



### Plastic Product Design Syllabus

#### Topic

1. Benchmarking and Packaging Study:
2. Introduction to Moulding Basics:
3. Automotive Materials Selections
4. Plastic Part Manufacturing Defects and Rectification:
5. TC, DFM, DFS, DFMA, DFA:
6. Plastic Part Costing Calculation:
7. Mold Flow Analysis after Design:
8. Mold Gating and Runner Systems
9. CAE Impacts on Plastic Part after Design
10. Surface Quality Analysis and Feasibility Check
11. B Surface and Features Design Considerations:
12. Locator, Boss, Snaps, Clip Towers, Ribs Design:
13. Tooling Direction and Parting Line
14. Slider and Lifter, Core, and Cavity Concepts:
15. Master Section Development and Complete Part Design:
16. 2D Drafting for Manufacturing Release:
17. ARAI/FMVSS/ECE Safety Standards Introduction
18. Validations for Plastic Parts with International Standards:
19. Schedule for Part Development and Design Procedure:
20. Benchmarking and Packaging Study
21. Post Moulding Processes for Manufacturing Understanding:
22. Live Project Practice and Doubt Sessions
23. Soft Skills for Interview
24. Mock Interview and Selection Process