



2nd year ENSCL

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SUBJECT N°8

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**Suspension plasma spraying of ZrO_2 stabilized with Y_2O_3 , CeO_2
or Sc_2O_3**

1. Realization of the thermal barrier coatings (TBC) of ZrO_2 stabilized with the oxides like Y_2O_3 , CeO_2 ou Sc_2O_3 by using plasma spraying and their characterizations.
2. Coatings deposition with of suspension plasma spraying.
 - a. Suspensions formulation.
 - b. Optimizing of operational spray parameters.