

MECHANICAL METAL ENGINEERING GRADUATION PROFILE

MISSION

Provide a quality education to train professionals in Mechanical Metal Engineering, in order to generate comprehensive skills in the technical and human, to innovate metal mechanical projects, validate the processes used in the manufacture of mechanical parts and supervise the resources inherent to their field of application. Carry out technological or social entrepreneurship projects, assuming professional and developmental commitments.

VISION

To be the best educational option with recognized prestige for the integral formation of its students in the technical and human aspects; with a high level of relevance; with perspective of their environment and with the ability to respond according to the new skills that human resources require to face the technological and market changes of 4.0 Industry. Assume the commitment to the labor integration of the graduates, sustainability and social responsibility.

GRADUATION PROFILE BY COMPETENCES

GRADUATION ATTRIBUTES

Innovate Metal Mechanical projects by applying reengineering to maintain and improve the competitiveness of the organization.

Validate the processes used in the manufacture of mechanical parts in accordance with the requirements, norms and applicable standards to guarantee their quality.

Basic Sciences. Raise and solve engineering problems based on the principles and theories of physics, chemistry and mathematics, through the scientific method to support decision-making in the scientific and technological fields.

Management. Develop and lead organizations through the ethical exercise of leadership, with a systemic approach to contribute to the achievement of strategic objectives.

English. Communicate feelings, thoughts, knowledge, experiences, ideas, reflections, opinions, in the public, personal, educational and occupational spheres, productively and receptively in the English language according to level B1, independent user, of the European Framework of Reference to contribute in the performance of their functions in their work, social and personal environment.

EDUCATIONAL OBJECTIVES

1. Develop and manage maintenance strategies in public and private companies to guarantee the operation and contribute to productivity in its different areas.
2. Diagnose and repair hydraulic, electromechanical, electronic and industrial distribution networks to maintain their availability.
3. Undertake and incubate the creation of new technology-based companies that promote the socio-economic development of the region, as well as its legal constitution.
4. Update their knowledge through diplomas, certifications and postgraduate studies.
5. Participate collaboratively in work teams for the fulfillment of objectives and goals, always conducting themselves in an ethical and professional way in making relevant decisions.

▶ PERFORMANCE SCENARIOS

- Public and private companies engaged in the manufacture of automotive parts and components.
- Public and private companies dedicated to the manufacture of household appliances.
- Public and private companies dedicated to the reengineering of products.
- Public and private companies engaged in the manufacture of machinery and heavy equipment.
- Public and private consulting and advisory companies.
- Public and private companies engaged in the smelting of parts.
- Automotive concession companies.
- Their own company.

▶ PROFESSIONAL OCCUPATIONS

- Head of Quality Control
- Materials synthesis technician
- Materials analysis technician
- Research Laboratory Assistant
- Innovation Lab Assistant
- Process technician
- Auxiliary in the scaling of materials
- Assistant Professor-Researcher
- Microscopy technician
- Metallography technician
- X-ray diffraction technician