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| COURSE: DIGITAL ELECTRONICS | | |
| GRADE: INDUSTRIAL ELECTRONICS AND AUTOMATION ENGINEERING | YEAR: 3º | TERM: 1º |

| WEEKLY PLANNING | | | | | | | | |
|-----------------|---------|--|-------------------|-----------------|--|--|------------------------------|-----------------------------------|
| WEEK | SESSION | DESCRIPTION | TEACHING (mark X) | | SPECIAL ROOM FOR SESSION (Computer classroom, audio-visual classroom)) | WEEKLY PROGRAMMING FOR STUDENT | | |
| | | | L E C T U R E S | S E M I N A R S | | DESCRIPTION | CLASS HOURS (1,66=50+50 min) | HOMEWORK HOURS (Max. Estim. 6,5h) |
| 1 | 1 | Presentation. Introduction and basic concepts | x | | | Estudio de los temas desarrollados | 1,67 | 5 |
| | 2 | Combinational circuits: functions and logic gates | | x | | Estudio de los temas desarrollados | 1,67 | |
| 2 | 3 | Combinational circuits: arithmetic circuits | x | | | Estudio de los temas desarrollados | 1,67 | 5 |
| | 4 | Combinational circuits: exercises | | x | | Ejercicios | 1,67 | |
| 3 | 5 | Sequential circuits: flip-flops, registers and counters | x | | | Estudio de los temas desarrollados | 1,67 | 6 |
| | 6 | Sequential circuits: exercises | | x | | Ejercicios | 1,67 | |
| 4 | 7 | Sequential circuits: finite state machines, memories | x | | | Estudio de los temas desarrollados. Ejercicios | 1,67 | 6 |
| | 8 | Simulation: tesbenches | | x | Aula Inf. | Ejercicios | 1,67 | |
| 5 | 9 | Exercises | x | | | Ejercicios. Preparación de la Práctica 1 | 1,67 | 7 |
| | 10 | Practice session 1 | | x | Lab. | Preparación de la Práctica 1 | 2,50 | |
| 6 | 11 | Digital circuit synthesis and implementation | x | | | Estudio de los temas desarrollados | 1,67 | 6 |
| | 12 | Exercises | | | | Ejercicios | 1,67 | |
| 7 | 13 | Exercises | x | | | Ejercicios Preparación de la práctica 2 | 1,67 | 7 |
| | 14 | Practice session 2 | | x | Lab. | Preparación de la práctica 2 | 2,50 | |
| 8 | 15 | Exam 1 | x | | | Preparación del Control 1 | 1,67 | 6 |
| | 16 | Digital systems: introduction to microprocessors | | x | | Estudio de los temas desarrollados | 1,67 | |
| 9 | 17 | Study of a microcontroller. Architecture and instruction set | x | | | Estudio de los temas desarrollados | 1,67 | 6 |

WEEKLY PLANNING

| WEEK | SESSION | DESCRIPTION | TEACHING (mark X) | | SPECIAL ROOM FOR SESSION (Computer classroom, audio-visual classroom)) | WEEKLY PROGRAMMING FOR STUDENT | | |
|---|---------|--|-------------------|-----------------|--|--|------------------------------|-----------------------------------|
| | | | L E C T U R E S | S E M I N A R S | | DESCRIPTION | CLASS HOURS (1,66=50+50 min) | HOMEWORK HOURS (Max. Estim. 6,5h) |
| | | | | | | | | |
| 9 | 18 | Exercises | | x | | Ejercicios | 1,67 | 0 |
| 10 | 19 | Input/output peripherals. Timers | x | | | Estudio de los temas desarrollados | 1,67 | 6 |
| | 20 | Exercises | | x | | Ejercicios | 1,67 | |
| 11 | 21 | Interrupts. Application examples and exercises | x | | | Estudio de los temas desarrollados. Preparación de | 1,67 | 7 |
| | 22 | Practice session 3 | | x | Lab. | Preparación de la Práctica 3 | 2,50 | |
| 12 | 23 | Exercises | x | | | Ejercicios | 1,67 | 6 |
| | 24 | Exercises | | x | | Ejercicios | 1,67 | |
| 13 | 25 | Exercises | x | | | Ejercicios. Preparación de la Práctica 4 | 1,67 | 7 |
| | 26 | Practice session 4 | | x | Lab. | Preparación de la Práctica 4 | 2,50 | |
| 14 | 27 | Exam 2 | x | | | Preparación del Control 2 | 1,67 | 5 |
| | 28 | | | | | | | |
| | 29 | | | | | | | |
| Subtotal 1 | | | | | | | 48,33 | 85,00 |
| Total 1 (Hours of class plus student homework) | | | | | | | 133,33 | |
| 15 | | Tutorials, handing in | | | | | 3,60 | - |
| 16 | | Assessment | | | | | 4,00 | 10,00 |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| Subtotal 2 | | | | | | | 7,60 | 10,00 |
| Total 2 (Hours of class plus student homework) | | | | | | | 17,60 | |
| Total (Maximum 160 hours) | | | | | | | 150,93 | |