr.edu
Phone: 787-622-8000 Ext. 686
Rev. SP-14