

SYLLABUS :-

Casting: Practice on CAD of gating and risering Experiment to determine the effect of moulding variables in sand moulds To determine the effect of mould additive on the properties of castings To determine the characteristics of base sands. Welding Study of arc characteristics in simulated MMA welding; arc gap-arc voltage relationship; recording of voltage oscillograms and its study. Study of heat flow and temperature distribution in welding Study of characteristics of TIG/MIG welding Ultrasonic/dye penetrant inspection or computer simulation of welding heat flow/analysis of arc-voltage pattern. Forming Experiments on formability test, powder compaction; strip layout for progressive die design