



Polytechnic University of Puerto Rico
 Graduate School
 Master Program in Electrical Engineering



M.S.E.E. (Thesis Option)	M.Eng.E.E. (Non Thesis Option)
Core Courses: 9 credit-hours Electives: 15 credit-hours Thesis: 6 credit-hours Total: 30 credit-hours	Core Courses: 9 credit-hours Electives: 30 credit-hours Total: 39 credit-hours

**Communication Systems
 Area of Interest**

Core Courses

EE 6010 - Math. Methods for Signal Processing
 EE 6020 - Stochastic Processes
 EE 6760 – Digital Communications

Elective Courses

(Thesis option requires 15 credit-hours. Non-thesis option requires 30 credit-hours)

EE 6030 – Linear Systems
 EE 6720 - Pattern Recognition
 EE 6770 - Satellite Communication Systems
 EE 7712 – Image Processing
 EE 7716 - Computer Vision

EE 7740 - Algorithms for Digital Signal Processing
 EE 7772 – Wireless Communications
 EE 7780 - Special Topics in Signal Processing
 EE 7782 - Project in Signal Processing

The student may include up to 6 credit-hours selected from this list:

EE 5714 - Digital Communications Systems*
 EE 5720 - Digital Signal Processing*
 EE 5730 - RF Circuit Design

The student may include up to 6 credit-hours selected from this list:

EE 6120 - Computer Architecture
 EE 6130 - Data Comm. and Comp. Networks
 EE 6150 - Object Oriented Design
 EE 6510 - Software Engineering

CECS 6010 - Advanced Design and Analysis
 of Algorithms
 CECS 6240 - Technology-Based Start-Up
 CECS 7550 - Artificial Intelligence

Thesis or Project

EE 7800 – Thesis
 EE 7801 – Thesis Extension
 EE 7790 – Project for Master in Electrical Engineering
 EE 7791 – Project Extension for Master in Electrical Engineering

* Must be taken if not completed during the undergraduate studies



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**Digital Signal Processing
 Area of Interest**

Core Courses

EE 6010 - Math. Methods for Signal Processing
 EE 6020 - Stochastic Processes
 EE 6030 - Linear Systems

Elective Courses

(Thesis option requires 15 credit-hours. Non-thesis option requires 30 credit-hours)

EE 6632 - Non-Linear Control
 EE 6660 - Advanced Robotics Manipulators
 EE 6720 - Pattern Recognition
 EE 6740 - Intelligent Control
 EE 6760 - Digital Communications
 EE 6770 - Satellite Communication Systems

EE 7712 - Image Processing
 EE 7716 - Computer Vision
 EE 7740 - Algorithms for Digital Signal Processing
 EE 7772 - Wireless Communications
 EE 7780 - Special Topics in Digital Signal Processing
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