

## **UNAD: Cooperation sought between Finland and Colombia**

Cooperation with institutions of higher education and companies in areas of engineering, agriculture, business processes, social processes and languages

### **Languages.**

Foreign-exchange in language and cultural immersion of students, teachers and workers for learning of a second language. (English-Spanish, Spanish-English). This exchange includes host families in both countries.

### **Economic, administrative and accounting processes**

- Immersion of students, teachers and businessmen Colombia-Finland to learn about advances and technological innovation, infrastructure, production processes, marketing, customer service, marketing, among other processes.
- Implement sustainable tourism projects,
- Implement tourism in bird watching
- How to design an entrepreneurship and entrepreneurship simulators in entrepreneurial initiative and business ideas for students.
- Professional Project Manager certification processes with PMI  
Software development for business administration students-  
Business Laboratory
- Training in design, formulation and evaluation of projects
- Training in curriculum design of doctoral programs.
- Take students to do business practices in companies in Finland.
- Training in technological innovation, financial, administrative, marketing, human management in companies.
- Successful business experiences in Finland
- Immersion into companies that within their areas have a PMO project office and address the topics of: Manage of scarce resources (time, money, staff, etc), communication, Manage of conflicts, comply with the requirements, internal or contractual, achieve business objectives (costs, margin, etc.), Handle the uncertainty and risk adequately, make decisions in pressure and risk environments, foresee the future and preventively to manage the deviations, generate professional criterion that allows to have an integrative capacity of all the functional groups and of all the key participants (Stakeholder), help to understand the learned lessons, have a global vision of the project and its impact on the business.

### **Technology and teaching in education**

- Training in techno-pedagogical innovation for the design of virtual academic courses
- Software development for the creation and production of tailor-made content for UNAD
- Develop quality processes in the accreditation and certification of academic courses
- Collaboration in virtual teaching models and methodologies in the undergraduate and prostrate programs.

## **Other areas of cooperation**

### **Areas of engineering**

- Specific collaboration in the discipline area of operations and manufacturing, production planning and control, free software for simulating industrial processes, tools of quality management, statistical control of processes and strategies in the formulation and evaluation of engineering projects
  - Transfer and accompaniment in the formulation of programs at the level of master's and doctorate for the area of Industrial engineering that supports the CDIO initiative and concurrent Engineering
- Mobile programming by the high rise of the APP
- Development of learning software for educational inclusion plans
- Bioremediation of soils contaminated by the oil industry
- Water analysis with microorganism's sensitive to changes of PH
- Bioremediation with wild plants of contaminated soils
- Use of alternative energies for Farms.  
Reuse of tire debris for ornamental and decorations
- Analysis of environmental impacts on the ecosystem
- Modeling of watersheds to predict water levels
- Explanatory models of organic compounds
- Development of software to carry out online labs
- Modeling of Food manufacturing processes
- Software development to explain the properties of organic substances based on structural units

### **Agricultural areas**

- Alternative energies from the biomass
- Recycling and processing of solid waste
- Hydroponic crops in urban environments
- Technology in productive process, to improve quality systems.
- Aquaculture production technology, water quality, nutritional management, research in production systems, cold chain management, access to new markets, training in financial management and project resources.
- Support in formulation of projects that apply for economic support of the international with the aim to be developed in the agricultural chains of the country as an example the pineapple and the banana. Training in agriculture of precision.

### **Social Area processes**

- Specific consultancy in qualitative research; formulation and design of social projects
- Intervention processes with demobilized population
- Approach of young people in the condition of unwanted pregnancy

### **Other Areas**

- Software development for monitoring students in desertion
- Implement techniques for online learning
- Software development for adaptation and learning to students with difficulties in managing computer and Office Tools.