

UNIVERSIDAD TÉCNICA FEDERICO SANTA MARÍA

INGENIERIA DE EJECUCIÓN MECANICA DE PROCESOS Y MANTENIMIENTO INDUSTRIAL

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| Sigla Asignatura: | INT000 | Sigla Carrera: | IMPMI | Hr. Teóricas semana: | 4 |
| Asignatura : | INGLES TECNICO | | | Hr. Prácticas semana: | |
| Requisito(s): | | | | Hr. Total semana: | 4 |
| Créditos | 3 | | | | |
| OBJETIVO(s) | Al aprobar la asignatura, el alumno será capaz de: | | | | |
| 1. Interpretar las ideas principales contenidas en textos, folletos, catálogos, manuales, instructivos, normas, etc. entendida como una comprensión de texto rápida y esencial. | | | | | |
| CONTENIDOS: | | | | | |
| 1. Bench tools. | | | | | |
| <ul style="list-style-type: none">• Wrenches.• Hand tools: screwdrivers, hammers, punches, chisels, hand reamers, hand hacksaws, etc.• Taps and threading dies.• Layout tools: surface plate, angle plate, V blocks, parallels, combination set, etc.• The bench vise. | | | | | |
| 2. Measuring tools. | | | | | |
| <ul style="list-style-type: none">• Line measurement: steel rules, depth gages, dividers, inside and outside calipers, etc.• Fixed gages: surface plates, steel squares, feeler gage, wire and drill gages, radius gages, etc.• Angular measurement: angle gages, protractors, center gage.• Micrometers and verniers: inside and outside micrometers, depth micrometers.• Vernier calipers: vernier height gage, vernier depth gage, vernier protractor, telescoping and small hole gages. | | | | | |
| 3. Drill press. Drill Press Work. Tipos de líneas usadas en dibujo. | | | | | |
| <ul style="list-style-type: none">• Layout work.• Description of drill press and accessories.• Holding devices for drill press.• Twist drills.• Counterbore and countersinks.• Reaming. | | | | | |
| 4. Lathe. Running a lathe. | | | | | |
| <ul style="list-style-type: none">• Machine parts.• Accessories: chucks, driving plates, draw in-collet attachment, taper attachment, steady rest, etc.• Holding devices: lathe dogs, collets, mandrels, angle plates, etc.• Thechnical data.• Straight turning.• Turning between centers.• Knurling and boring. | | | | | |
| 5. Cutting tools. | | | | | |
| <ul style="list-style-type: none">• Tool bits and boring tools.• Tool holders and boring bars.• Cutting-off tools.• Drills and center drills.• Threads and thread cutting.• Reamers. | | | | | |
| 6. Measuring Tools. | | | | | |
| <ul style="list-style-type: none">• Micrometers: Screw thread, paper gage, heads for, inside type, etc.• Center gages.• Screw pitch gages.• Dial indicators.• Dial bore gages.• Gage block sets. | | | | | |

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| <p>7.</p> <p>8.</p> | <ul style="list-style-type: none"> • Optical flats. • Granite surface plates. • Measuring rods. • Plug gages and ring gages <p>Materials and Its Properties.</p> <ul style="list-style-type: none"> • Ferrous metals: Iron and Steel, Plain Carbon and Low Alloy Steels. • Non-Ferrous metals: Aluminum and Aluminum Alloys, Cooper and Cooper Alloys, Brass, Bronze, Magnesium, Tin, Titanium, Zinc, Die Cast Metals. • Shop tests for identifying steels: Visual observation, Magnet Test, Hardness Test, Scratch Test, File Test, Chemical Test, Spark Testing, Machinability Test. <p>Blue Print Reading.</p> <ul style="list-style-type: none"> • Lines. • Views. • Dimensions and notes. • Sections. • Shop sketching. |
| | <p>EVALUACIÓN:</p> <ul style="list-style-type: none"> • 4 controles parciales como mínimo, con igual ponderación. • Evaluación final, promedio aritmético de las notas parciales. |
| | <p>BIBLIOGRAFÍA:</p> <ol style="list-style-type: none"> 1. Department of Education IBM Corporation. Shop Terms 2. Delmar Publishers Inc. Drill Presswork 3. Delmar Publishers Inc. Bench Work 4. FREDERIC SWING CRISPIN. Dictionary of Technical Terms 5. C.A. FELKER. Shop Mathematics. 6. JOHN R. PHELPS. Practical Shop Mathematics. 7. CATALOGS: Starrett, Mitutoyo, Brown and Sharpe, Scherr Tumico, Lufkin. |