



PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE
College of Engineering

Major in Electrical Engineering

I. Program Educational Objectives:

Students finishing successfully the program requirements obtain the Bachelor of Science in Engineering, with Major in Electrical Engineering.

The Program Educational Objectives for Major in Electrical Engineering are:

1. Our graduates will have the knowledge and proficiency necessary for professional practice in Electrical and Electronic Engineering, including technical skills in areas such as Robotics and Automation, Electrical Energy, Signal Processing, Telecommunications, Astronomical Instrumentation, and Electronics.
2. Our graduates will develop technological innovation projects in Chile and/or abroad, generating solutions to complex engineering problems.
3. Our graduates will seek to grow professionally through lifelong learning and/or graduate studies within Electrical Engineering and beyond.
4. Our graduates will demonstrate a critical spirit on their performance and will conduct themselves with a personal and professional code of ethics, seeking to serve society.
5. Our graduates will have the ability to analyze and understand the relationships between technology and organizations, applying engineering methodologies in order to improve their management.
6. Our graduates will be able to collaborate globally, participating in interdisciplinary and culturally diverse teams, and advance in leadership positions throughout their careers.

*PEOs approved by all constituents of the EE Program.
Final promulgation by EE Program Committee on 19 January 2021.*



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II. Student Outcomes:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

III. Student Admissions:

Students are initially admitted to a common study program that is the same for any engineering area. As student progress in time, programs differentiate according the engineering area.

Student Admission*	
Year	N° Students
2011	543
2012	553
2013	716
2014	732
2015	719
2016	726
2017	732
2018	740
2019	772
2020	808

*Regular Admission (PSU) and Special Admission (PSU Process).



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IV. Program enrollment and degree data:

ACADEMIC YEAR	ENROLLMENT YEAR*					UNDERGRAD PER COHORT				TOTAL UNDERGRAD**
	1st	2nd	3rd	4th	5th+	2013	2014	2015	2016	
2019	55	45	54	55	103	11	24	21	3	59
2018	45	54	55	49	81	9	17	1		27
2017	54	55	49	61	37	14	2			16
2016	55	49	61	37						
2015	49	61	37							
2014	61	37								
2013	37									

*At the begging of each academic year

** At the end of each academic year