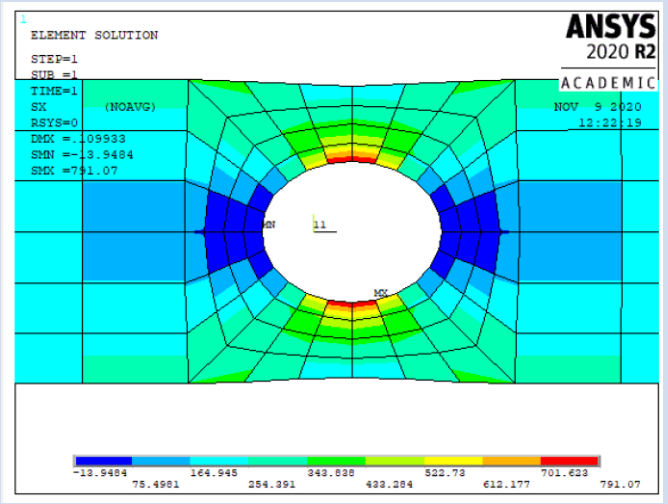
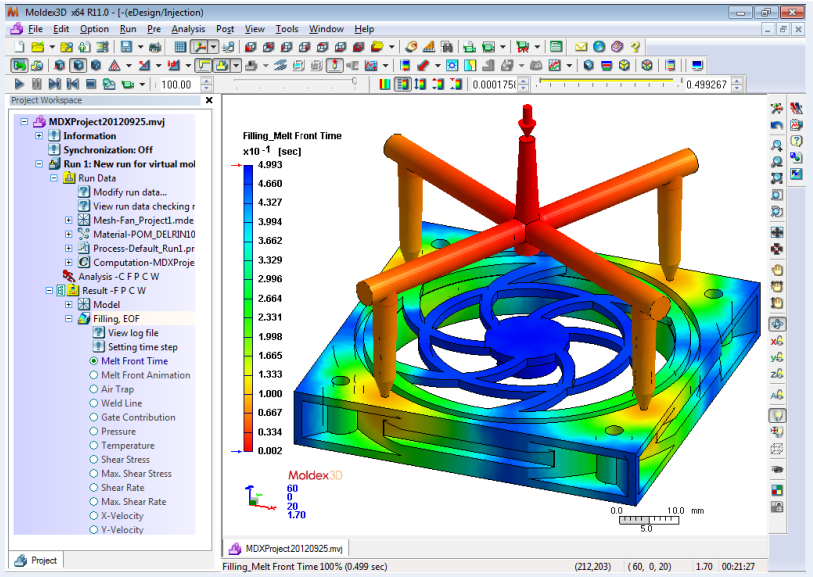
Materials and Production Process Simulation Laboratory (56h)

Activity	Instrument	Student action	
Determination of the tensional state on a perforated plate subjected to tension. (16h)	Ansys Mechanical APDL	Implementation of the numerical model and critical evaluation of the results.	
Injection molding simulation of plastic parts. (20h)	Moldex 3D	Mould design, material selection and evaluation of process parameters	

Activity	Instrument	Student action	
Resolution of stationary and non-linear transient heat exchange problems. (20h)	Salome – Code_Aster	Selection and resolution of two case studies (one steady-state and one non-linear transient), with investigation of the thermal properties of the material and heat transfer coefficients