Activity Instrument **Student action** ANSYS ELEMENT SOLUTION 2020 R2 STEP=1 SUB = ACADEMI TIME= NOV 9 2020 (NOAVG SX **Determination of the** DMX = SMN =-13.9484 Implementation of SMX =791.07 tensional state on a the numerical model perforated plate Ansys Mechanical APDL and critical evaluation subjected to tension. of the results. (16h)-13.9484 164.945 343.838 522.73 75.4981 254.391 433.284 612.177 Run Pre Analysis Post View Tools Window Hel 🛄 🗊 🎜 📜 🚺 🛛 0.000175(-0 499267 MDXProject20120925.mvi Filling Melt Front Time Information x10 -1 [sec] A Run 1: New run for virtual mo 4.993 追 Run Data 4.660 Modify run data **Injection molding** Mould design, 4.327 View run data checking Mesh-Fan_Project1.mde 3.994 Material-POM_DELRIN10 3.662 + R Process-Default Run1.p simulation of plastic material selection 3.329 E C Computation-MDXProje 💐 Analysis - C F P C W 2.996 Moldex 3D Result - FPCW 2.664 🗉 😹 Model 2.331 and evaluation of 🛃 Filling, EOF parts. View log file 1.998 Setting time step 1.665 Melt Front Time (20h) O Melt Front Animatio 1.333 process parameters 🔿 Air Trap 1.000 O Weld Line 0.667 O Gate Contribution O Pressure 0.334 O Temperature 0 002 O Shear Stress O Max. Shear Stress Moldex O Shear Rate O Max. Shear Rate X-Velocity O Y-Velocity MDXProject20120925.mvi A Project Filling_Melt Front Time 100% (0.499 sec) (212,203) (60, 0, 20) 1.70 00:21:27

Materials and Production Process Simulation Laboratory (56h)

Activity	Instrument	Student action	
Resolution of stationary and non- inear transient heat cxchange 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	