

I Year II Semester
Code: 17CC211

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MODELLING AND ANALYSIS OF MANUFACTURING PROCESS LAB

(Elective-IV)

Students shall carry out the modeling and FE analysis of at least three processes of each category given below.

1. Casting processes - Simulation of Solidification, temperatures, Residual stresses, metallurgical phases etc.
2. Forging processes - Simulation of cold working and hot working processes for extrusion, drawing, rolling, etc.
3. Forming Processes – Simulation of blanking, bending, deep drawing, etc.
4. Welding Processes – Simulation of arc, spot, laser welding, etc