

COURSE: TECHNOLOGY OF MATERIALS

DEGREE: Bachelor in Mechanical Engineering

YEAR: 3rd

TERM: 2

WEEKLY PLANNING

| WEEK | SESSION | DESCRIPTION | TEACHING (mark X) | | SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room) | 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. 3,25h) |
| | | | | | | | | |
| 1 | 1 | Introduction + Previous knowledges required | X | | | Work on the topic taught | 1,66 | 3,25 |
| 2 | 2 | 1. Casting fundamentals. Microstructure of cast metals | | X | | Work on the topic taught | 1,66 | 3,25 |
| 3 | 3 | 2. Plastic deformation of metals: fundamentals | X | | | Work on the topic taught | 1,66 | 3,25 |
| 4 | 4 | 3. Metallurgy of welding. NDT | | X | | Work on the topic taught | 1,66 | 3,25 |
| 5 | 5 | 4. Powder Technology | X | | | Work on the topic taught | 1,66 | 3,25 |
| 6 | 6 | TEST 1. Work in groups | | X | | Assessment test. First presentation of work in groups (cards) | 1,66 | 3,25 |
| 7 | 7 | Forming of Polymers. TEST 1 | X | | | Work on the topic taught | 1,66 | 3,25 |
| 8 | 8 | Materials performance: Fracture + Exercises | | X | | Work on the topic taught | 1,66 | 3,25 |
| 9 | 9 | Materials performance: Fatigue + Exercises | X | | | Work on the topic taught | 1,66 | 3,25 |
| 10 | 10 | Materials performance: Creep + Exercises | | X | | Work on the topic taught | 1,66 | 3,25 |
| 11 | 11 | Materials performance: Corrosion & Wear | X | | | Work on the topic taught | 1,66 | 3,25 |
| 12 | 12 | Surface treatments. TEST 2 | | X | | Assessment test. Work on the topic taught | 1,66 | 3,25 |
| 13 | 13 | Lab session 1 | | | 1.0.A01 | Reading guideline document. Cooperative work on the practice | 1,66 | 3,25 |

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| | | | L E C T U R E S | S E M I N A R S | | DESCRIPTION | CLASS HOURS <i>(1,66=50+50 min)</i> | HOMEWORK HOURS <i>(Max. Estim. 3,25h)</i> |
| | | | | | | | | |
| 14 | 14 | Lab session 2 | | | 1.0.A01 | Reading guideline document. Cooperative work on the practice | 1,66 | 3,25 |
| | 15 | Project ' Final dissertation | | X | | Presentation of work in groups | 1,66 | 3,25 |
| Subtotal 1 | | | | | | | 25 | 49 |
| Total 1 (Hours of class plus student homework) | | | | | | | 74 | |
| 15 | | Tutorials, handing in, etc | | | | | 1,8 | - |
| 16 | | Assessment | | | | | 4 | 4 |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| Subtotal 2 | | | | | | | 6 | 4 |
| Total 2 (Hours of class plus student homework) | | | | | | | 10 | |
| TOTAL (<i>Maximun 83 horas</i>) | | | | | | | 83 | |