

Academic Year: (2022 / 2023)

Review date: 18-05-2022

Department assigned to the subject: Mechanical Engineering Department

Coordinating teacher: MUÑOZ SANCHEZ, ANA

Type: Electives ECTS Credits : 6.0

Year : 4 Semester :

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Production and Manufacturing Systems
Manufacturing and Machine Technology

OBJECTIVES

Previous knowledge acquired in previous topics is applied to CAM (Computer Aided Manufacturing)
CNC programming
Learning concepts related to CIM (computer integrated manufacturing) and automation
Using commercial CAD/CAE/CAM codes for practical manufacturing problems

DESCRIPTION OF CONTENTS: PROGRAMME

Introduction

Machining processes optimization

Manufacturing oriented design
Cutting tool selection
Tooling

CNC machine-tool programming

Commercial codes CAD/CAE/CAM

Resolution of manufacturing practical problem

LEARNING ACTIVITIES AND METHODOLOGY

Theoretical and practical lectures.
Laboratory.

ASSESSMENT SYSTEM

LA NOTA DE LA EVALUACIÓN CONTINUA SE OBTENDRÁ:

- Nota de las prácticas (20%).
- Nota caso práctico realizado durante el curso (50%).
- Nota del examen parcial (30%).

Asimismo, podrá realizarse el examen final en ambas convocatorias. La calificación final de la asignatura se obtendrá en base al siguiente sistema:

CONVOCATORIA ORDINARIA:

Opción 1: Evaluación sin examen final (nota de evaluac. continua = 100% nota).

Opción 2: Evaluación realizando el examen final. La nota será la máxima de las 2 siguientes:

- Nota examen final (60%) y nota de la evaluación continua (40%).
- Nota de la evaluación continua (100%).

CONVOCATORIA EXTRAORDINARIA:

La nota será la máxima de las 2 siguientes:

- Nota examen final (60%) y nota de la evaluación continua (40%).
- Nota del examen final (100%).

% end-of-term-examination:	0
% of continuous assessment (assignments, laboratory, practicals...):	100

BASIC BIBLIOGRAPHY

- REGH, A.R. Computer-Integrated Manufacturing, Prentice Hall, 2001
- SINGH, N. Systems Approach to Computer-Integrated Design and Manufacturing, John Wiley & Sons, 1996
- Serope Kalpakjian Manufacturing Engineering And Technology, Addison-Wesley , 2001