



ELECTRICAL ENGINEERING PROGRAM

Exit Profile

Exit profile related to relevance, bio-awareness, responsible participation, honesty, among other aspects.

Profile	Learning outcome
The graduate:	1.1 Values points of view given by peers.
1. Works cooperatively	1.2 Shares ideas and points of view aimed to achieve learning goals.
within the framework of	1.3 Promotes agreements with positive, respectful attitude and critical
respect for diversity.	perspective.
	1.4 Commits to given responsibilities within group.
2. Behaves under ethical	2.1 Supports axiological dimensions of the human being.
principles: supports	2.2 Shows strong values in actions performed.
riahts and promotes	2.3 Is knowledgeable of fundamental human rights.
citizenship practices in a	2.4 Identifies the normative framework, institutions and proceedings that
framework of liberty.	ensure human rights.
j	2.5 Puts into practice and demands the practice of rights.
	2.6 Takes with responsibility the obligations that generate rights
	2.7 Respects freedom of others.
	2.8 Identifies structural conditions that restrict freedom
	2.9 Reprehends every situation that threatens human dignity.
	2 10 Rejects all types of imposition authoritarianism discrimination and
	exploitation.
	2.11 Promotes democratic coexistence and the active participation of
	citizens.
	2.12 Values the necessity of a fair, supportive and equitative society (Well
	Being).
	2.13 Gets involved in social commitment initiatives.
	2.14 Interprets the sense of being an "honest citizen" according to UPS
	principles.
	2.15 Shows values in every performance.
	2.16 Identifies the regulatory framework and the institutions and
	proceedings that ensure rights.
	2.17 Exercises and demands the practice of rights.
3. Finds the	3.1 States faith, beliefs, principles and spiritual values.
transcendent dimension	3.2 Respects spiritual and religious manifestations of others.
and opts for the	3.3 Evidences spiritual and religious values in university actions.
relegated ones	3.4 Values the personal life project.
regarding human	3.5 Collaborates with projects that benefit the impoverished.
existence.	3.6 Analyzes financial, social and cultural inequalities at local and national
	levels.
	3.7 Identifies possible solutions to situations of economic inequality.
4. Values the interaction	4.1 Identifies the evolution of STS studies.
among science,	4.2 Explains the main problems generated by the uses of science and
technology and society.	technology in society.
	4.3 Proposes solution alternatives to problems in the field of STS.
	4.4 Takes an ethical stance towards STS interrelationships.
	4.5 Understands science and technology as a tool at the service of a just,
	equitable and harmonious society.





Profile	Learning outcome
5. Understands the	5.1 Examines the evolution of the cosmos.
human being as an	5.2 Explains the historicity of the human being.
integrated being and	5.3 Identifies the human being as an integral being.
contributes to the	5.4 Recognizes the multiethnic, intercultural and plurinational reality of
strengthening of an	today's society.
intercultural and	5.5 Explains the concepts of culture, multiculturalism and interculturalism.
inclusive society for	5.6 Promotes intercultural dialogue.
Well Being.	5.7 Exerts inclusive practices.
6. Behaves under social	6.1 Is sensitive to the impoverished by defending justice, welfare and
and environmental	solidarity.
principles.	6.2 Constructs citizenship: is democratic, participatory, communitarian,
	demands rights and observe duties; promotes the culture of peace.
	6.3 Is ecological: seek harmony among human beings, nature and deity (ies).
	6.4 Is ethical: responsible for own actions, in solidarity with fellow human
	beings; act under principles and values.

Profile related to mastery of theories, conceptual systems, methods and languages for the integration of knowledge, profession, and research that will be developed by the future professional. The graduate:

1. Models, simulates and interprets the elements and their operating conditions in the electrical system, through the knowledge of electrical technologies, complemented with logic, mathematics and physics.

- 2. Participates in research programs in areas of interest in the electrical field.
- 3. Knows standards and regulations of lighting systems.
- 4. Analyzes, selects and supervises the assembly of electrical machines in the traction area.
- 5. Knows and applies current norms and standards to carry out designs and audits in the

electrical and industrial sector.

6. Analyzes and selects the necessary equipment in order to guarantee an adequate integration of the electrical systems to improve reliability.

Profile related to learning with regard to cognitive abilities and generic competences.

Profile	Learning outcome
The graduate:	1.1 Understands academic texts at a literal level.
1. Uses academic and	1.2 Interprets academic texts
professional language	1.3 Elaborates academic texts in spoken and written form.
in spoken and written	1.4 Performs comprehensive reading of academic texts in a foreign
form.	language.





Profile	Learning outcome
2. Reasons logically	2.1 Identifies the structure of logical thinking.
and mathematically.	2.2 Identifies fallacies in discourse
	2.3 Elaborates coherent and logical discourse.
	2.4 Uses mathematical logic
	2.5 Is engaged in argumentative dialogues.
3. Uses ICTs	3.1 Applies computer tools for the development of their academic and professional activities.3.2 Uses communication networks to access information.3.3 Is involved in academic and professional networks.
4 Manages innovative	4.1 Identifies elements from an innovative project
nroiects in order to	4.2 Diagnoses needs in the surrounding environment
transform reality from	4.3 Ethically manages intervention proposals from professional practice.
their professional practice.	
5. Identifies the	5.1 Identifies the difference between real and theoretical objects as a
different forms of	production of science.
knowledge production.	5.2 Identifies science as a western historical cultural production.
	5.3 Develops proposals that promote intercultural dialogue of knowledge.
	5.4 identifies the theoretical and political conditions that cause the crisis of
	scientific paradigm.
	5.5 Identifies the critical thinking trends.
	5.6 Identifies the fundamental categories to understand social complexity. 5.7 Applies the critical thinking methods and other knowledge depending on
	the circumstances.
	5.8 Shows openness to dialogue with other knowledge and disciplines.
	5.9 Contributes with the creation of environments and processes that
	benefit a culture of criticality.
	5.10 Shows capacity for self-criticism.
	5.11 Develops continuous and constant processes of self-learning.
6. Develops research	6.1 Comprehends the plurality and epistemic complexity in the production
processes from a	of knowledge.
theoretical, empirical	6.2 Systematizes knowledge and information rigorously.
and methodological	6.3 Explains the process of production of scientific knowledge.
perspective.	6.4 Recognizes the plurality of research methods.
	6.5 Designs scientific research projects.
	6.6 Researches with scientific and academic rigor.
	6.7 Writes research reports.

Profile related to the management of professional and research models, protocols, processes and proceedings. The graduate:

1. Plans, designs, implements, operates and performs maintenance of electrical systems in their generation, transmission and distribution stages, as well as in the industrial sector.

2. Develops with entrepreneurial vision projects in the electric field considering norms and standards of environmental care.





- 3. Designs, models, simulates, audits and installs lighting systems.
- 4. Designs and implements systems for the improvement of the quality of electric energy.
- 5. Designs, implements and operates monitoring systems for electrical systems.
- 6. Designs, simulates and supervises renewable energy systems focused on nonconventional generation.