AMPL20 DESIGN & FABRICATION OF MOLDS

UNIT-1 COMPRESSION MOULDS

- 1.1 Positive, semi-positive and flash mould with horizontal and vertical flash,
- 1.2 Arrangement of loading shoes,
- 1.3 Simple two plate and three-plate moulds,
- 1.4 Split moulds

UNIT-2 INJECTION MOULDS

- 2.1 Two plate and three plates types,
- 2.2 Injection, venting, runner and gates,
- 2.3 Calculation of number of cavities,
- 2.4 Hot runner mould.
- 2.5 Computer software's used in designing of molds & mold flow analysis

UNIT-3 TRANSFER MOULDSartered Ingineer India

- 3.1 Principles of integral pot,
- 3.2 Auxiliary ram and separated pot mould,
- 3.3 Calculation of number of cavities.

UNIT-4 Extrusion dies:

- 4.1 Extrusion of simple shapes tubing,
- 4.2 Cable covering and sheeting dies.
- 4.3 Mould fabrication: steels for moulding tools and their treatment include processes used for mould fabrication, finishing processes.
- 4.4 Heating systems for plates and moulds,
- 4.5 Measurement and control of temperature of moulds and dies, simple blow mould.
- 4.6 Introduction to computer aided design and software design aspects for moulds and dies.

Reference Books:

- 1. Plastic mould engineering handbook by Du Boi's and I. Pribble.
- 2. Plastic moulds and Dies Laszlo Sors.
- 3. Injection moulds by Pye.
- 4. Compression and transfer moulding of plastics by J. Butler.