

MASTER'S DEGREE IN INDUSTRIAL ENGINEERING

Industrial Facilities II

Session	Contents
1	1. Introduction: Three-phase distribution systems.
2	2. Medium voltage switchgear. Transformation centers.
3	3. Reactive power compensation. Practical exercises.
4	4. Liaison facilities.
5	Indoor facilities
6	Calculation of sections (medium voltage networks with branches, branched and ring)
7	5. Low voltage switchgear: Protections (switches, circuit breakers, differentials).
8	Protection coordination exercises and calculation of short circuits in medium voltage networks
9	6. Electrical pipes. Grounding facilities in buildings. Protection against indirect contacts, differentials.
10	Partial test
11	7. Light sources: Incandescent and discharge lamps. Luminaires and associated equipment. Photometric characteristics Rules and regulations in lighting technology. Special lighting
12	Lighting projects. Practical exercises.
13	8. Installation automation: topology and programming of the EIB Bus. Applications Control lighting, temperature, etc. Building and security facilities monitoring.
14	9. Smart homes and buildings. Telecommunications facilities: television, telephony, data networks, AMR. 10. Inspection and certification of electrical and electronic installations in buildings.