






<b>Exercise 8</b>	<b>Coil self-induction</b>		<i>Theory:</i>
Team:	Name:		<i>Experiment:</i>
Date:	Weeks day and hour:	Major, group:	<i>Remarks</i>

 *Self-induction of coil equation: .....(1).*

 *Frequency of electricity grid: .....*

 *Relation between impedance Z, resistance R and reactance X: .....*  
.....

 *One parameter linear regression equation.: .....*  
.....

 *Rule propagation of uncertainties for self- induction L on the basis of Equation (1):*  
.....  
.....  
.....

Fill the Table with measured and calculated coil. In the column headers type units.

	Resistance [ ]	Conductance [ ]	Impedance [ ]	Admittance [ ]	Reactance [ ]	Susceptance [ ]	self-induction [ ]	Phase $\delta$ [ ]
Value								
Uncertainty								

$I_{DC}(V_{DC})$  linear coefficient : .....  $I_{AC}(V_{AC})$  linear coefficient: .....

Self-induction of measured coil is  $L =$  ..... +/- .....