2.9 31509 FUNDAMENTALS OF MOULD DESIGN

UNIT-1 GENERAL MOULD CONSTRUCTION

1.1 Basic Terminology related to mould, Parting line, Core and cavity, Core Plate, Cavity Plate, Runner and gate,

1.2 Sprue, Sprue Bush, Sprue Puller, Guide Pin, Guide Bush, Dowel, Registered ring, Ejector, Ejector Pin, Ejector Plate, Ejector back Plate, Ejector Rod,

1.3 Guide bushes, Guide pillars, Day light Mould cavity and core

1.4 Integer–cavity and core plate

1.5 Insert- cavity and core Bolsters and its types Guide Bushes and Guide Pillars and it's all type Sprue Bushes Registered ting

UNIT-2 FEED SYSTEM

2.1 Sprue Runner

2.2 Runner section

2.3 Runner size,

2.4 Runner layout,

2.5 Runner balancing Gates

2.6 Positioning of gate

2.7 Balance gating

2.8 Types of gate Feed system calculation.

UNIT-3 PARTING SURFACE

3.1 General Introduction

3.2 Flat parting surface

3.3 Non-Flat parting surface and its types

3.4 Venting

UNIT-4 EJECTION SYSTEM

4.1 General Introduction, Ejector grid, Ejector Plate Assembly

4.2 Ejector Plate

4.3 Ejector retaining Plate

4.4 Ejector Rod and Ejector Rod Bush Ejection Techniques

4.5 Pin Ejection

4.6 Stepped Ejector pins

4.7 D-Shaped Ejector Pin

4.8 Sleeve ejection

4.9 Blade ejection

4.10 Valve ejection

4.11 Air Ejection

4.12 Stripper Plate Ejection

4.13 Telescopic length bold actuation

4.14 Chain actuation

4.15 Direct actuation Sprue Puller and Sprue Puller types

UNIT-5 COOLING SYSTEM

5.1 General Introduction
5.2 Cooling Integer type mould plates
5.3 Cooling Integer type cavity plate
5.4 Cooling Integer type core plate

UNIT-6 DESIGNING OF MOULD

6.1 Designing of Hand Injection Mould

Reference Books:

1. Injection Mould Design- R.G.W Pye.
2. Fundamentals of injection mould design- A.B.Glenvil L and Denton
3. Plastics Mould Engineering- Prible and Drebois
4. How to make injection mould-Henser Publication