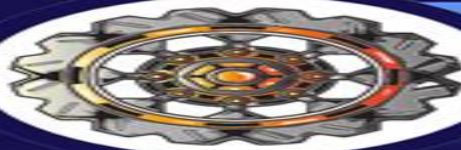


ENGINEERING METALLURGY SYLLABUS



ALLOYS

Constitution of alloys - Solid solutions, substitutional and interstitial - phase diagrams, isomorphous, eutectic, eutectoid, peritectic, and peritectoid reactions, Iron - carbon equilibrium diagram, Classification of steel and cast iron microstructure, properties and application.

HEAT TREATMENT

Definition - Full annealing, stress relief, recrystallization and spheroidising - normalising, hardening, and Tempering of steel, Isothermal transformation diagrams - cooling curves superimposed on, I-T diagram CCR - Hardenability, Jominy end quench test - Austempering, martempering - case hardening, carburizing, Nitriding, cyaniding, carbonitriding - Flame and Induction hardening - Vacuum and Plasma hardening.



FERROUS

Effect of alloying additions on steel- α and ρ stabilizers- stainless and tool steels - HSLA, Maraging steels - Cast Iron - Grey, white, malleable, spheroidal - alloy cast irons, Copper and copper alloys - Brass, Bronze and Cupronickel - Aluminium and Al-Cu - precipitation strengthening treatment - Bearing alloys, Mg-alloys, Ni-based super alloys and Titanium alloys.

NON-METALLIC

Polymers - types of polymer, commodity, and engineering polymers - Properties and applications of various thermosetting and thermoplastic polymers (PP, PS, PVC, PMMA, PET, PC, PA, ABS, PI, PAI, PPO, PPS, PEEK, PTFE, Polymers - Urea and Phenol formaldehydes) - Engineering Ceramics - Properties and applications of Al_2O_3 , SiC, Si_3N_4 , PSZ, and SiALON - Composites - Classifications - Metal Matrix and FRP - Applications of Composites.



MECHANICAL PROPERTIES

Mechanisms of plastic deformation, slip, and twinning - Types of fracture - Testing of materials under tension, compression, and shear loads - Hardness tests (Brinell, Vickers, and Rockwell), hardness tests, Impact test load, and Charpy, fatigue, and creep failure mechanisms.

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N Noddings



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