

Course Syllabi

1. PPFS-00063 PROFESSIONAL PRACTICUM I

2. 96 credits hours.

3. Specific Course Information

- a. The PVS is an interactive process, where the University plans socially to intervene in the solution of the problems of the community, generating additionally practical and human knowledge in the vocational training in order to benefit traditionally excluded sectors, supposes an exchange of knowledge that feedback academic work and is executed in a context of intercultural dialogue through the execution of programs and projects of service to the community, coheren • Selects the results with the learning results and the exit profile of the career. As for the fundamental content, it will be translated through the pre-professional application of models: humanist, creative thinking, constructive criticism incorporating diagnostic tools, planning, execution, social reports, methods of analysis of intervention communicative skills, as well as the research that is deployed through social projects. It will contribute to the exit profile in: • Select the best methods, processes, procedures, in an integral way for the well-being of the human factor, based on the legal regulations in force in the country. • It proposes alternatives to solve problems, through the use of information derived from indicators of production management. • It integrates the regulations related to occupational safety and health, environment and labor legislation with procedures and well-being to generate an environment conducive to work for the human factor. or to the RDA'S ABET: RA2. Design: Applies engineering design to produce solutions that meet specific needs taking into account public health, safety and well-being, as well as global, cultural, social, environmental and economic factors. RA3. Communication: Communicates professional topics to a range of effective audiences. RA4. Ethics and responsibility. RA5. Teamwork. RA7. Autonomous learning

b. Prerequisites:

- INDU-00009 PROCESS ENGINEERING
- MAES-00091 STATISTICAL INFERENCE TECHNIQUES

4. Learning Objectives of the Course

- a. To strengthen the competences, knowledge, skills, attitudes and skills oriented to the analysis of the problem of Industrial Engineering and to strengthen the capacities to generate strategies to provide solutions.
- To diagnose a problem to intervene through the project of community service in the field of the career of Industrial Engineering.
 - To develop a planning of the activities that will be developed within the framework of the project of linkage to give solution to the problem ica identified in the community.
 - To implement the strategies and activities planned to solve the problem of the intervention project.
 - To present to the beneficiary community the results achieved and knowledge generated from the intervention of the linkage project.
- b. Learning Outcomes
- It proposes alternatives to problem solving, using information from production management indicators.
 - It integrates occupational safety and health regulations, environment and labour legislation with procedures and welfare to create an enabling working environment for the human factor.

- Selects the best methods, processes, procedures, in a comprehensive way for the well-being of the human factor, based on the legal regulations in force in the country
- It identifies the development problem where an intervention project will arise.
- It identifies the impacts that project implementation would generate.
- Recommends the best procedure for optimising a production system.

5. Course Topics

- Diagnosis problems to intervene in the beneficial community
- Planning of the intervention
- Development of activities and strategies to address identified issues
- Delivery of the results of the intervention project