

## Central Tool Room, Ludhiana

### CERTIFICATE COURSE IN PRODUCT DESIGN AND DEVELOPMENT

**Course Objective:** After completion of the course participants will be able to develop skills in Design & Analysis of Injection Mold

**For Whom:** This course is meant for those people who aspire their career development in field of Product/Tool Design

**Eligibility:** Degree/Diploma in Mechanical/Production

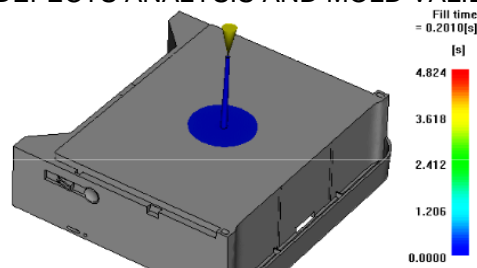
INTAKE :20	DURATION: 4 Hrs./Day {10.00AM TO 2.00 PM} FROM MONDAY TO FRIDAY For 4 Weeks
COURSE FEE:10,000/- (No Tuition Fee shall be charged from SC/ST Candidates as per Govt. of India rule)	

**Starting Date:** 1<sup>st</sup> Week of February, June & December of the calendar year

**VENUE: CENTRAL TOOL ROOM, A-5 Focal Point, Ludhiana**

#### COURSE CONTENTS:

- A. THEORITICAL KNOWLEDGE:
  - PLASTIC MATERIAL
  - INJECTION MOLD DESIGN
- B. CAD CONTENTS:
  - CORE/ CAVITY EXTRACTION USING UNIGRAPHICS/NX SOFTWARE
- C. ANALYSIS TOOL: MOLD-X SOFTWARE
  - FLOW ANALYSIS
  - COOLING ANALYSIS
  - FILLING TIME ANALYSIS
  - DEFECTS ANALYSIS AND MOLD VALIDATION



- D. ONE WEEK LIVE PROJECT:
  - ASSEMBLY OF MOLDS
  - TRYOUTS
  - DEFECTS ANALYSIS
  - WORKABLE REMEDIES