

| | | |
|--|------------------|------------------|
| COURSE: MECHANICS OF STRUCTURES | | |
| DEGREE: BACHELOR IN INDUSTRIAL ELECTRONICS AND AUTOMATION ENGINEERING | YEAR: 2nd | TERM: 1st |

| 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. 6,5h) |
| 1 | 1 | TOPIC 1. FORCE SYSTEM AND EQUILIBRIUM | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about force systems and equilibrium | 1.66 | 6.5 |
| | 2 | Exercises related to session 1 | | X | NO | Exercises and questions related to topic 1 | 1.66 | |
| 2 | 3 | TOPIC 2. REACTION FORCES | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about reaction forces. | 1.66 | 6.5 |
| | 4 | Exercises related to topic 2 | | X | NO | Exercises and questions related to topic 2 | 1.66 | |
| 3 | 5 | TOPIC 3. MASS GEOMETRY | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about mass geometry | 1.66 | 6.5 |
| | 6 | Exercises related to topic 3 | | X | NO | Exercises and questions related to topic 3 | 1.66 | |
| 4 | 7 | TOPIC 4. INTERNAL FORCES (I) | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about internal forces | 1.66 | 6.5 |
| | 8 | Exercises related to topic 4 | | X | NO | Exercises and questions related to topic 4 | 1.66 | |

| 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. 6,5h) |
| 5 | 9 | TOPIC 5. INTERNAL FORCES (II) | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about internal forces | 1.66 | 6.5 |
| | 10 | LABORATORY 1: INTERNAL FORCES DIAGRAMS | | X | YES | Lab work 1 | 1.66 | |
| 6 | 11 | TOPIC 6. INTERNAL FORCES (II) | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about internal forces | 1.66 | 6.5 |
| | 12 | Exercises related to topics 5 and 6 | | X | NO | Exercises and questions related to topics 5 and 6 | 1.66 | |
| 7 | 13 | TOPIC 7. TRUSS STRUCTURES (I) | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about truss structures | 1.66 | 6.5 |
| | 14 | Exercises related to topic 7 (I) | | X | NO | Exercises and questions related to topic 7 | 1.66 | |
| 8 | 15 | ASSESSMENT EXAM | X | | NO | Continuous assessment exam (topic 1 -6) | 1.66 | 6.5 |
| | 16 | Exercises related to topic 7 (II) | | X | NO | Exercises and questions related to topic 7 | 1.66 | |
| 9 | 17 | TOPIC 8. CABLE STRUCTURES | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about cable structures | 1.66 | 6.5 |
| | 18 | Exercises related to topic 8 | | X | NO | Exercises and questions related to topic 8 | 1.66 | |
| 10 | 19 | TOPIC 9. DEFORMABLE BODY | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about deformable body | 1.66 | 6.5 |
| | 20 | LABORATORY 2: TENSILE TEST | | X | YES | Lab work 2 | 1.66 | |
| 11 | 21 | TOPIC 10. CROSS-SECTION STRENGTH (I) | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about cross-section strength | 1.66 | 6.5 |
| | 22 | Exercises related to topic 9 | | X | NO | Exercises and questions related to topic 9 | 1.66 | |

| 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. 6,5h) |
| 12 | 23 | TOPIC 11. CROSS-SECTION STRENGTH (II) | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about cross-section strength | 1.66 | 6.5 |
| | 24 | Exercises related to topic 10 and 11 | | X | NO | Exercises and questions related to topic 10 and 11 | 1.66 | |
| 13 | 25 | TOPIC 12. CROSS-SECTION STRENGTH (III) | X | | NO | Personal work: basic knowledge acquisition and fundamental concepts understanding about cross-section strength | 1.66 | 6.5 |
| | 26 | LABORATORY 3: FLEXURAL TEST ON BEAMS | | X | YES | Lab work 3 | 1.66 | |
| 14 | 27 | Exercises related to topic 10 and 11 | X | | NO | Exercises and questions related to topic 10 and 11 | 1.66 | 6.5 |
| | 28 | LABORATORY 4: SPAGUETTI STRUCTURE | | X | YES | Lab work 4 | 1.66 | |
| | 29 | REVIEW OF THE SUBJECT | X | | NO | Solve continuous assessment | 1.66 | 3.25 |
| Subtotal 1 | | | | | | | 48 | 94 |
| Total 1 (Hours of class plus student homework) | | | | | | | 142 | |
| 15 | | Tutorials, handing in, etc | | | | | 3.6 | - |
| 16 | 17 | Assessment | | | | | 4 | 10 |
| 18 | | | | | | | | |
| Subtotal 2 | | | | | | | 8 | 10 |
| Total 2 (Hours of class plus student homework) | | | | | | | 18 | |
| TOTAL (Maximun 160 horas) | | | | | | | 160 | |

