Engineering Management I

Academic Year: (2019/2020)

Department assigned to the subject: Mechanical Engineering Department Coordinating teacher: RIVERA RIQUELME, FRANCISCO ANTON

Type: Electives ECTS Credits : 6.0

Year : Semester :

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

No prerequisites.

OBJECTIVES

- Identify the need of Manufacturing Planning an Control Systems and know their characteristics.
- Differentiate the adequacy of such systems and tools to different types of business.

DESCRIPTION OF CONTENTS: PROGRAMME

Manufacturing Planning an Control systems (MPC) Aggregate Production Planning Dependent Demand Inventory Systems Material Requirements Planning (MRP) Capacity Management Master Production Schedule (MPS) Shop Floor Control Theory of Constraints (TOC) Push, Pull and CONWIP Systems

LEARNING ACTIVITIES AND METHODOLOGY

Lectures, exercises, practical sessions, cases and assignments to be carried out by the students and discussed during the sessions, complementary readings.

ASSESSMENT SYSTEM

60% Final written exam

40 % Continuous evaluation. One partial exam will be held. Attendance to the practical sessions.

% end-of-term-examination:	60
% of continuous assessment (assigments, laboratory, practicals):	40

BASIC BIBLIOGRAPHY

- Vollmann, T.E.; Berry, W.L.; Whybark, D.C. Sistemas de planificación y control de la fabricación, Irwin, 1995

ADDITIONAL BIBLIOGRAPHY

- Chase, R.B.; Jacobs, F.R.; Aquilano, N.J. Administración de operaciones: producción y cadena de suministros, McGraw-Hill, 2009

- Schroeder, R.G. Administración de operaciones: conceptos y casos contemporáneos, McGraw-Hill, 2011

- Silver, E.A.; Pyke, D.F.; Peterson, R. Inventory management and production planning and scheduling, John Wiley and Sons, 1998

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