



UNIVERSIDAD POLITÉCNICA DE PUERTO RICO
GRADUATE PROGRAMS IN ELECTRICAL ENGINEERING
2026 – 2028



COURSE	COURSE TITLE	PRE-REQUISITE	FA	WI	SP	FA	WI	SP
			26	26	27	27	27	28
CORE COURSES								
EE 6010	Mathematical Methods for Signal Processing	Calculus & Diff Eq.			X			X
EE 6020	Stochastic	Prob & Stat or RP.	X			X		
EE 6030	Linear Systems	None		X			X	
EE 6400	Direct Energy Conversion and Renewables	None		X			X	
EE 6402	Market, Environmental, and Public Policy Issues of Energy Systems	None	X			X		
EE 6760	Digital Communications	EE 5714			X			X
DIGITAL SIGNAL PROCESSING ELECTIVES								
EE 6632	Non-Linear Control	Under. Linear Syst.	TBA	TBA	TBA	TBA	TBA	TBA
EE 6720	Pattern Recognition	None	TBA	TBA	TBA	TBA	TBA	TBA
EE 6740	Intelligent Control	Under. Linear Syst	TBA	TBA	TBA	TBA	TBA	TBA
EE 7712	Image Processing	None	TBA	TBA	TBA	TBA	TBA	TBA
EE 7730	Speech Processing	None	TBA	TBA	TBA	TBA	TBA	TBA
EE 7740	Algorithms for Digital Signal Processing	None	TBA	TBA	TBA	TBA	TBA	TBA
EE 7780	Special Topics in Signal Processing (Open Schedule, DSP/Comm, 3 Credits Maximum.)	GPCA*	TBA	TBA	TBA	TBA	TBA	TBA
COMMUNICATION SYSTEMS ELECTIVES								
EE 6770	Satellite Communication Systems	EE 5714	TBA	TBA	TBA	TBA	TBA	TBA
EE 7772	Wireless Communications	EE 5714	TBA	TBA	TBA	TBA	TBA	TBA
EE 7780	Special Topics in Signal Processing (Open Schedule, DSP/Comm, 3 Credit Maximum)	GPCA*	TBA	TBA	TBA	TBA	TBA	TBA
POWER SYSTEMS AND RENEWABLE ENERGY ELECTIVES								
EE 6410	Smart Grids and Distributed Generation	EE 6400				X		
EE 6412	Energy Management	None				X		
EE 6420	Power Systems Transients	None	X					
EE 6422	Power Systems Dynamic Stability	EE 4400					X	
EE 6424	Power Systems Operation, Control, and Planning	None						X
EE 7410	Drives and Controls for Energy Conservation and Alternate Sources	EE 4520 & EE 6400			X			
EE 7420	Advanced Electrical Power Quality	EE 4422						X
EE 7422	Grounding Systems	EE 4422		X				
ADVANCED UNDERGRADUATE REQUIRED (if not already taken)								
EE 4422	Electric Power Quality	EE 3420 & EE 4400	X			X		
EE 4432	Power System Protection	EE 4400	X	X	X	X	X	X
EE 4438	Smart Distribution System Engineering	EE 3420 & EE 4400	X	X	X	X	X	X
EE 4452	Alternative Generation Systems	EE 3420 & EE 4400	X	X	X	X	X	X
EE 4462	Electrical Construction Project Management	EE 4444			X			X
EE 4466	Renewable Energy Systems	EE 2020 & EE 2402	X		X	X		X
EE 5714	Digital Communication Systems (Required DSP/Comm)	EE 4704, Co-req: EE 4710		X		X		X
EE 5720	Digital Signal Processing (Required DSP)	UG Signals and Syst. & Prob and Stat.	X	X	X	X	X	X
PROJECT/THESIS								
EE 7790	Project for MEE (DSP/Comm, 3 Crd Max)	GPCA*	X	X	X	X	X	X
EE 7791	Project Ext. for MEE (DSP/Comm, 3 Crd Max)	EE 7790	X	X	X	X	X	X
EE 7800	Thesis	GPCA*	X	X	X	X	X	X
EE 7801	Thesis Extension	EE 7800	X	X	X	X	X	X
OTHER COURSES								
GMP 6010	Professional Writing and Presentations	None	X	X	X	X	X	X
GMP 6050	Professional Internship through COOP Program	GPCA*						
GMP 6510	Research Methodology	18 Credits Approved	X	X	X	X	X	X

* Graduate Program Coordinator’s Approval
** Students could also select a maximum of 6 credit as electives courses from the MCS or MCPe Program
***In addition to the current list of elective courses, the student could select as an elective any course with EE code that is not specified as a core or specialization course component requirement.