

UNIVERSIDAD TÉCNICA FEDERICO SANTA MARÍA
 INGENIERIA DE EJECUCIÓN MECANICA DE PROCESOS Y MANTENIMIENTO INDUSTRIAL

Sigla Asignatura: INT000 Sigla Carrera: IMPMI Asignatura : INGLES TECNICO Requisito(s): Créditos 3	Hr. Teóricas semana: 4 Hr. Prácticas semana: Hr. Total semana: 4
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. • Technical 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. 	

- Optical flats.
- Granite surface plates.
- Measuring rods.
- Plug gages and ring gages

7. Materials and Its Properties.

- 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.

8. Blue Print Reading.

- Lines.
- Views.
- Dimensions and notes.
- Sections.
- Shop sketching.

EVALUACIÓN:

- 4 controles parciales como mínimo, con igual ponderación.
- Evaluación final, promedio aritmético de las notas parciales.

BIBLIOGRAFÍA:

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.