

LESSON PLAN-WINTER 2023
SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY, BBSR

| DISCIPLINE- MECH | SEMESTER- 3RD | NAME OF THE FACULTY: ER. Soumya Ranjan Kar |
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| SUBJECT- PRODUCTION TECHNOLOGY | NO. OF CLASS ALLOTTED/ PER WEEK-5 | SEM. From date: 01.08.2023 to 30.11.2023 No. of weeks:19th |
| WEEK | CLASS DAY | THEORY TOPIC |
| 1ST | 1.08.2023 | Manufacturing or production technology, Primary shaping process |
| | 2.08.2023 | Some shaping processes, Machining Process, some Machining processes |
| | 3.08.2023 | Joining processes, Important Joining processes |
| | 4.08.2023 | Alloy, structure of solids |
| | 5.08.2023 | Ionic solids, molecular solids, covalent solids |
| 2ND | 7.08.2023 | BCC, FCC, HCP and Cubic lattice structures |
| | 9.08.2023 | Iron Carbon Equilibrium Diagram, Allotropic Form |
| | 10.08.2023 | Casting Process, Gating System (Runner and Riser) |
| 3RD | 11.08.2023 | Pattern, Pattern materials, Types of Patterns |
| | 14.08.2023 | Singlepiece pattern, Split Pattern, Match Plate Pattern |
| | 16.08.2023 | Cope and Drag Pattern, Gated Pattern, Pattern Allowance |
| 4TH | 18.08.2023 | Core Boxes, Core Print, Types of Core boxes |
| | 21.08.2023 | Moulding Tools and Equipment used in Foundry shop |
| | 22.08.2023 | Moulding Sands, Types of Moulding Sand, Green Sand, Dry Sand |
| | 24.08.2023 | Loam sand, Facing Sand, Backing Sand, System Sand Parting Sand, Core Sand |
| 5TH | 25.08.2023 | Properties Of Moulding sand (Flowability, Porosity, collapsibility) |
| | 28.08.2023 | Casting Defects (Gas porosity, Shrinkage Defects, Mold Material Defects) |
| | 29.08.2023 | Casting Defects Reasons |
| 6TH | 30.08.2023 | Do |
| | 1.09.2023 | Cupola Furnace |
| 7TH | 4.09.2023 | Centrifugal Casting, Die Casting |
| | 5.09.2023 | Revision Class |
| | 8.09.2023 | Welding, Types Of Welding |
| | 9.09.2023 | Gas Welding, Oxy- acetylene Welding |
| 8TH | 11.09.2023 | Welding Equipment |
| | 12.09.2023 | Arc Welding, Resistance welding |
| | 13.09.2023 | Resistance welding, Upset Butt Welding, Flash Butt Welding |
| | 14.09.2023 | Monthly Test |
| | 15.09.2023 | Spot Welding, Seam welding, Projection Welding |
| 9TH | 18.09.2023 | Welding Defects (Undercut, Poor Fusion, Porosity, Slag Inclusions, Cracks) |
| | 21.09.2023 | Rolling, Recrystallization, Normalizing |
| | 22.09.2023 | Hot Rolling and Cold Rolling |
| | 23.09.2023 | Types Of Rolling Mills (Two-High, Three High, Four High, Cluster Rolling) |
| 10TH | 21.09.2023 | Extrusion, Products made by Extrusion process |
| | 25.09.2023 | Direct or Forward Extrusion, Indirect or Backward Extrusion |
| 11TH | 29.09.2023 | Heat treatment processes, Purpose of heat treatment |
| | 3.10.2023 | TIG and MIG welding process, Difference between TIG and MIG |
| 12TH | 5.10.2023 | TIG and MIG welding process, Difference between TIG and MIG |
| | 9.10.2023 | Internal Assessment |
| | 11.10.2023 | Non ferrous metals, Steels, HSS steels |

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| | 13.10.2023 | Steel making processes, Bessemer Process, |
| 13TH | 17.10.2023 | Press work, Blanking, Piercing, and Punching |
| | 19.10.2023 | Types of Die, Simple Die, Compound Die, Progressive die, Combination Die |
| 14TH | 28.10.2023 | Punch, Types of Punches |
| 15TH | 3.11.2023 | Hot Working |
| 16TH | 6.11.2023 | Cold Working Process |
| | 8.11.2023 | Difference between Hot working and Cold working |
| | 10.11.2023 | Jig and Fixture |
| 17TH | 14.11.2023 | Difference between Jig and Fixture |
| | 16.11.2023 | Do |
| | 18.11.2023 | Types of Flame (Natural Flame, Carburising Flame, Oxydizing Flame) |
| 18TH | 22.11.2023 | Types of Flame (Natural Flame, Carburising Flame, Oxydizing Flame) |
| | 24.11.2023 | Smithing, Forging, Forgeability Forging Materials |
| | 25.11.2023 | Different types of furnaces for forging |
| 19TH | 27.11.2023 | Methods of firing Smith's Forge (Open Fire) |
| | 29.11.2023 | Methods of firing Smith's Forge (Stock Fire) |
| | 30.11.2023 | Smith Forging Operations (Upsetting, Drawing Down, Setting Down, Punching) |
| HOD SIGN. | | |

H.O.D

Mechanical Engineering
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