**INSTITUTO TECNOLÓGICO DE ESTUDIOS SUPERIORES DE MONTERREY**

**CAMPUS ESTADO DE MÉXICO**



**GI5000 Metodología de Investigación e Innovación**

**(Research Methodology and Innovation)**

Dr. Raúl Monroy B./Dr. Francisco J. Cantú O.

**Assessed Exercise # 03**

**Research and Innovation**

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**Date of assignment: February 18, 2019**

**Due date: March 12, 2019, 11:59PM**

**Articles to Read and Questions to Answer**

## [1] **From the reading of article “Lancho-Barrantes, B.S. & Cantú-Ortiz, F.J. (2019). What is the situation of science in Mexico with respect to strategic countries and how could it be improved?**

## [2] **From the reading of article “Ceballos, H. G., Garza, S.E., & Cantu-Ortiz, F. J. (2018)”. What strategy can be defined for establishing research groups within an organization?**

## [3] **From the reading of article “Cantu-Ortiz, F. J., Galeano, N., Mora-Castro, P., & Fangmeyer, J. (2017)”, What is the importance of developing an entrepreneurial mentality? Are you thinking about becoming an entrepreneur now or after graduation, if you are not an entrepreneur already?**

## [4] **From the reading of article “Ceballos, H. G., Fangmeyer, J., Galeano, N., Juarez, E., & Cantu-Ortiz, F. J. (2017)”, How important is collaborative work? What are the disadvantages of collaborative work?**

## [5] **From the reading of article “Cantú-Ortiz, F. J. (2015)”, What role eco-innovation systems play for the socioeconomic development of an institution and its surrounding region?**

## [6] **From the reading of article “Cantú, F. J., & Ceballos, H. G. (2010)”, How important it is to deploy an integrated information system to manage and communicate internally progress on institution’s research and development? How important is the use of a Data Science Strategy to promote institution’s competitiveness?**

## [7] **From the reading of article “Cantu, F. J., Bustani, A., Molina, A., & Moreira, H. (2009)”, How important is for a knowledge-based organization to define and deploy a research and innovation strategy to remain competitive?**

## **Resources**

[1] B. S. Lancho-Barrantes and F. J. Cantú-Ortiz, “Science in Mexico: a bibliometric analysis,” *Scientometrics*, vol. 118, no. 2, pp. 499–517, 2019.

[2] H. G. Ceballos, S. E. Garza, and F. J. Cantu, “Factors influencing the formation of intra-institutional formal research groups: group prediction from collaboration, organisational, and topical networks,” *Scientometrics*, vol. 114, no. 1, pp. 181–216, 2018.

[3] F. J. Cantu-Ortiz, N. Galeano, P. Mora-Castro, and J. Fangmeyer, “Spreading academic entrepreneurship: Made in Mexico,” *Bus. Horiz.*, vol. 60, no. 4, pp. 541–550, 2017.

[4] H. G. Ceballos, J. Fangmeyer, N. Galeano, E. Juarez, and F. J. Cantu-Ortiz, “Impelling research productivity and impact through collaboration: A scientometric case study of knowledge management,” *Knowl. Manag. Res. Pract.*, vol. 15, no. 3, pp. 346–355, 2017.

[5] F. J. Cantú-Ortiz, “A Research and Innovation Ecosystem Model for Private Universities,” in *Private Universities in Latin America*, New York: Palgrave Macmillan US, 2015, pp. 109–130.

[6] F. J. Cantú and H. G. Ceballos, “A multiagent knowledge and information network approach for managing research assets,” *Expert Syst. Appl.*, vol. 37, no. 7, pp. 5272–5284, 2010.

[7] F. J. Cantú, A. Bustani, A. Molina, and H. Moreira, “A knowledge-based development model: The research chair strategy,” *J. Knowl. Manag.*, vol. 13, no. 1, pp. 154–170, 2009.

**Evidence of Google Scholar and ResearchGate**

Imagen que contiene captura de pantalla, interior

Descripción generada automáticamenteImagen que contiene captura de pantalla

Descripción generada automáticamente

**Reflections on Steve Job’s Legacy**

Lessons learned for your own professional, family and personal life. Was Jobs a religious person? Is Christianity an answer to existential dilemmas posed by Jobs?

**Video Resources**

Badabun, Estas fueron las últimas palabras de Steve Jobs minutos antes de morir. 2017.

N. Flores, Steve Jobs Discurso en Stanford Sub Español HD YouTube. 2012.

E. Terán, [NatGeo]-Mentes Brillantes. Steve Jobs vs Bill Gates. 2015.